# Safety Data Sheet

Version OSHA-2.0 Date of issue :2019.10.28 Revision Date:2021.09.27

1.1– Product identifier		
Product name :	Gre	een ink for KIRARICH (WKS18–G)
1.2 – Relevant identified u	uses of the substance or	mixture and uses advised against
<ul> <li>Use of the substance</li> </ul>		riting implement
	tions on use : No infor	
Uses Advised Against		mation available
1.3 – Details of the suplie		
<ul> <li>Manufacture</li> </ul>	: ZEBRA CO., LTD.	
<b>T</b> E1		icho Shinjuku-ku Tokyo JAPAN
TEL	: +81-3-3268-1193	
FAX	: +81-3-3268-1197	
1.4 – Emergency telephor	e number	
•Manufacture	: +81-3-3268-1193	
		r is available only during office hours: 9 a.m. to half past 5 p.m.
	(Japan time)	
. Hazards identification		
Classification of the chem	iical in accordance with p	aragraph (d) of §1910.1200
2.1 Classification of the sul		
Glassification of the sul		
Physical bezarda		
Physical hazards		Not almosting
Flammable liquids		Not classified
Flammable liquids Pyrophoric liquids		Not classified
Flammable liquids Pyrophoric liquids Self-heating mixtures		Not classified Not classified
Flammable liquids Pyrophoric liquids Self-heating mixtures Corrosive to metals		Not classified
Flammable liquids Pyrophoric liquids Self-heating mixtures Corrosive to metals Health hazards		Not classified Not classified Not classified
Flammable liquids Pyrophoric liquids Self-heating mixtures Corrosive to metals <b>Health hazards</b> Acute toxicity-Oral		Not classified Not classified Not classified Not classified
Flammable liquids Pyrophoric liquids Self-heating mixtures Corrosive to metals <b>Health hazards</b> Acute toxicity-Oral Acute toxicity-Dermal		Not classified Not classified Not classified Not classified Not classified
Flammable liquids Pyrophoric liquids Self-heating mixtures Corrosive to metals <b>Health hazards</b> Acute toxicity-Oral		Not classified Not classified Not classified Not classified
Flammable liquids Pyrophoric liquids Self-heating mixtures Corrosive to metals <b>Health hazards</b> Acute toxicity-Oral Acute toxicity-Dermal	on:vapour	Not classified Not classified Not classified Not classified Not classified
Flammable liquids Pyrophoric liquids Self-heating mixtures Corrosive to metals <b>Health hazards</b> Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalatio	on : vapour <u>oxicity:</u> 30.1%	Not classified Not classified Not classified Not classified Not classified Not classified
Flammable liquids Pyrophoric liquids Self-heating mixtures Corrosive to metals <b>Health hazards</b> Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalation <u>Unknown Acute Oral Tow</u> Unknown Acute Derma	on : vapour <u>oxicity:</u> 30.1% <u>L Toxicity:</u> 30.3%	Not classified Not classified Not classified Not classified Not classified Not classified of the mixture consists of ingredient(s) of unknown acute toxicity
Flammable liquids Pyrophoric liquids Self-heating mixtures Corrosive to metals <b>Health hazards</b> Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalation <u>Unknown Acute Oral Tow</u> Unknown Acute Derma Unknown Acute Inhalation	on : vapour <u>oxicity:</u> 30.1% <u>I Toxicity:</u> 30.3% ion : vapour Toxicity:48.3%	Not classified Not classified Not classified Not classified Not classified Not classified of the mixture consists of ingredient(s) of unknown acute toxicity of the mixture consists of ingredient(s) of unknown acute toxicity of the mixture consists of ingredient(s) of unknown acute toxicity
Flammable liquids Pyrophoric liquids Self-heating mixtures Corrosive to metals <b>Health hazards</b> Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalation <u>Unknown Acute Oral Tow</u> <u>Unknown Acute Derma</u> <u>Unknown Acute Inhalat</u> Skin corrosion / irritation	on : vapour <u>oxicity:</u> 30.1% <u>I Toxicity:</u> 30.3% ion : vapour Toxicity:48.3% on	Not classified Not classified Not classified Not classified Not classified Not classified of the mixture consists of ingredient(s) of unknown acute toxicity of the mixture consists of ingredient(s) of unknown acute toxicity of the mixture consists of ingredient(s) of unknown acute toxicity Not classified
Flammable liquids Pyrophoric liquids Self-heating mixtures Corrosive to metals <b>Health hazards</b> Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalation <u>Unknown Acute Oral Tow</u> <u>Unknown Acute Derma</u> <u>Unknown Acute Inhalat</u> Skin corrosion / irritati Serious eye damage /	on:vapour <u>oxicity:</u> 30.1% <u>Toxicity:</u> 30.3% <u>ion:vapour Toxicity:</u> 48.3% on eye irritation	Not classified Not classified Not classified Not classified Not classified Not classified of the mixture consists of ingredient(s) of unknown acute toxicity of the mixture consists of ingredient(s) of unknown acute toxicity of the mixture consists of ingredient(s) of unknown acute toxicity Not classified Category 2
Flammable liquids Pyrophoric liquids Self-heating mixtures Corrosive to metals <b>Health hazards</b> Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalatie <u>Unknown Acute Oral Tr</u> <u>Unknown Acute Inhalat</u> Skin corrosion / irritati Serious eye damage / Respiratory or skin ser	on:vapour <u>oxicity:</u> 30.1% <u>I Toxicity:</u> 30.3% <u>ion:vapour Toxicity:</u> 48.3% ion eye irritation isitization	Not classified Not classified Not classified Not classified Not classified Not classified of the mixture consists of ingredient(s) of unknown acute toxicity of the mixture consists of ingredient(s) of unknown acute toxicity of the mixture consists of ingredient(s) of unknown acute toxicity of the mixture consists of ingredient(s) of unknown acute toxicity Not classified Category 2 Not classified / Category 1
Flammable liquids Pyrophoric liquids Self-heating mixtures Corrosive to metals <b>Health hazards</b> Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalation <u>Unknown Acute Oral Tr</u> <u>Unknown Acute Derma</u> <u>Unknown Acute Inhalat</u> Skin corrosion / irritati Serious eye damage / Respiratory or skin ser Germ cell mutagenicity	on:vapour <u>oxicity:</u> 30.1% <u>I Toxicity:</u> 30.3% <u>ion:vapour Toxicity:</u> 48.3% ion eye irritation isitization	Not classified Not classified Not classified Not classified Not classified Not classified of the mixture consists of ingredient(s) of unknown acute toxicity of the mixture consists of ingredient(s) of unknown acute toxicity of the mixture consists of ingredient(s) of unknown acute toxicity Not classified Category 2 Not classified Category 1 Not classified
Flammable liquids Pyrophoric liquids Self-heating mixtures Corrosive to metals <b>Health hazards</b> Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalation <u>Unknown Acute Oral Tr</u> <u>Unknown Acute Derma</u> <u>Unknown Acute Inhalat</u> Skin corrosion / irritati Serious eye damage / Respiratory or skin ser Germ cell mutagenicity	on:vapour <u>oxicity:</u> 30.1% <u>I Toxicity:</u> 30.3% <u>ion:vapour Toxicity:</u> 48.3% ion eye irritation isitization	Not classified Not classified Not classified Not classified Not classified Not classified of the mixture consists of ingredient(s) of unknown acute toxicity of the mixture consists of ingredient(s) of unknown acute toxicity of the mixture consists of ingredient(s) of unknown acute toxicity Not classified Category 2 Not classified Not classified Not classified
Flammable liquids Pyrophoric liquids Self-heating mixtures Corrosive to metals <b>Health hazards</b> Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalation <u>Unknown Acute Oral Tru</u> <u>Unknown Acute Derma</u> <u>Unknown Acute Inhalat</u> Skin corrosion / irritati Serious eye damage / Respiratory or skin ser Germ cell mutagenicity Carcinogenicity Reproductive toxicity	on:vapour <u>oxicity:</u> 30.1% <u>I Toxicity:</u> 30.3% ion:vapour Toxicity:48.3% on eye irritation sitization	Not classified Not classified Not classified Not classified Not classified of the mixture consists of ingredient(s) of unknown acute toxicity of the mixture consists of ingredient(s) of unknown acute toxicity of the mixture consists of ingredient(s) of unknown acute toxicity of the mixture consists of ingredient(s) of unknown acute toxicity Not classified Category 2 Not classified Not classified Not classified Not classified Not classified Not classified
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# Hazard(s) not otherwise classified (HNOC)

None known.

# 2.2 Label elements

Pictograms or Symbol



Signal Word Warning

#### Hazard statement

•Causes serious eye irritation

•May cause an allergic skin reaction

# **Precautionary Statements**

#### Prevention

- Avoid breathing dust/vapours
- •Wash hand throughly after handling
- ·Contaminated work clothing should not be allowed out of the workplace
- •Wear protective gloves/protective clothing/eye protection/face protection

#### Response

•IF ON SKIN: Wash with soap and water

- If skin irritation or a rash occurs: Get medical advice/attention
- •IF IN EYES: Rinse continuously with water for several minutes.
- Remove contact lenses if present and easy to do . Continue rinsing
- •If eye irritation persists : Get medical advice/attention
- •Take off contaminated clothing and wash it before reuse.

# Storage

#### Disposal

•Dispose of contents/container to in accordance with local government regulation.

# 3. Composition/information on ingredients

#### 3.1 Substance : Not applicable

#### 3.2 Mixture

#### Component and Amount

Component	Amount	CAS No.	
Pigments	1-5%	Trade Secret	
Dyes	< 1 %	Trade Secret	
Water	70-75%	7732-18-5	
Glycerol	15-20%	56-81-5	
Resins	5-10%	Trade Secret	
Additives	< 1 %	Trade Secret	

#### Additional information

The specific chemical identify and exact percentages of composition of the mixture has been withheld as a Trade Secrets in accordance with the provisions of paragraph (i) of § 1910.1200 of 29 CFR1910.1200 .

#### 4. First-aid measures

# 4.1 Description of First-aid measures

After inhalation:

Call a doctor/physician if you feel unwell.

Remove victim to fresh air and keep at rest in a position comfortable for breathing.

#### After skin contact:

Wash with soap and water

Call a doctor/physician if you feel unwell.

If skin irritation or a rash occurs: Get medical advice/attention

Take off contaminated clothing and wash it before reuse.

#### After eye contact:

Rinse continuously with water for several minutes.

Remove contact lenses if present and easy to do . Continue rinsing If eye irritation persists : Get medical advice/attention

After ingestion:

Call a doctor/physician if you feel unwell.

Protection of the person who takes first aid

Nothing in particular.

4.2 Most important symptoms and effects, both acute and delayed

No significant reaction of the human body to this product known. 4.3 Indication of any immediate medical attention and special treatment needed

Therer is no specific and immedate treatment, but should consult a doctor.

# 5. Fire-fighting measures

# Suitable Extinguishing media

Carbon dioxide, dry chemical powder, water fog, foam

#### Prohibition extinguishing media for safety reason

# Water spray (straight)

Specific hazards

This product is not combustible.But evaporated residue is combustible.

May produce toxic fumes if burning.

#### Specific fire fighting procedures

If safe to do so, move undamaged containers from the fire area.

If can't move the container , cool containers and surrounding with spray water.

Cool containers with large quantities of water until well after extinguished the fire.

# Special protective equipment for fire-fighters

Fire-fighting should be performed from the windward side.

Respiratory protection, and other suitable protective equipment

Special protective equipment for fire-fighters

# 6. Accidental release measures

#### Suitable Extinguishing media

Carbon dioxide, dry chemical powder, water fog, foam

#### Prohibition extinguishing media for safety reason

Water spray (straight)

#### Specific hazards

This product is not combustible.But evaporated residue is combustible.

May produce toxic fumes if burning.

# Specific fire fighting procedures

If safe to do so, move undamaged containers from the fire area.

If can't move the container , cool containers and surrounding with spray water.

 $\label{eq:cool} \mbox{Cool containers with large quantities of water until well after extinguished the fire. }$ 

# Special protective equipment for fire-fighters

Fire-fighting should be performed from the windward side.

Respiratory protection, and other suitable protective equipment

Reference to other sections

Refer to section 8 and 13.

# 7. Handling and storage

# 7.1 Precautions for safe handling

# **Technical measures** Do suitable equipment measures and use suitable protection that refer to "8. Exposure control/ personal protection". Local exhaust ventilation and general ventilation Use local exhaust ventilation and general ventilation that refer to "8. Exposure control/ personal protection". Caution When handling do not use high temperature articles, spark and fire. Handle container with care, do not make it turn over, drop, give impact and drag. Do not breathe, contact and swallow. Maintain air concentrations below exposure limit using exhaust ventilation. Do not eat, drink or smoke when using this product. Wash hand throughly after handling. Use only outdoors or in awell-ventilated area. Avoid release to the environment. Avoid contact Refer to section 10 about stability and reactivity. 7.2 Conditions for safe storage, including incompatabilities Storage

#### Incompatible materials

Refer to section 10 about stability and reactivity.

#### Storage condition

Store away from heat/sparks/open flames - No smoking

Store in a well ventilated place. Keep cool and container tightly closed.

Store locked up.

The Containers

Use the container that our company filled up when ship products

7.3 Specific end uses

Not applicable

#### 8. Exposure control/ personal protection

#### 8.1 .1 Control parameters Exposure limit values

Chemical name	OSHA Permissible Exposure Limits (PEL)	ACGIH TLV-TWA
Glycerol	Not established	10mg/m <sup>3</sup> (mist, TWA, 2009)

# 8.2 Exposure controls

#### Equipment measures

Put up local exhaust ventilation.Use explosion-proof electrical/ventilating/lighting.

Take precautionary measures against static discharge.

Put up emergency eyewash and shower in case of storage or handling about this product.

# Protection

#### Respiratory protection

If necessary use suitable respiratory protection.

Hand protection

Use suitable protective gloves.

# Eye protection

Use suitable eye protection. Skin/body protection

If necessary use suitable face protection.

#### Hygiene measures

Do not eat ,drink or smoke when using this product. Wash thoroughly after handling.

O Dhysical and chamical properties	
9.Physical and chemical properties Appearance	Green Liquid
Odour	Peculiar odour
Odour threshold	No data available
pН	No data available
Evaporation rate	No data available
Flammability	No data available
Melting point / Coagulating point	No data available
Boiling point	No data available
Flash point	No data available
Explosive limit UEL	No data available
Explosive limit LEL	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Water solubility	Soluble in water.
Partition coefficient n-octanol/water	No data available
Ignition point	No data available
Decomposition point	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidising properties	No data available
Other information	
No data available	
10. Stability and reactivity Chemical stability Materials to Avoid	This product is stable in normal condition. No data available
Chemical stability	•
Chemical stability Materials to Avoid Conditions to avoid Incompatible materials Hazardous decomposition products	No data available No data available No data available
Chemical stability Materials to Avoid Conditions to avoid Incompatible materials Hazardous decomposition products	No data available No data available No data available No data available
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Chemical stability Materials to Avoid Conditions to avoid Incompatible materials Hazardous decomposition products 11. Toxicological information Acute toxicity-Oral Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalation : vapour Skin corrosion / irritation Serious eye damage / eye irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity(Singel e Specific target organ toxicity(Repeate Aspiration hazard	No data available No data available No data available No data available No data available Not classified Not classified Not classified Category 2 Not classified Not classified
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Chemical stability Materials to Avoid Conditions to avoid Incompatible materials Hazardous decomposition products 11. Toxicological information Acute toxicity—Oral Acute toxicity—Oral Acute toxicity—Inhalation : vapour Skin corrosion / irritation Serious eye damage / eye irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity(Singel e Specific target organ toxicity(Repeater Aspiration hazard 12. Ecological information Hazardous to the aquatic environment Hazardous to the aquatic environment	No data available No data available No data available No data available No data available Not classified Not classified Not classified Category 2 Not classified Not classified

Disposal must be made a	ccording to official regulation	5.
Avoid release to the envi	ronment.	
Contaminated container an	d packaging	
Do not flush into the sew	ver.	
Remove all contents whe	en you dispose of empty cont	ainers.
. Transport information		
4.2 UN proper shipping nan		
4.3 Transport hazard class	(es)	
4.4 Packaging group		
nternational regulation		
IMDG(Maritime transport		_
UN No.	Not applicable	
Class	-	
Packing Group	-	
Marine Pollutant	-	
Shipping name	-	
ICAO/IATA(Air transpo	ort)	
	Not applicable	
UN No.	Not applicable	
UN No. Class	–	
Class	–	
	- - -	
Class Packing Group Shipping name ADR/RID(Land transport)	)	
Class Packing Group Shipping name ADR/RID(Land transport) UN No.	- - -	
Class Packing Group Shipping name ADR/RID(Land transport) UN No. Class	)	
Class Packing Group Shipping name ADR/RID(Land transport) UN No. Class Packing Group	)	_
Class Packing Group Shipping name ADR/RID(Land transport) UN No. Class	)	
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Class Packing Group Shipping name ADR/RID(Land transport) UN No. Class Packing Group Shipping name I4.5 Environmental hazards Hazardous to the aqua Hazardous to the aqua	- - - - ) Not applicable - - - atic environment(acute) atic environment(chronic)	Not classified Not classified
Class Packing Group Shipping name ADR/RID(Land transport) UN No. Class Packing Group Shipping name 44.5 Environmental hazards Hazardous to the aqua Hazardous to the aqua	- - - - ) Not applicable - - - atic environment(acute) atic environment(chronic)	
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Class Packing Group Shipping name ADR/RID(Land transport) UN No. Class Packing Group Shipping name 4.5 Environmental hazards Hazardous to the aqua Hazardous to the aqua	- - - - - - - atic environment(acute) atic environment(chronic) <b>r user</b>	Not classified
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Class Packing Group Shipping name ADR/RID(Land transport) UN No. Class Packing Group Shipping name I4.5 Environmental hazards Hazardous to the aqua Hazardous to the aqua Hazard	- - - - - - - atic environment(acute) atic environment(chronic) - user - - - - - - - - - - - - - - - - - - -	Not classified
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Class Packing Group Shipping name ADR/RID(Land transport) UN No. Class Packing Group Shipping name I4.5 Environmental hazards Hazardous to the aqua Hazardous to the aqua Hazardous to the aqua Hazardous to the aqua Bacal precautions for Not applicable. Special precautions Prevent from falling, sturr Avoid acute vibration and If there are some indicati take emergency measure Avoid transport with food	- - - - - - - atic environment(acute) atic environment(chronic) - user - - - - - - - - - - - - - - - - - - -	Not classified on the container loading like acute leak in transporting, once to disaster management agency.
Class Packing Group Shipping name ADR/RID(Land transport) UN No. Class Packing Group Shipping name I4.5 Environmental hazards Hazardous to the aqua Hazardous to the aqua Hazardous to the aqua Hazardous to the aqua Bacal precautions for Not applicable. Special precautions Prevent from falling, sturr Avoid acute vibration and If there are some indicati take emergency measure Avoid transport with food	- - - - - - - - atic environment(acute) atic environment(chronic) - user - - - - - - - - - - - - - - - - - - -	Not classified on the container loading like acute leak in transporting, once to disaster management agency.
Class Packing Group Shipping name ADR/RID(Land transport) UN No. Class Packing Group Shipping name I4.5 Environmental hazards Hazardous to the aqua Hazardous to the aqua Hazard	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>-</li> <li>-</li> <li>atic environment(acute)</li> <li>atic environment(chronic)</li> <li>r user</li> <li>abling and doing damage when the second friction for container.</li> <li>ons of hazard in transporting s and report the accident at one of the second sec</li></ul>	Not classified on the container loading like acute leak in transporting, once to disaster management agency.
Class Packing Group Shipping name ADR/RID(Land transport) UN No. Class Packing Group Shipping name I4.5 Environmental hazards Hazardous to the aqua Hazardous to the aqua Hazard	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>-</li> <li>-</li> <li>atic environment(acute)</li> <li>atic environment(chronic)</li> <li>r user</li> <li>abling and doing damage when the second friction for container.</li> <li>ons of hazard in transporting s and report the accident at one of the second sec</li></ul>	Not classified on the container loading like acute leak in transporting, once to disaster management agency.

In this sheet, the contents of ingredients and the value of physical and chemical properties are not guaranteed performance.

The information contained in this sheet is based on the data available at now.

But this shall not constitute a guarantee for any specific or classification.

Please be alert to handling this product because chemicals shall have unknown hazards.

This sheet may be revised when we get new information.

The information is assumed in the case of large-scale handling on business operations.

They cannot be always applicable to general use of writing instruments.

Revision

2019/10/28First version2021/9/27Second version

- 7 -

# Safety Data Sheet

Version OSHA-2.0 Date of issue :2019.10.28 Revision Date:2021.09.27

1.1- Product identifier	Pink ink for KIRARICH (WKS18-P)
Product name :	
<ul> <li>Use of the substance/m</li> </ul>	es of the substance or mixture and uses advised against ixture : Ink for writing implement
•Recommended restriction	
•Uses Advised Against	: No information available
1.3 – Details of the suplier of	of the SDS
<ul> <li>Manufacture</li> </ul>	: ZEBRA CO., LTD.
	2-9 Higashi-gokencho Shinjuku-ku Tokyo JAPAN
TEL	: +81-3-3268-1193
FAX	: +81-3-3268-1197
1.4 – Emergency telephone	number
<ul> <li>Manufacture</li> </ul>	: +81-3-3268-1193
	This phone number is available only during office hours: 9 a.m. to half past 5 p.m.
	(Japan time)
. Hazards identification	
Classification of the chemica	al in accordance with paragraph (d) of §1910.1200
2.1 Classification of the subst	ance or mixture
Physical hazards	
<u>-</u>	
Flammable liquids	Not classified
Pyrophoric liquids	Not classified
Pyrophoric liquids Self-heating mixtures	Not classified Not classified
Pyrophoric liquids Self-heating mixtures Corrosive to metals	Not classified
Pyrophoric liquids Self-heating mixtures Corrosive to metals <b>Health hazards</b>	Not classified Not classified Not classified
Pyrophoric liquids Self-heating mixtures Corrosive to metals <b>Health hazards</b> Acute toxicity-Oral	Not classified Not classified Not classified Not classified
Pyrophoric liquids Self-heating mixtures Corrosive to metals <b>Health hazards</b> Acute toxicity-Oral Acute toxicity-Dermal	Not classified Not classified Not classified Not classified Not classified
Pyrophoric liquids Self-heating mixtures Corrosive to metals <b>Health hazards</b> Acute toxicity-Oral	Not classified Not classified Not classified Not classified Not classified
Pyrophoric liquids Self-heating mixtures Corrosive to metals <b>Health hazards</b> Acute toxicity-Oral Acute toxicity-Dermal	Not classified Not classified Not classified Not classified Not classified Not classified
Pyrophoric liquids Self-heating mixtures Corrosive to metals <b>Health hazards</b> Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalation	Not classified Not classified Not classified Not classified Not classified Not classified Not classified Not classified Not classified Not classified
Pyrophoric liquids Self-heating mixtures Corrosive to metals <b>Health hazards</b> Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalation <u>Unknown Acute Oral Toxi</u> <u>Unknown Acute Dermal T</u>	Not classified         Vapour         Vapour         Not classified         Vapour         Vapour         Not classified         Vapour         Vapour         Not classified         Not classified         Vapour         Not classified         Not classified         Vapour         Not classified         Not classified         Not classified <t< td=""></t<>
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Pyrophoric liquids Self-heating mixtures Corrosive to metals <b>Health hazards</b> Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalation <u>Unknown Acute Oral Toxi</u> <u>Unknown Acute Dermal Tow</u>	Not classified         Vapour         Not classified         40.1% of the mixture consists of ingredient(s) of unknown acute toxicity         exicity:         40.3% of the mixture consists of ingredient(s) of unknown acute toxicity         55.3% of the mixture consists of ingredient(s) of unknown acute toxicity         Not classified
Pyrophoric liquids Self-heating mixtures Corrosive to metals <b>Health hazards</b> Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalation <u>Unknown Acute Oral Toxi</u> <u>Unknown Acute Dermal Towns</u> Unknown Acute Inhalation Skin corrosion / irritation	Not classified         Vapour         Not classified         vapour         Vot classified         vapour         40.1% of the mixture consists of ingredient(s) of unknown acute toxicity         vapour Toxicity:         40.3% of the mixture consists of ingredient(s) of unknown acute toxicity         stable         Not classified         Not classified         Not classified         Not classified         Not classified         Not classified
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Pyrophoric liquids Self-heating mixtures Corrosive to metals <b>Health hazards</b> Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalation <u>Unknown Acute Oral Toxi</u> <u>Unknown Acute Dermal T</u> <u>Unknown Acute Inhalation</u> Skin corrosion / irritation Serious eye damage / eye Respiratory or skin sensit	Not classified         vapour         Not classified         vapour         Vot classified         vapour Toxicity:         40.1% of the mixture consists of ingredient(s) of unknown acute toxicity         vapour Toxicity:         55.3% of the mixture consists of ingredient(s) of unknown acute toxicity         Not classified
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Pyrophoric liquids Self-heating mixtures Corrosive to metals <b>Health hazards</b> Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalation <u>Unknown Acute Oral Toxi</u> <u>Unknown Acute Dermal T</u> <u>Unknown Acute Inhalation</u> Skin corrosion / irritation Serious eye damage / eye Respiratory or skin sensit Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ tox	Not classified         vapour         40.1% of the mixture consists of ingredient(s) of unknown acute toxicity         vapour Toxicity:         40.3% of the mixture consists of ingredient(s) of unknown acute toxicity         :vapour Toxicity:         55.3% of the mixture consists of ingredient(s) of unknown acute toxicity         Not classified         e irritation         Not classified         Not classified
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Pyrophoric liquids Self-heating mixtures Corrosive to metals Health hazards Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalation <u>Unknown Acute Oral Toxi</u> <u>Unknown Acute Dermal Tr</u> <u>Unknown Acute Dermal Tr</u> <u>Unknown Acute Inhalation</u> Skin corrosion / irritation Serious eye damage / eye Respiratory or skin sensit Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ tox Specific target organ tox Aspiration hazard	Not classified         vapour         Not classified         vapour Toxicity:         40.1% of the mixture consists of ingredient(s) of unknown acute toxicity         vapour Toxicity:         55.3% of the mixture consists of ingredient(s) of unknown acute toxicity         vapour Toxicity:         55.3% of the mixture consists of ingredient(s) of unknown acute toxicity         vapour Toxicity:         vapour Toxicity:         Solution         Not classified         Not classified
Pyrophoric liquids Self-heating mixtures Corrosive to metals <b>Health hazards</b> Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalation <u>Unknown Acute Oral Toxi</u> <u>Unknown Acute Dermal Tr</u> <u>Unknown Acute Dermal Tr</u> <u>Unknown Acute Inhalation</u> Skin corrosion / irritation Serious eye damage / eye Respiratory or skin sensit Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ tox Specific target organ tox	Not classified         vapour         Not classified         vapour Toxicity:         40.1% of the mixture consists of ingredient(s) of unknown acute toxicity         vapour Toxicity:         55.3% of the mixture consists of ingredient(s) of unknown acute toxicity         vapour Toxicity:         55.3% of the mixture consists of ingredient(s) of unknown acute toxicity         vapour Toxicity:         vapour Toxicity:         Solution         Not classified         Not classified

#### Hazard(s) not otherwise classified (HNOC)

None known.

# 2.2 Label elements

Pictograms or Symbol



Signal Word Warning

Hazard statement

May cause an allergic skin reaction

# Precautionary Statements

Prevention

Avoid breathing dust/vapours

- ·Contaminated work clothing should not be allowed out of the workplace
- •Wear protective gloves/protective clothing/eye protection/face protection

Response

•IF ON SKIN: Wash with soap and water

- If skin irritation or a rash occurs: Get medical advice/attention
- •Take off contaminated clothing and wash it before reuse.

Storage

#### Disposal

•Dispose of contents/container to in accordance with local government regulation.

#### 3. Composition/information on ingredients

3.1 Substance : Not applicable

# 3.2 Mixture

Component	Amount	CAS No.	
Pigments	1-5%	Trade Secret	
Dyes	< 1 %	Trade Secret	
Water	65-70%	7732-18-5	
Glycerol	5-10%	56-81-5	
Resins	10-15%	Trade Secret	
Additives	10-15%	Trade Secret	

#### Additional information

The specific chemical identify and exact percentages of composition of the mixture has been withheld as a Trade Secrets in accordance with the provisions of paragraph (i) of § 1910.1200 of 29 CFR1910.1200.

# 4. First-aid measures

#### 4.1 Description of First-aid measures

# After inhalation:

Call a doctor/physician if you feel unwell.

Remove victim to fresh air and keep at rest in a position comfortable for breathing.

# After skin contact:

Wash with soap and water

Call a doctor/physician if you feel unwell.

If skin irritation or a rash occurs: Get medical advice/attention

Take off contaminated clothing and wash it before reuse.

# After eye contact:

Rinse continuously with water for several minutes.

Remove contact lenses if present and easy to do . Continue rinsing If eye irritation persists : Get medical advice/attention

# After ingestion:

Call a doctor/physician if you feel unwell.

Protection of the person who takes first aid

Nothing in particular.

**4.2 Most important symptoms and effects, both acute and delayed** No significant reaction of the human body to this product known.

**4.3 Indication of any immediate medical attention and special treatment needed** Therer is no specific and immedate treatment, but should consult a doctor.

#### 5. Fire-fighting measures

Suitable Extinguishing media

Carbon dioxide, dry chemical powder, water fog, foam

**Prohibition extinguishing media for safety reason** Water spray (straight)

# Specific hazards

This product is not combustible.But evaporated residue is combustible.

May produce toxic fumes if burning.

# Specific fire fighting procedures

If safe to do so, move undamaged containers from the fire area.

If can't move the container , cool containers and surrounding with spray water.

Cool containers with large quantities of water until well after extinguished the fire.

# Special protective equipment for fire-fighters

Fire-fighting should be performed from the windward side.

Respiratory protection, and other suitable protective equipment

Special protective equipment for fire-fighters

#### 6. Accidental release measures

#### Suitable Extinguishing media

Carbon dioxide, dry chemical powder, water fog, foam

#### Prohibition extinguishing media for safety reason

#### Water spray (straight)

### Specific hazards

This product is not combustible.But evaporated residue is combustible.

May produce toxic fumes if burning.

#### Specific fire fighting procedures

If safe to do so, move undamaged containers from the fire area.

If can't move the container , cool containers and surrounding with spray water.

Cool containers with large quantities of water until well after extinguished the fire.

#### Special protective equipment for fire-fighters

Fire-fighting should be performed from the windward side.

Respiratory protection, and other suitable protective equipment

# Reference to other sections

Refer to section 8 and 13.

#### 7. Handling and storage

#### 7.1 Precautions for safe handling

Technical measures

Do suitable equipment measures and use suitable protection that refer to

"8. Exposure control/ personal protection".

Local exhaust ventilation and general ventilation

Use local exhaust ventilation and general ventilation that refer to

"8. Exposure control/ personal protection".

# Caution

When handling do not use high temperature articles, spark and fire.

Handle container with care, do not make it turn over, drop, give impact and drag.

Do not breathe, contact and swallow.

Maintain air concentrations below exposure limit using exhaust ventilation.

Do not eat, drink or smoke when using this product.

Wash hand throughly after handling.

Use only outdoors or in awell-ventilated area.

Avoid release to the environment.

#### Avoid contact

Refer to section 10 about stability and reactivity.

# 7.2 Conditions for safe storage, including incompatabilities

#### Storage

# Incompatible materials

Refer to section 10 about stability and reactivity.

#### Storage condition

Store away from heat/sparks/open flames - No smoking

Store in a well ventilated place. Keep cool and container tightly closed.

Store locked up.

The Containers

Use the container that our company filled up when ship products

7.3 Specific end uses

Not applicable

#### 8. Exposure control/ personal protection

# 8.1 .1 Control parameters

Exposure limit values

Chemical name	OSHA Permissible Exposure Limits (PEL)	ACGIH TLV-TWA
Glycerol	Not established	10mg/m³ (mist, TWA, 2009)

#### 8.2 Exposure controls

#### Equipment measures

Put up local exhaust ventilation.Use explosion-proof electrical/ventilating/lighting.

Take precautionary measures against static discharge.

Put up emergency eyewash and shower in case of storage or handling about this product.

#### Protection

#### **Respiratory protection**

If necessary use suitable respiratory protection.

#### Hand protection

Use suitable protective gloves.

#### Eye protection

Use suitable eye protection.

# Skin/body protection

If necessary use suitable face protection.

Hygiene measures

Do not eat ,drink or smoke when using this product. Wash thoroughly after handling.

9.Physical and chemical properties
Appearance Pink Liquid
Odour Peculiar odour
Odour threshold No data available

Pink ink for KIRARICH (WKST8-P)		2
рH	No data available	
Evaporation rate	No data available	
Flammability	No data available	
Melting point / Coagulating point	No data available	
Boiling point	No data available	
Flash point	No data available	
Explosive limit UEL	No data available	
Explosive limit LEL	No data available	
Vapour pressure	No data available	
Vapour density	No data available	
Relative density	No data available	
Water solubility	Soluble in water.	
Partition coefficient n-octanol/water	No data available	
Ignition point	No data available	

#### Explosive properties Oxidising properties Other information

**Decomposition point** 

Viscosity

No data available

# 10. Stability and reactivity

Chemical stability	This product is stable in normal condition.
Materials to Avoid	No data available
Conditions to avoid	No data available
Incompatible materials	No data available
Hazardous decomposition products	No data available

#### 11. Toxicological information

Acute toxicity-Oral	Not classified
Acute toxicity-Dermal	Not classified
· · · · · · · · · · · · · · · · · · ·	
Acute toxicity-Inhalation:vapour	Not classified
Skin corrosion / irritation	Not classified
Serious eye damage / eye irritation	Not classified
Respiratory or skin sensitization	Not classified/Category 1
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
Specific target organ toxicity(Singel exposure)	Not classified
Specific target organ toxicity(Repeated exposure)	Not classified
Aspiration hazard	Not classified

No data available

No data available

No data available

No data available

# 12. Ecological information

Hazardous to the aquatic environment(acute)	Not classified
Hazardous to the aquatic environment(chronic)	Not classified
Degradability	No data is available

**Bioaccumulative potential** 

# 13. Disposal considerations

# Waste treatment methods

Waste residues

Mobility in soil

Disposal must be made according to official regulations.

No data is available

No data is available

Avoid release to the environment.

Contaminated container and packaging

Do not flush into the sewer.

Remove all contents when you dispose of empty containers.

<ul> <li>14.3 Transport hazard class(es)</li> <li>14.4 Paokaging group International regulation IMDG(Maritime transport) <ul> <li>UN No.</li> <li>Not applicable</li> <li>Class</li> <li>Packing Group</li> <li>Marine Pollutant</li> <li>Shipping name</li> <li>ICAO/IATA(Air transport)</li> <li>UN No.</li> <li>Not applicable</li> <li>Class</li> <li>-</li> <li>Packing Group</li> <li>-</li> <li>ICAO/IATA(Air transport)</li> <li>UN No.</li> <li>Not applicable</li> <li>Class</li> <li>-</li> <li>Packing Group</li> <li>-</li> <li>ICAO/IATA(Air transport)</li> <li>UN No.</li> <li>Not applicable</li> <li>Class</li> <li>-</li> <li>Packing Group</li> <li>-</li> <li>ADR/RID(Land transport)</li> <li>UN No.</li> <li>Not applicable</li> <li>Class</li> <li>-</li> <li>Packing Group</li> <li>-</li> <li>Shipping name</li> <li>-</li> </ul> ADR/RID(Land transport) <ul> <li>UN No.</li> <li>Not applicable</li> <li>Class</li> <li>-</li> <li>Packing Group</li> <li>-</li> <li>Shipping name</li> <li>-</li> </ul> ADR/RID(Land transport) <ul> <li>UN No.</li> <li>Not applicable</li> <li>Class</li> <li>-</li> <li>Packing Group</li> <li>-</li> <li>Shipping name</li> <li>-</li> </ul> 14.5 Environmental hazards <ul> <li>Hazardous to the aquatic environment(acute)</li> <li>Not classified</li> <li>Hazardous to the aquatic environment(chronic)</li> <li>Not classified</li> <li>Hazardous to the aquatic environment(chronic)</li> <li>Not classified</li> <li>Hazardous to the aquatic environment(chronic)</li> <li>Not classified</li> <li>Hazardous to the aduatic environment(chronic)</li> <li>Not classified</li> <li>Hazardous to the aduatic environment(chronic)</li> <li>Not classified</li> <li>Hazardous to the aduatic environment(chronic)</li> <li>Not classified</li> <li>Hazardous to the aduation of ro container.</li> <li>If there are some indications of hazard in transporting like acute leak in transporting.</li> <li>take emergency measures and report the accident at once to disaster management agency.</li> <li>Avoid acute</li></ul></li></ul>	14.2 UN proper shipping nam		
International regulation IMDG (Maritime transport) UN No. Not applicable Class – Packing Group – Marine Pollutant – Shipping name – ICAO/IATA (Air transport) UN No. Not applicable Class – Packing Group – Shipping name – ADR/RID(Land transport) UN No. Not applicable Class – Packing Group – Shipping name – 14.5 Environmental hazards Hazardous to the aquatic environment(acute) Not classified Hazardous to the aquatic environment(chronic) Not classified Hazardous to the aquatic environment(chronic) Not classified Hazardous to the aquatic environment(chronic) Not classified Hazardous to the aquatic environment(acute) IN to classified Hazardous to the aquatic environment(chronic) Not classified Hazardous to the aquatic environment(chronic) Not classified Hazardous to the aquatic environment(chronic) IN to classified Hazardous to the aquatic environment(chronic) IN to classified Hazardous to the aquatic environment(chronic) Not classified Hazardous to the aquatic environment(chronic) IN to classified Hazardous to the aquatic environment (acute) IN to classified Hazardous to the aquatic environment (chronic) IN to classified Hazardous to the aquatic environment (acute) IN to classified Hazardous to the acute the IN to classified Hazardous to the acute the	•	es)	
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UN No.       Not applicable         Class       -         Packing Group       -         Marine Pollutant       -         Shipping name       -         ICAO/IATA (Air transport)       -         UN No.       Not applicable         Class       -         Packing Group       -         Shipping name       -         ADR/RID(Land transport)       -         UN No.       Not applicable         Class       -         Packing Group       -         Shipping name       -         ADR/RID(Land transport)       -         UN No.       Not applicable         Class       -         Packing Group       -         Shipping name       -         14.5 Environmental hazards       -         Hazardous to the aquatic environment(acute)       Not classified         Hazardous to the aquatic environment(chronic)       Not classified         14.5 Environmental hazards       -         Hazardous to the aquatic environment(chronic)       Not classified         14.6 Special precautions for user       Not applicable.         Special precautions       Frevent from falling, stumbling and doing damage when the container lo	International regulation		
Class – Packing Group – Marine Pollutant – Shipping name – ICAO/IATA(Air transport) UN No. Not applicable Class – Packing Group – Shipping name – ADR/RID(Land transport) UN No. Not applicable Class – Packing Group – Shipping name – 14.5 Environmental hazards Hazardous to the aquatic environment(acute) Not classified Hazardous to the aquatic environment(chronic) Not classified Hazardous to the aquatic environment. Fithere are some indications of hazard in transporting like acute leak in transporting, take emergency measures and report the accident at once to disaster management agency. Avoid transport with foods or feeds. Above regulations are not applied to transport of writing instruments filled with the ink. Follow all regulation in your country. 5. Regulatory information	IMDG(Maritime transport)		
Packing Group       -         Marine Pollutant       -         Shipping name       -         ICAO/IATA(Air transport)       -         UN No.       Not applicable         Class       -         Packing Group       -         Packing Group       -         Shipping name       -         ADR/RID(Land transport)       -         UN No.       Not applicable         Class       -         Packing Group       -         Shipping name       -         Packing Group       -         Shipping name       -         Hazardous to the aquatic environment(acute)       Not classified         Hazardous to the aquatic environment(chronic)       Not classified         Hazardous to the aquatic environment(chronic)       Not classified         Hazardous to the aquatic environment(chronic)       Not classified         14.6 Special procautions       Fuevent from falling, stumbling and doing damage when the container loading         Avoid acute vibration and friction for container.       If there are some indications of hazard in transporting like acute leak in transporting, take emergency measures and report the accident at once to disaster management agency.         Avoid ransport with foods or feeds.       Above regulations in your country.	UN No.	Not applicable	
Marine Pollutant       -         Shipping name       -         ICAO/IATA (Air transport)	Class	_	
Shipping name       -         ICAO/IATA(Air transport)       Not applicable         Class       -         Packing Group       -         Shipping name       -         ADR/RID(Land transport)	Packing Group	-	
ICAO/IATA(Air transport)         UN No.       Not applicable         Class       -         Packing Group       -         Shipping name       -         ADR/RID(Land transport)         UN No.       Not applicable         Class       -         Packing Group       -         Shipping name       -         ADR/RID(Land transport)         UN No.       Not applicable         Class       -         Packing Group       -         Shipping name       -         It.5 Environmental hazards         Hazardous to the aquatic environment(acute)       Not classified         Hazardous to the aquatic environment(chronic)       Not classified         Hazardous to the aquatic environment(acute)       Not classified </th <th>Marine Pollutant</th> <th>-</th> <th></th>	Marine Pollutant	-	
UN No.       Not applicable         Class       -         Packing Group       -         Shipping name       -         ADR/RID(Land transport)       -         UN No.       Not applicable         Class       -         Packing Group       -         Packing Group       -         Packing Group       -         Packing Group       -         Hazardous to the aquatic environment(acute)       Not classified         Hazardous to the aquatic environment(chronic)       Not classified         Hazardous to the aquatic environment(chronic)       Not classified         Hazardous to the aquatic environment(chronic)       Not classified         Hazardous to the aquatic environment.       Not applicable.         Special precautions for user       Not applicable.         Special precautions       Prevent from falling, stumbling and doing damage when the container loading         Avoid acute vibration and friction for container.       If there are some indications of hazard in transporting like acute leak in transporting, take emergency measures and report the accident at once to disaster management agency Avoid transport with foods or feeds.         Above regulations are not applied to transport of writing instruments filled with the ink.         Follow all regulation in your country.         Sto	Shipping name	-	
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Class       -         Packing Group       -         Shipping name       -         ADR/RID(Land transport)       -         UN No.       Not applicable         Class       -         Packing Group       -         Shipping name       -         14.5 Environmental hazards       -         Hazardous to the aquatic environment(acute)       Not classified         Hazardous to the aquatic environment(chronic)       Not classified         14.6 Special precautions for user       Not applicable.         Special precautions       -         Prevent from falling, stumbling and doing damage when the container loading         Avoid acute vibration and friction for container.       If there are some indications of hazard in transporting like acute leak in transporting, take emergency measures and report the accident at once to disaster management agency Avoid transport with foods or feeds.         Above regulations are not applied to transport of writing instruments filled with the ink.         Follow all regulation in your country.         Galaxies, Follow all regulation in your country.			
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Shipping name       -         ADR/RID(Land transport)	Packing Group	_	
ADR/RID(Land transport)         UN No.       Not applicable         Class       -         Packing Group       -         Shipping name       -         14.5 Environmental hazards       -         Hazardous to the aquatic environment(acute)       Not classified         Hazardous to the aquatic environment(chronic)       Not classified         14.6 Special precautions for user       Not applicable.         Special precautions       Prevent from falling, stumbling and doing damage when the container loading         Avoid acute vibration and friction for container.       If there are some indications of hazard in transporting like acute leak in transporting, take emergency measures and report the accident at once to disaster management agency Avoid transport with foods or feeds.         Above regulations are not applied to transport of writing instruments filled with the ink.         Follow all regulation in your country.         5. Regulatory information	Shipping name	_	
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UN No.       Not applicable         Class       -         Packing Group       -         Shipping name       -         14.5 Environmental hazards       -         Hazardous to the aquatic environment(acute)       Not classified         Hazardous to the aquatic environment(chronic)       Not classified         14.6 Special precautions for user       Not applicable.         Special precautions       Prevent from falling, stumbling and doing damage when the container loading         Avoid acute vibration and friction for container.       If there are some indications of hazard in transporting like acute leak in transporting, take emergency measures and report the accident at once to disaster management agency Avoid transport with foods or feeds.         Above regulations are not applied to transport of writing instruments filled with the ink.         Follow all regulation in your country.         5. Regulatory information	ADR/RID(Land transport)		
Class       -         Packing Group       -         Shipping name       - <b>14.5 Environmental hazards</b> -         Hazardous to the aquatic environment(acute)       Not classified         Hazardous to the aquatic environment(chronic)       Not classified <b>14.6 Special precautions for user</b> Not applicable. <b>Special precautions</b> Prevent from falling, stumbling and doing damage when the container loading         Avoid acute vibration and friction for container.       If there are some indications of hazard in transporting like acute leak in transporting, take emergency measures and report the accident at once to disaster management agency Avoid transport with foods or feeds.         Above regulations are not applied to transport of writing instruments filled with the ink.         Follow all regulation in your country. <b>5. Regulatory information</b>		Not applicable	
Shipping name       - <b>14.5 Environmental hazards</b> Hazardous to the aquatic environment(acute)       Not classified         Hazardous to the aquatic environment(chronic)       Not classified <b>14.6 Special precautions for user</b> Not applicable. <b>Special precautions</b> Prevent from falling, stumbling and doing damage when the container loading         Avoid acute vibration and friction for container.       If there are some indications of hazard in transporting like acute leak in transporting, take emergency measures and report the accident at once to disaster management agency Avoid transport with foods or feeds.         Above regulations are not applied to transport of writing instruments filled with the ink.         Follow all regulation in your country. <b>5. Regulatory information</b>	Class		
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<ul> <li>Prevent from falling, stumbling and doing damage when the container loading</li> <li>Avoid acute vibration and friction for container.</li> <li>If there are some indications of hazard in transporting like acute leak in transporting, take emergency measures and report the accident at once to disaster management agency Avoid transport with foods or feeds.</li> <li>Above regulations are not applied to transport of writing instruments filled with the ink.</li> <li>Follow all regulation in your country.</li> <li><b>Regulatory information</b></li> </ul>			
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Avoid transport with foods or feeds. Above regulations are not applied to transport of writing instruments filled with the ink. Follow all regulation in your country. <b>5. Regulatory information</b>			
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Follow all regulation in your country.	•		nstruments filled with the ink
6. Regulatory information	• •		
E-Very all as multiple in communities.	6. Regulatory information		

#### 16. Other information

In this sheet, the contents of ingredients and the value of physical and chemical properties are not guaranteed performance.

The information contained in this sheet is based on the data available at now.

But this shall not constitute a guarantee for any specific or classification.

Please be alert to handling this product because chemicals shall have unknown hazards.

This sheet may be revised when we get new information.

The information is assumed in the case of large-scale handling on business operations.

They cannot be always applicable to general use of writing instruments.

# Revision

2019/10/28First version2021/9/27Second version

# Safety Data Sheet

Version OSHA-2.0 Date of issue :2019.10.28 Revision Date:2021.09.27

<b>1.1- Product identifier</b> Product name :		ink for KIRARICH (WKS18-PU)
	•	ture and uses advised against
•Use of the substance/		
•Recommended restricti		
<ul> <li>Uses Advised Against</li> </ul>	: No informat	
1.3 - Details of the suplier	of the SDS	
<ul> <li>Manufacture</li> </ul>	: ZEBRA CO., LTD.	
	2–9 Higashi–gokencho	o Shinjuku-ku Tokyo JAPAN
TEL	: +81-3-3268-1193	
FAX	: +81-3-3268-1197	
1.4 – Emergency telephone	number	
<ul> <li>Manufacture</li> </ul>	: +81-3-3268-1193	
	This phone number is	available only during office hours: 9 a.m. to half past 5 p.m.
	(Japan time)	
Hazards identification		
Classification of the chemic	cal in accordance with para	graph (d) of §1910.1200
.1 Classification of the subs		
Physical hazards		
Flammable liquids		Not classified
Pyrophoric liquids		Not classified
Self-heating mixtures		Not classified
Self-heating mixtures Corrosive to metals		
Self-heating mixtures		Not classified
Self-heating mixtures Corrosive to metals <b>Health hazards</b> Acute toxicity-Oral		Not classified Not classified
Self-heating mixtures Corrosive to metals <b>Health hazards</b>	1: vapour	Not classified Not classified Not classified
Self-heating mixtures Corrosive to metals <b>Health hazards</b> Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalation		Not classified Not classified Not classified Not classified Not classified
Self-heating mixtures Corrosive to metals <b>Health hazards</b> Acute toxicity-Oral Acute toxicity-Dermal	<u>kicity:</u> 35.1% of	Not classified Not classified Not classified Not classified Not classified the mixture consists of ingredient(s) of unknown acute toxicity
Self-heating mixtures Corrosive to metals Health hazards Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalation Unknown Acute Oral Tox Unknown Acute Dermal	<u>xicity:</u> 35.1% of <u>Toxicity:</u> 35.5% of	Not classified Not classified Not classified Not classified Not classified the mixture consists of ingredient(s) of unknown acute toxicity the mixture consists of ingredient(s) of unknown acute toxicity
Self-heating mixtures Corrosive to metals Health hazards Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalation Unknown Acute Oral Tox Unknown Acute Dermal	<u>xicity:</u> 35.1% of <u>Toxicity:</u> 35.5% of <u>n:vapour Toxicity:</u> 40.5% of	Not classified Not classified Not classified Not classified Not classified the mixture consists of ingredient(s) of unknown acute toxicity the mixture consists of ingredient(s) of unknown acute toxicity the mixture consists of ingredient(s) of unknown acute toxicity Not classified
Self-heating mixtures Corrosive to metals Health hazards Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalation Unknown Acute Oral Tox Unknown Acute Dermal Unknown Acute Inhalatio Skin corrosion / irritatio Serious eye damage / ex	<u>kicity:</u> 35.1% of <u>Toxicity:</u> 35.5% of <u>n:vapour Toxicity:</u> 40.5% of n ye irritation	Not classified Not classified Not classified Not classified Not classified the mixture consists of ingredient(s) of unknown acute toxicity. the mixture consists of ingredient(s) of unknown acute toxicity. the mixture consists of ingredient(s) of unknown acute toxicity. Not classified Not classified
Self-heating mixtures Corrosive to metals Health hazards Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalation Unknown Acute Oral Tox Unknown Acute Dermal Unknown Acute Inhalatio Skin corrosion / irritatio Serious eye damage / en Respiratory or skin sens	<u>kicity:</u> 35.1% of <u>Toxicity:</u> 35.5% of <u>n:vapour Toxicity:</u> 40.5% of n ye irritation	Not classified Not classified Not classified Not classified Not classified the mixture consists of ingredient(s) of unknown acute toxicity. the mixture consists of ingredient(s) of unknown acute toxicity. the mixture consists of ingredient(s) of unknown acute toxicity. Not classified Not classified Not classified Not classified / Category 1
Self-heating mixtures Corrosive to metals Health hazards Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalation Unknown Acute Oral Tox Unknown Acute Dermal Unknown Acute Inhalatio Skin corrosion / irritatio Serious eye damage / en Respiratory or skin sens Germ cell mutagenicity	<u>kicity:</u> 35.1% of <u>Toxicity:</u> 35.5% of <u>n:vapour Toxicity:</u> 40.5% of n ye irritation	Not classified Not classified Not classified Not classified Not classified the mixture consists of ingredient(s) of unknown acute toxicity, the mixture consists of ingredient(s) of unknown acute toxicity, the mixture consists of ingredient(s) of unknown acute toxicity, the mixture consists of ingredient(s) of unknown acute toxicity, Not classified Not classified Not classified Category 1 Not classified
Self-heating mixtures Corrosive to metals Health hazards Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalation <u>Unknown Acute Oral Tox</u> <u>Unknown Acute Oral Tox</u> <u>Unknown Acute Inhalation</u> Skin corrosion / irritation Serious eye damage / er Respiratory or skin sens Germ cell mutagenicity Carcinogenicity	<u>kicity:</u> 35.1% of <u>Toxicity:</u> 35.5% of <u>n:vapour Toxicity:</u> 40.5% of n ye irritation	Not classified Not classified Not classified Not classified Not classified the mixture consists of ingredient(s) of unknown acute toxicity. the mixture consists of ingredient(s) of unknown acute toxicity. the mixture consists of ingredient(s) of unknown acute toxicity. Not classified Not classified Not classified Not classified Not classified Not classified Not classified
Self-heating mixtures Corrosive to metals Health hazards Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalation <u>Unknown Acute Oral Tox</u> <u>Unknown Acute Dermal</u> <u>Unknown Acute Inhalation</u> Skin corrosion / irritation Serious eye damage / er Respiratory or skin sens Germ cell mutagenicity Carcinogenicity Reproductive toxicity	<u>kicity:</u> 35.1% of <u>Toxicity:</u> 35.5% of <u>n : vapour Toxicity:</u> 40.5% of n ye irritation itization	Not classified Not classified Not classified Not classified Not classified the mixture consists of ingredient(s) of unknown acute toxicity, the mixture consists of ingredient(s) of unknown acute toxicity, the mixture consists of ingredient(s) of unknown acute toxicity. Not classified Not classified
Self-heating mixtures Corrosive to metals Health hazards Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalation <u>Unknown Acute Oral Tox</u> <u>Unknown Acute Dermal</u> <u>Unknown Acute Inhalation</u> Skin corrosion / irritation Serious eye damage / er Respiratory or skin sens Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ to	<u>vicity:</u> 35.1% of <u>Toxicity:</u> 35.5% of <u>n : vapour Toxicity:</u> 40.5% of n ye irritation itization itization	Not classified Not classified Not classified Not classified the mixture consists of ingredient(s) of unknown acute toxicity, the mixture consists of ingredient(s) of unknown acute toxicity, the mixture consists of ingredient(s) of unknown acute toxicity, the mixture consists of ingredient(s) of unknown acute toxicity, Not classified Not classified
Self-heating mixtures Corrosive to metals Health hazards Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalation <u>Unknown Acute Oral Too</u> <u>Unknown Acute Oral Too</u> <u>Unknown Acute Dermal</u> <u>Unknown Acute Inhalatio</u> Skin corrosion / irritatio Serious eye damage / er Respiratory or skin sens Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ to Specific target organ to	<u>kicity:</u> 35.1% of <u>Toxicity:</u> 35.5% of <u>n : vapour Toxicity:</u> 40.5% of n ye irritation itization	Not classified Not classified Not classified Not classified the mixture consists of ingredient(s) of unknown acute toxicity, the mixture consists of ingredient(s) of unknown acute toxicity, the mixture consists of ingredient(s) of unknown acute toxicity, the mixture consists of ingredient(s) of unknown acute toxicity, Not classified Not classified Not classified Category 1 Not classified Not classified
Self-heating mixtures Corrosive to metals Health hazards Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalation <u>Unknown Acute Oral Toy</u> <u>Unknown Acute Oral Toy</u> <u>Unknown Acute Inhalatio</u> Skin corrosion / irritatio Serious eye damage / ey Respiratory or skin sens Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ to Specific target organ to Aspiration hazard	<u>vicity:</u> 35.1% of <u>Toxicity:</u> 35.5% of <u>n : vapour Toxicity:</u> 40.5% of n ye irritation itization itization	Not classified Not classified Not classified Not classified the mixture consists of ingredient(s) of unknown acute toxicity, the mixture consists of ingredient(s) of unknown acute toxicity, the mixture consists of ingredient(s) of unknown acute toxicity, the mixture consists of ingredient(s) of unknown acute toxicity, Not classified Not classified
Self-heating mixtures Corrosive to metals Health hazards Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalation <u>Unknown Acute Oral Tox</u> <u>Unknown Acute Oral Tox</u> <u>Unknown Acute Dermal Tox</u> <u>Unknown Acute Inhalation</u> Skin corrosion / irritation Serious eye damage / ey Respiratory or skin sens Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ to Specific target organ to Aspiration hazard Environmental hazards	<u>vicity:</u> 35.1% of <u>Toxicity:</u> 35.5% of <u>n : vapour Toxicity:</u> 40.5% of n ye irritation itization vicity (Singel exposure) vicity(Repeated exposure)	Not classified Not classified Not classified Not classified the mixture consists of ingredient(s) of unknown acute toxicity, the mixture consists of ingredient(s) of unknown acute toxicity, the mixture consists of ingredient(s) of unknown acute toxicity, Not classified Not classified
Self-heating mixtures Corrosive to metals Health hazards Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalation <u>Unknown Acute Oral Toy</u> <u>Unknown Acute Oral Toy</u> <u>Unknown Acute Inhalatio</u> Skin corrosion / irritatio Serious eye damage / ey Respiratory or skin sens Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ to Specific target organ to Aspiration hazard	<u>kicity:</u> 35.1% of <u>Toxicity:</u> 35.5% of <u>n:vapour Toxicity:</u> 40.5% of n ye irritation itization xicity (Singel exposure) xicity(Repeated exposure) c environment(acute)	Not classified Not classified Not classified Not classified the mixture consists of ingredient(s) of unknown acute toxicity. the mixture consists of ingredient(s) of unknown acute toxicity. the mixture consists of ingredient(s) of unknown acute toxicity. Not classified Not classified

### Hazard(s) not otherwise classified (HNOC)

None known.

# 2.2 Label elements

Pictograms or Symbol



**Signal Word** Warning

# Hazard statement

May cause an allergic skin reaction

# Precautionary Statements

#### Prevention

Avoid breathing dust/vapours

- ·Contaminated work clothing should not be allowed out of the workplace
- •Wear protective gloves/protective clothing/eye protection/face protection

#### Response

•IF ON SKIN: Wash with soap and water

- If skin irritation or a rash occurs: Get medical advice/attention
- •Take off contaminated clothing and wash it before reuse.
- Storage

#### Disposal

•Dispose of contents/container to in accordance with local government regulation.

# 3. Composition/information on ingredients

3.1 Substance : Not applicable

#### 3.2 Mixture

Component	Amount	CAS No.	
Pigments	1-5%	Trade Secret	
Dyes	< 1 %	Trade Secret	
Water	70-75%	7732-18-5	
Glycerol	5-10%	56-81-5	
Resins	5-10%	Trade Secret	
Additives	10-15%	Trade Secret	

# Additional information

The specific chemical identify and exact percentages of composition of the mixture has been withheld as a Trade Secrets in accordance with the provisions of paragraph (i) of § 1910.1200 of 29 CFR1910.1200.

#### 4. First-aid measures

# 4.1 Description of First-aid measures

# After inhalation:

Call a doctor/physician if you feel unwell.

Remove victim to fresh air and keep at rest in a position comfortable for breathing.

# After skin contact:

Wash with soap and water

Call a doctor/physician if you feel unwell.

If skin irritation or a rash occurs: Get medical advice/attention

Take off contaminated clothing and wash it before reuse.

#### After eye contact:

Rinse continuously with water for several minutes.

Remove contact lenses if present and easy to do . Continue rinsing If eye irritation persists : Get medical advice/attention

#### After ingestion:

Call a doctor/physician if you feel unwell.

Protection of the person who takes first aid

#### Nothing in particular.

4.2 Most important symptoms and effects, both acute and delayed

No significant reaction of the human body to this product known.

4.3 Indication of any immediate medical attention and special treatment needed Therer is no specific and immedate treatment, but should consult a doctor.

#### 5. Fire-fighting measures

Suitable Extinguishing media

Carbon dioxide, dry chemical powder, water fog, foam

Prohibition extinguishing media for safety reason

#### Water spray (straight) Specific hazards

This product is not combustible.But evaporated residue is combustible.

May produce toxic fumes if burning.

### Specific fire fighting procedures

If safe to do so, move undamaged containers from the fire area.

If can't move the container, cool containers and surrounding with spray water.

Cool containers with large quantities of water until well after extinguished the fire.

#### Special protective equipment for fire-fighters

Fire-fighting should be performed from the windward side.

Respiratory protection, and other suitable protective equipment

Special protective equipment for fire-fighters

#### 6. Accidental release measures

#### Suitable Extinguishing media

Carbon dioxide, dry chemical powder, water fog, foam

#### Prohibition extinguishing media for safety reason

Water spray (straight)

# Specific hazards

This product is not combustible.But evaporated residue is combustible.

May produce toxic fumes if burning.

#### Specific fire fighting procedures

If safe to do so, move undamaged containers from the fire area.

If can't move the container , cool containers and surrounding with spray water.

Cool containers with large quantities of water until well after extinguished the fire.

#### Special protective equipment for fire-fighters

Fire-fighting should be performed from the windward side.

Respiratory protection, and other suitable protective equipment

#### Reference to other sections

Refer to section 8 and 13.

#### 7. Handling and storage

#### 7.1 Precautions for safe handling

Technical measures

Do suitable equipment measures and use suitable protection that refer to

"8. Exposure control/ personal protection".

Local exhaust ventilation and general ventilation

Use local exhaust ventilation and general ventilation that refer to

"8. Exposure control/ personal protection".

# Caution

When handling do not use high temperature articles, spark and fire.

Handle container with care, do not make it turn over, drop, give impact and drag.

Do not breathe, contact and swallow.

Maintain air concentrations below exposure limit using exhaust ventilation.

Do not eat, drink or smoke when using this product.

Wash hand throughly after handling.

Use only outdoors or in awell-ventilated area.

Avoid release to the environment.

# Avoid contact

Refer to section 10 about stability and reactivity.

# 7.2 Conditions for safe storage, including incompatabilities

#### Storage

# Incompatible materials

Refer to section 10 about stability and reactivity.

#### Storage condition

Store away from heat/sparks/open flames - No smoking

Store in a well ventilated place. Keep cool and container tightly closed.

Store locked up.

# The Containers

Use the container that our company filled up when ship products

7.3 Specific end uses

Not applicable

#### 8. Exposure control/ personal protection

# 8.1 .1 Control parameters

Exposure limit values

Chemical name	OSHA Permissible Exposure Limits (PEL)	ACGIH TLV-TWA
Glycerol	Not established	10mg/m <sup>3</sup> (mist, TWA, 2009)

#### 8.2 Exposure controls

#### Equipment measures

Put up local exhaust ventilation.Use explosion-proof electrical/ventilating/lighting.

Take precautionary measures against static discharge.

Put up emergency eyewash and shower in case of storage or handling about this product.

#### Protection

#### **Respiratory protection**

If necessary use suitable respiratory protection.

#### Hand protection

Use suitable protective gloves.

#### Eye protection

Use suitable eye protection.

#### Skin/body protection

If necessary use suitable face protection.

# Hygiene measures

Do not eat ,drink or smoke when using this product. Wash thoroughly after handling.

9.Physical and chemical properties	
Appearance	Purple Liquid
Odour	Peculiar odour
Odour threshold	No data available

рH	No data available	
Evaporation rate	No data available	
Flammability	No data available	
Melting point / Coagulating point	No data available	
Boiling point	No data available	
Flash point	No data available	
Explosive limit UEL	No data available	
Explosive limit LEL	No data available	
Vapour pressure	No data available	
Vapour density	No data available	
Relative density	No data available	
Water solubility	Soluble in water.	
Partition coefficient n-octanol/water	No data available	
Ignition point	No data available	
Decomposition point	No data available	
Viscosity	No data available	
Explosive properties No data available		
Oxidising properties	No data available	
Other information		
No data available		
10. Stability and reactivity		
Chemical stability	This product is stable in normal condition.	
Materials to Avoid	No data available	
Conditions to avoid	No data available	
Incompatible materials	t <b>erials</b> No data available	
Hazardous decomposition products	No data available	

11. Toxicological information	
Acute toxicity-Oral	Not classified
Acute toxicity-Dermal	Not classified
Acute toxicity-Inhalation:vapour	Not classified
Skin corrosion / irritation	Not classified
Serious eye damage / eye irritation	Not classified
Respiratory or skin sensitization	Not classified / Category 1
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
Specific target organ toxicity(Singel exposure)	Not classified
Specific target organ toxicity(Repeated exposure)	Not classified
Aspiration hazard	Not classified
12. Ecological information	
Hazardous to the aquatic environment(acute)	Not classified
Hazardous to the aquatic environment(chronic)	Not classified
Degradability	No data is available
Bioaccumulative potential	No data is available

#### 13. Disposal considerations

# Waste treatment methods

Waste residues

Mobility in soil

Disposal must be made according to official regulations.

No data is available

Avoid release to the environment.

# Contaminated container and packaging

Do not flush into the sewer.

Remove all contents when you dispose of empty containers.

14.2 UN proper shipping nam		
14.3 Transport hazard class(	es)	
14.4 Packaging group		
International regulation		
IMDG (Maritime transport)		
UN No.	Not applicable	
Class	-	
Packing Group	-	
Marine Pollutant	-	
Shipping name	-	
ICAO/IATA(Air transpor	t)	
UN No.	Not applicable	
Class		
Packing Group	_	
Shipping name	_	
ADR/RID(Land transport)		
UN No.	Not applicable	
Class	_	
Packing Group	_	
Shipping name	-	
14.5 Environmental hazards		
Hazardous to the aqua	tic environment(acute)	Not classified
Hazardous to the aqua	tic environment(chronic)	Not classified
14.6 Special precautions for	user	
Not applicable.		
Special precautions		
Prevent from falling, stum	oling and doing damage whe	en the container loading
Avoid acute vibration and	friction for container.	
If there are some indication	ns of hazard in transporting	like acute leak in transporting,
take emergency measures	and report the accident at	once to disaster management agency
Avoid transport with foods	s or feeds.	
Above regulations are not app	olied to transport of writing i	nstruments filled with the ink.
Follow all regulation in your c	ountry.	
. Regulatory information		

#### 16. Other information

In this sheet, the contents of ingredients and the value of physical and chemical properties are not guaranteed performance.

The information contained in this sheet is based on the data available at now.

But this shall not constitute a guarantee for any specific or classification.

Please be alert to handling this product because chemicals shall have unknown hazards.

This sheet may be revised when we get new information.

The information is assumed in the case of large-scale handling on business operations.

They cannot be always applicable to general use of writing instruments.

# Revision

2019/10/28First version2021/9/27Second version

# Safety Data Sheet

Version OSHA-2.0 Date of issue :2019.10.28 Revision Date:2021.09.27

1.1- Product identifier				
Product name :	Blue ink for KIRARICH (WKS18-BL)			
	ses of the substance or mixture and uses advised against			
<ul> <li>Use of the substance/i</li> <li>Recommended restriction</li> </ul>	5 1			
<ul> <li>Uses Advised Against</li> </ul>	: No information available			
1.3 – Details of the suplier				
• Manufacture	: ZEBRA CO., LTD.			
	2–9 Higashi–gokencho Shinjuku–ku Tokyo JAPAN			
TEL	: +81-3-3268-1193			
FAX	: +81-3-3268-1197			
1.4 – Emergency telephone	number			
• Manufacture	: +81-3-3268-1193			
	This phone number is available only during office hours: 9 a.m. to	half past 5 p.m.		
	(Japan time)			
. Hazards identification	cal in accordance with paragraph (d) of §1910.1200			
	stance or mixture			
Physical hazards				
<b>Physical hazards</b> Flammable liquids	Not classified			
<b>Physical hazards</b> Flammable liquids Pyrophoric liquids	Not classified Not classified			
<b>Physical hazards</b> Flammable liquids Pyrophoric liquids Self-heating mixtures	Not classified Not classified Not classified			
Physical hazards Flammable liquids Pyrophoric liquids Self-heating mixtures Corrosive to metals	Not classified Not classified			
Physical hazards Flammable liquids Pyrophoric liquids Self-heating mixtures Corrosive to metals Health hazards	Not classified Not classified Not classified Not classified			
Physical hazards Flammable liquids Pyrophoric liquids Self-heating mixtures Corrosive to metals Health hazards Acute toxicity-Oral	Not classified Not classified Not classified Not classified Not classified			
Physical hazards Flammable liquids Pyrophoric liquids Self-heating mixtures Corrosive to metals Health hazards	Not classified Not classified Not classified Not classified Not classified Not classified			
Physical hazards Flammable liquids Pyrophoric liquids Self-heating mixtures Corrosive to metals Health hazards Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalation	Not classified Not classified Not classified Not classified Not classified Not classified Not classified			
Physical hazards Flammable liquids Pyrophoric liquids Self-heating mixtures Corrosive to metals Health hazards Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalation Unknown Acute Oral Tox	Not classified Not classified Not classified Not classified Not classified Not classified Not classified Not classified 40.1% of the mixture consists of ingredient(s) of unkn			
Physical hazards Flammable liquids Pyrophoric liquids Self-heating mixtures Corrosive to metals Health hazards Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalation Unknown Acute Oral Tox Unknown Acute Dermal	Not classified Not classified Not classified Not classified Not classified Not classified Not classified Not classified Not classified 40.1% of the mixture consists of ingredient(s) of unkn Toxicity: 40.5% of the mixture consists of ingredient(s) of unkn	own acute toxicity		
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Physical hazards Flammable liquids Pyrophoric liquids Self-heating mixtures Corrosive to metals Health hazards Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalation Unknown Acute Oral Tox Unknown Acute Dermal	Not classified         Vapour         Not classified	own acute toxicity		
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Physical hazards Flammable liquids Pyrophoric liquids Self-heating mixtures Corrosive to metals Health hazards Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalation Unknown Acute Oral Tox Unknown Acute Oral Tox Unknown Acute Inhalation Skin corrosion / irritation Skin corrosion / irritation Skin corrosion / irritation Serious eye damage / er Respiratory or skin sens Germ cell mutagenicity Carcinogenicity Reproductive toxicity	Not classified         Value         Vapour         Value         40.1% of the mixture consists of ingredient(s) of unkn         In: vapour Toxicity:         40.5% of the mixture consists of ingredient(s) of unkn         In: vapour Toxicity:         45.5% of the mixture consists of ingredient(s) of unkn         In: vapour Toxicity:         45.5% of the mixture consists of ingredient(s) of unkn         In: vapour Toxicity:         45.5% of the mixture consists of ingredient(s) of unkn         In: vapour Toxicity:         45.5% of the mixture consists of ingredient(s) of unkn         In: vapour Toxicity:         Not classified         N	own acute toxicity		
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Physical hazards Flammable liquids Pyrophoric liquids Self-heating mixtures Corrosive to metals Health hazards Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalation <u>Unknown Acute Oral Tox</u> <u>Unknown Acute Dermal</u> <u>Unknown Acute Inhalation</u> Skin corrosion / irritation Skin corrosion / irritation Serious eye damage / eye Respiratory or skin sens Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ to Specific target organ to	Not classified         vapour         Val 0.1% of the mixture consists of ingredient(s) of unkn         In: vapour Toxicity:         40.5% of the mixture consists of ingredient(s) of unkn         In: vapour Toxicity:         45.5% of the mixture consists of ingredient(s) of unkn         In: vapour Toxicity:         45.5% of the mixture consists of ingredient(s) of unkn         In: vapour Toxicity:         45.5% of the mixture consists of ingredient(s) of unkn         In: vapour Toxicity:         45.5% of the mixture consists of ingredient(s) of unkn         In: vapour Toxicity:         45.5% of the mixture consists of ingredient(s) of unkn         In: vapour Toxicity:         In: vapour Toxicity:         In: vapour Toxicity:         Not classified         Not classified         Not classified         Not classified         Not classified	own acute toxicity		
Physical hazards Flammable liquids Pyrophoric liquids Self-heating mixtures Corrosive to metals Health hazards Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalation <u>Unknown Acute Oral Tox</u> <u>Unknown Acute Oral Tox</u> <u>Unknown Acute Inhalation</u> Skin corrosion / irritation Skin corrosion / irritation Serious eye damage / ey Respiratory or skin sens Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ to Specific target organ to Aspiration hazard	Not classified         vapour         Val 0.1% of the mixture consists of ingredient(s) of unkn         In: vapour Toxicity:         40.5% of the mixture consists of ingredient(s) of unkn         In: vapour Toxicity:         45.5% of the mixture consists of ingredient(s) of unkn         In: vapour Toxicity:         45.5% of the mixture consists of ingredient(s) of unkn         In: vapour Toxicity:         45.5% of the mixture consists of ingredient(s) of unkn         In: vapour Toxicity:         45.5% of the mixture consists of ingredient(s) of unkn         In: vapour Toxicity:         45.5% of the classified         Not classified	own acute toxicity		
Physical hazards Flammable liquids Pyrophoric liquids Self-heating mixtures Corrosive to metals Health hazards Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalation <u>Unknown Acute Oral Too</u> <u>Unknown Acute Oral Too</u> <u>Unknown Acute Inhalation</u> Skin corrosion / irritation Serious eye damage / eye Respiratory or skin sens Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ to Aspiration hazard Environmental hazards	Not classified         Vapour         40.1% of the mixture consists of ingredient(s) of unkn         Toxicity:         40.5% of the mixture consists of ingredient(s) of unkn         In: vapour Toxicity:         45.5% of the mixture consists of ingredient(s) of unkn         Not classified         ye irritation         Not classified	own acute toxicity		
Physical hazards Flammable liquids Pyrophoric liquids Self-heating mixtures Corrosive to metals Health hazards Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalation <u>Unknown Acute Oral Tox</u> <u>Unknown Acute Oral Tox</u> <u>Unknown Acute Inhalation</u> Skin corrosion / irritation Skin corrosion / irritation Serious eye damage / ey Respiratory or skin sens Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ to Specific target organ to Aspiration hazard	Not classified         Variable	own acute toxicity		

#### Hazard(s) not otherwise classified (HNOC)

None known.

# 2.2 Label elements

Pictograms or Symbol



**Signal Word** Warning

Hazard statement

May cause an allergic skin reaction

**Precautionary Statements** 

#### Prevention

Avoid breathing dust/vapours

- ·Contaminated work clothing should not be allowed out of the workplace
- •Wear protective gloves/protective clothing/eye protection/face protection

#### Response

•IF ON SKIN: Wash with soap and water

- If skin irritation or a rash occurs: Get medical advice/attention
- •Take off contaminated clothing and wash it before reuse.

Storage

#### Disposal

•Dispose of contents/container to in accordance with local government regulation.

# 3. Composition/information on ingredients

3.1 Substance : Not applicable

#### 3.2 Mixture

Component	Amount	CAS No.	
Pigments	1-5%	Trade Secret	
Dyes	< 1 %	Trade Secret	
Water	65-70%	7732-18-5	
Glycerol	5-10%	56-81-5	
Resins	5-10%	Trade Secret	
Additives	10-15%	Trade Secret	

# Additional information

The specific chemical identify and exact percentages of composition of the mixture has been withheld as a Trade Secrets in accordance with the provisions of paragraph (i) of § 1910.1200 of 29 CFR1910.1200.

#### 4. First-aid measures

### 4.1 Description of First-aid measures

#### After inhalation:

Call a doctor/physician if you feel unwell.

Remove victim to fresh air and keep at rest in a position comfortable for breathing.

#### After skin contact:

Wash with soap and water

Call a doctor/physician if you feel unwell.

If skin irritation or a rash occurs: Get medical advice/attention

Take off contaminated clothing and wash it before reuse.

#### After eye contact:

Rinse continuously with water for several minutes.

Remove contact lenses if present and easy to do . Continue rinsing If eye irritation persists : Get medical advice/attention

#### After ingestion:

Call a doctor/physician if you feel unwell.

Protection of the person who takes first aid

#### Nothing in particular.

4.2 Most important symptoms and effects, both acute and delayed

No significant reaction of the human body to this product known.

4.3 Indication of any immediate medical attention and special treatment needed Therer is no specific and immedate treatment, but should consult a doctor.

#### 5. Fire-fighting measures

Suitable Extinguishing media

Carbon dioxide, dry chemical powder, water fog, foam

Prohibition extinguishing media for safety reason

#### Water spray (straight) Specific hazards

This product is not combustible.But evaporated residue is combustible.

May produce toxic fumes if burning.

# Specific fire fighting procedures

If safe to do so, move undamaged containers from the fire area.

If can't move the container , cool containers and surrounding with spray water.

Cool containers with large quantities of water until well after extinguished the fire.

### Special protective equipment for fire-fighters

Fire-fighting should be performed from the windward side.

Respiratory protection, and other suitable protective equipment

Special protective equipment for fire-fighters

#### 6. Accidental release measures

#### Suitable Extinguishing media

Carbon dioxide, dry chemical powder, water fog, foam

#### Prohibition extinguishing media for safety reason

#### Water spray (straight)

### Specific hazards

This product is not combustible.But evaporated residue is combustible.

May produce toxic fumes if burning.

#### Specific fire fighting procedures

If safe to do so, move undamaged containers from the fire area.

If can't move the container , cool containers and surrounding with spray water.

Cool containers with large quantities of water until well after extinguished the fire.

#### Special protective equipment for fire-fighters

Fire-fighting should be performed from the windward side.

Respiratory protection, and other suitable protective equipment

#### Reference to other sections

Refer to section 8 and 13.

#### 7. Handling and storage

#### 7.1 Precautions for safe handling

Technical measures

Do suitable equipment measures and use suitable protection that refer to

"8. Exposure control/ personal protection".

Local exhaust ventilation and general ventilation

Use local exhaust ventilation and general ventilation that refer to

"8. Exposure control/ personal protection".

### Caution

When handling do not use high temperature articles, spark and fire.

Handle container with care, do not make it turn over, drop, give impact and drag.

Do not breathe, contact and swallow.

Maintain air concentrations below exposure limit using exhaust ventilation.

Do not eat, drink or smoke when using this product.

Wash hand throughly after handling.

Use only outdoors or in awell-ventilated area.

Avoid release to the environment.

# Avoid contact

Refer to section 10 about stability and reactivity.

# 7.2 Conditions for safe storage, including incompatabilities

#### Storage

# Incompatible materials

Refer to section 10 about stability and reactivity.

#### Storage condition

Store away from heat/sparks/open flames - No smoking

Store in a well ventilated place. Keep cool and container tightly closed.

Store locked up.

# The Containers

Use the container that our company filled up when ship products

7.3 Specific end uses

Not applicable

#### 8. Exposure control/ personal protection

# 8.1 .1 Control parameters

Exposure limit values

Chemical name	OSHA Permissible Exposure Limits (PEL)	ACGIH TLV-TWA
Glycerol	Not established	10mg/m³ (mist, TWA, 2009)

#### 8.2 Exposure controls

#### Equipment measures

Put up local exhaust ventilation.Use explosion-proof electrical/ventilating/lighting.

Take precautionary measures against static discharge.

Put up emergency eyewash and shower in case of storage or handling about this product.

#### Protection

#### **Respiratory protection**

If necessary use suitable respiratory protection.

#### Hand protection

Use suitable protective gloves.

#### Eye protection

Use suitable eye protection.

#### Skin/body protection

If necessary use suitable face protection.

# Hygiene measures

Do not eat ,drink or smoke when using this product. Wash thoroughly after handling.

9.Physical and chemical properties	
Appearance	Blue Liquid
Odour	Peculiar odour
Odour threshold	No data available

# MSDS for #82330 - KIRARICH GLTTR MARKR

рН	No data availabl
Evaporation rate	No data availabl
Flammability	No data availabl
Melting point / Coagulating point	No data availabl
Boiling point	No data availabl
Flash point	No data availabl
Explosive limit UEL	No data availabl
Explosive limit LEL	No data availabl
Vapour pressure	No data availabl
Vapour density	No data availabl
Relative density	No data availabl
Water solubility	Soluble in water
Partition coefficient n-octanol/water	No data availabl
Ignition point	No data availabl
Decomposition point	No data availabl
Viscosity	No data availabl
Explosive properties	No data availabl
Oxidising properties	No data availabl
Other information	
No data available	

Chemical stability	This product is stable in normal condition.
Materials to Avoid	No data available
Conditions to avoid	No data available
Incompatible materials	No data available
Hazardous decomposition products	No data available

1. Toxicological information	
Acute toxicity-Oral	Not classified
Acute toxicity–Dermal	Not classified
Acute toxicity-Inhalation:vapour	Not classified
Skin corrosion / irritation	Not classified
Serious eye damage / eye irritation	Not classified
Respiratory or skin sensitization	Not classified/Category 1
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
Specific target organ toxicity(Singel exposure)	Not classified
Specific target organ toxicity(Repeated exposure)	Not classified
• • • • •	
Aspiration hazard	Not classified
Aspiration hazard 2. Ecological information	Not classified
·	Not classified
2. Ecological information	
<ol> <li>Ecological information</li> <li>Hazardous to the aquatic environment(acute)</li> </ol>	Not classified

#### 13. Disposal considerations

# Waste treatment methods

Waste residues

Mobility in soil

Disposal must be made according to official regulations.

No data is available

Avoid release to the environment.

Contaminated container and packaging

Do not flush into the sewer.

Remove all contents when you dispose of empty containers.

14.3 Transport hazard class(es) 14.4 Packaging group International regulation IMDG (Maritime transport) UN No. Not applicable Class – Packing Group – Marine Pollutant – Shipping name – ICAO/LATA(Air transport) UN No. Not applicable Class – Packing Group – Shipping name – ADR/RID(Land transport) UN No. Not applicable Class – Packing Group – Shipping name – ADR/RID(Land transport) UN No. Not applicable Class – Packing Group – Shipping name – 14.5 Environmental hazards Hazardous to the aquatic environment(acute) Not classified Hazardous to the aquatic environment(acute) Not classified 14.8 Special precautions for user Not applicable. Special precautions of hazard in transporting like acute leak in transporting, take emergency measures and report the accident at once to disaster management agency. Avoid transport with foods or feeds. Above regulations in your country. 5. Regulatory information	14.2 UN proper shipping nam		
International regulation         IMDG (Maritime transport)       UN No.       Not applicable         Class       –         Packing Group       –         Marine Pollutant       –         Shipping name       –         ICAO/IATA (Air transport)       —         UN No.       Not applicable         Class       –         Packing Group       –         Packing Group       –         Packing Group       –         Shipping name       –         VIN No.       Not applicable         Class       –         Packing Group       –         UN No.       Not applicable         Class       –         Packing Group       –         UN No.       Not applicable         Class       –         Packing Group       –         Shipping name       –         14.5 Environmental hazards       –         Hazardous to the aquatic environment(acute)       Not classified         Hazardous to the aquatic environment(acute)       Not classified         Hazardous to the aquatic environment(chronic)       Not classified         Hazardous to the aquatic environment(acute)       Not	14.3 Transport hazard class(	es)	
IMDG (Maritime transport)       Not applicable         Class       -         Packing Group       -         Marine Pollutant       -         Shipping name       -         ICAO/IATA (Air transport)       IVN No.         Not applicable       Class         Class       -         Packing Group       -         Shipping name       -         ADR/RID(Land transport)       IVN No.         UN No.       Not applicable         Class       -         Packing Group       -         Shipping name       -         ADR/RID(Land transport)       UN No.         UN No.       Not applicable         Class       -         Packing Group       -         Shipping name       -         14.5 Environmental hazards       -         Hazardous to the aquatic environment(acute)       Not classified         Hazardous to the aquatic environment(chronic)       Not classified         Hazardous to the aquatic environment(chronic)       Not classified         Hazardous to the aquatic environment(acute)       Not classified         Hazardous to the aquatic environment(acute)       Not classified         Hazardous to the aquatic enviro	14.4 Packaging group		
UN No.       Not applicable         Class       -         Packing Group       -         Marine Pollutant       -         Shipping name       -         ICAO/IATA (Air transport)       -         UN No.       Not applicable         Class       -         Packing Group       -         Shipping name       -         ADR/RID(Land transport)       -         UN No.       Not applicable         Class       -         Packing Group       -         Shipping name       -         ADR/RID(Land transport)       -         UN No.       Not applicable         Class       -         Packing Group       -         Shipping name       -         14.5 Environmental hazards         Hazardous to the aquatic environment(acute)       Not classified         Hazardous to the aquatic environment(chronic)       Not classified         Avoid acute vibration and friction for container.       Special precau	International regulation		
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Marine Pollutant       -         Shipping name       -         ICAO/IATA(Air transport)       -         UN No.       Not applicable         Class       -         Packing Group       -         Shipping name       -         ADR/RID(Land transport)       -         UN No.       Not applicable         Class       -         Packing Group       -         Shipping name       -         14.5 Environmental hazards       -         Hazardous to the aquatic environment(acute)       Not classified         Hazardous to the aquatic environment(chronic)       Not classified         14.6 Special precautions for user       Not applicable.         Special precautions       -         Prevent from falling, stumbling and doing damage when the container loading         Avoid acute vibration and friction for container.       If there are some indications of hazard in transporting like acute leak in transporting, take emergency measures and report the accident at once to disaster management agency.         Avoid transport with foods or feeds.       Above regulations are not applied to transport of writing instruments filled with the ink.         Follow all regulation in your country.       -	Class	_	
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ICAO/IATA (Air transport)         UN No.       Not applicable         Class       –         Packing Group       –         Shipping name       –         ADR/RID(Land transport)       –         UN No.       Not applicable         Class       –         Packing Group       –         Shipping name       –         Packing Group       –         Shipping name       –         14.5 Environmental hazards       –         Hazardous to the aquatic environment(acute)       Not classified         Hazardous to the aquatic environment(chronic)       Not classified         Hazardous to the aquatic environment(chronic)       Not classified         Hazardous to the aquatic environment(acute)       Not classified         Hazardous to the aquatic environment(acute)       Not classified         Hazardous to the aquatic environment(acute)       Not classified         Hazerdous to the aquatic environment(acute)       Not classified         Hazerdous to the aquatic environment(acute)       Not classified         Hazerdous to the aquatic environment(acute)       Not classified         Special precautions       Forevent from falling, stumbling and doing damage when the container loading         Avoid acute vibratio	Marine Pollutant	-	
UN No.       Not applicable         Class       -         Packing Group       -         Shipping name       -         ADR/RID(Land transport)       -         UN No.       Not applicable         Class       -         Packing Group       -         Shipping name       -         Packing Group       -         Shipping name       -         14.5 Environmental hazards       -         Hazardous to the aquatic environment(acute)       Not classified         Hazardous to the aquatic environment(chronic)       Not classified         14.6 Special precautions for user       Not applicable.         Special precautions       -         Prevent from falling, stumbling and doing damage when the container loading         Avoid acute vibration and friction for container.         If there are some indications of hazard in transporting like acute leak in transporting, take emergency measures and report the accident at once to disaster management agency Avoid transport with foods or feeds.         Above regulations are not applied to transport of writing instruments filled with the ink.         Follow all regulation in your country.	Shipping name	_	
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Follow all regulation in your country.	Avoid transport with foods	s or feeds.	
	Above regulations are not app	olied to transport of writing i	nstruments filled with the ink.
. Regulatory information	Follow all regulation in your c	ountry.	
	5. Regulatory information		

#### 16. Other information

In this sheet, the contents of ingredients and the value of physical and chemical properties are not guaranteed performance.

The information contained in this sheet is based on the data available at now.

But this shall not constitute a guarantee for any specific or classification.

Please be alert to handling this product because chemicals shall have unknown hazards.

This sheet may be revised when we get new information.

The information is assumed in the case of large-scale handling on business operations.

They cannot be always applicable to general use of writing instruments.

# Revision

2019/10/28First version2021/9/27Second version

# Safety Data Sheet

Version OSHA-2.0 Date of issue :2019.10.28 Revision Date:2021.09.27

1.1– Product identifier		
Product name :	Y	ellow ink for KIRARICH (WKS18-Y)
1.2 – Relevant identified u	ses of the substance o	r mixture and uses advised against
<ul> <li>Use of the substance/</li> </ul>	mixture : Ink for	writing implement
	tions on use : No info	
•Uses Advised Against		ormation available
1.3 – Details of the suplier		
<ul> <li>Manufacture</li> </ul>	: ZEBRA CO., LTD	
		encho Shinjuku-ku Tokyo JAPAN
TEL	: +81-3-3268-119	
FAX	: +81-3-3268-119	1
1.4 – Emergency telephon	e number	
<ul> <li>Manufacture</li> </ul>	: +81-3-3268-119	3
		er is available only during office hours: 9 a.m. to half past 5 p.m.
	(Japan time)	
Classification of the chemi	ical in accordance with	paragraph (d) of §1910.1200
2.1 Classification of the sub	stance or mixture	
Physical hazards		
Flammable liquids		Not classified
Pyrophoric liquids		Not classified
		Not classified
Self-heating mixtures Corrosive to metals		
Self-heating mixtures		Not classified
Self-heating mixtures Corrosive to metals		Not classified
Self-heating mixtures Corrosive to metals <b>Health hazards</b>		Not classified Not classified
Self-heating mixtures Corrosive to metals <b>Health hazards</b> Acute toxicity-Oral	n : vapour	Not classified Not classified Not classified
Self-heating mixtures Corrosive to metals <b>Health hazards</b> Acute toxicity-Oral Acute toxicity-Dermal		Not classified Not classified Not classified Not classified Not classified
Self-heating mixtures Corrosive to metals Health hazards Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalatio <u>Unknown Acute Oral To</u>	oxicity: 30.1	Not classified Not classified Not classified Not classified Not classified
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Self-heating mixtures Corrosive to metals Health hazards Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalatio <u>Unknown Acute Oral To</u> <u>Unknown Acute Dermal</u> <u>Unknown Acute Inhalatio</u>	xicity: 30.1 Toxicity: 40.3 on:vapour Toxicity: 56.3	Not classified Not classified Not classified Not classified Not classified % of the mixture consists of ingredient(s) of unknown acute toxicity % of the mixture consists of ingredient(s) of unknown acute toxicity % of the mixture consists of ingredient(s) of unknown acute toxicity
Self-heating mixtures Corrosive to metals Health hazards Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalatio Unknown Acute Oral To Unknown Acute Dermal Unknown Acute Inhalati Skin corrosion / irritatio	xicity: 30.1 Toxicity: 40.3 on:vapour Toxicity: 56.3 on	Not classified Not classified Not classified Not classified Not classified % of the mixture consists of ingredient(s) of unknown acute toxicity % of the mixture consists of ingredient(s) of unknown acute toxicity
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Self-heating mixtures Corrosive to metals Health hazards Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalatio Unknown Acute Oral To Unknown Acute Dermal Unknown Acute Inhalati Skin corrosion / irritatio Serious eye damage / e	xicity: 30.1 Toxicity: 40.3 on:vapour Toxicity: 56.3 on aye irritation	Not classified Not classified Not classified Not classified Not classified % of the mixture consists of ingredient(s) of unknown acute toxicity % of the mixture consists of ingredient(s) of unknown acute toxicity % of the mixture consists of ingredient(s) of unknown acute toxicity Not classified Category 2
Self-heating mixtures Corrosive to metals Health hazards Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalatio Unknown Acute Oral To Unknown Acute Dermal Unknown Acute Inhalati Skin corrosion / irritatio Serious eye damage / e Respiratory or skin sen	xicity: 30.1 Toxicity: 40.3 on:vapour Toxicity: 56.3 on aye irritation	Not classified Not classified Not classified Not classified Not classified % of the mixture consists of ingredient(s) of unknown acute toxicity % of the mixture consists of ingredient(s) of unknown acute toxicity % of the mixture consists of ingredient(s) of unknown acute toxicity Not classified Category 2 Not classified Category 1
Self-heating mixtures Corrosive to metals Health hazards Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalatio Unknown Acute Oral To Unknown Acute Dermal Unknown Acute Inhalati Skin corrosion / irritatio Serious eye damage / e Respiratory or skin sen Germ cell mutagenicity	xicity: 30.1 Toxicity: 40.3 on:vapour Toxicity: 56.3 on aye irritation	Not classified Not classified Not classified Not classified Not classified % of the mixture consists of ingredient(s) of unknown acute toxicity % of the mixture consists of ingredient(s) of unknown acute toxicity % of the mixture consists of ingredient(s) of unknown acute toxicity % of the mixture consists of ingredient(s) of unknown acute toxicity Not classified Category 2 Not classified Category 1 Not classified
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Self-heating mixtures Corrosive to metals Health hazards Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalatio <u>Unknown Acute Oral To</u> <u>Unknown Acute Dermal</u> <u>Unknown Acute Dermal</u> <u>Unknown Acute Inhalati</u> Skin corrosion / irritatio Serious eye damage / e Respiratory or skin sem Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ to Aspiration hazard	xicity: 30.1 Toxicity: 40.3 on:vapour Toxicity: 56.3 on eye irritation sitization oxicity (Singel exposure) oxicity(Repeated exposu	Not classified Not classified Not classified Not classified Not classified Not classified % of the mixture consists of ingredient(s) of unknown acute toxicity % of the mixture consists of ingredient(s) of unknown acute toxicity % of the mixture consists of ingredient(s) of unknown acute toxicity Not classified Category 2 Not classified Not classified

- 1 -

Item Numbers: 82330-1005, 82330-3060, 82330-4010, 82330-5010, 82330-6000, 82330-7010

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# Hazard(s) not otherwise classified (HNOC)

None known.

# 2.2 Label elements

Pictograms or Symbol



Signal Word Warning

#### Hazard statement

Causes serious eye irritation

•May cause an allergic skin reaction

# **Precautionary Statements**

#### Prevention

- Avoid breathing dust/vapours
- •Wash hand throughly after handling
- ·Contaminated work clothing should not be allowed out of the workplace
- •Wear protective gloves/protective clothing/eye protection/face protection

#### Response

•IF ON SKIN: Wash with soap and water

- If skin irritation or a rash occurs: Get medical advice/attention
- •IF IN EYES: Rinse continuously with water for several minutes.
- Remove contact lenses if present and easy to do . Continue rinsing
- ${\boldsymbol{\cdot}} If$  eye irritation persists : Get medical advice/attention
- $\ensuremath{\cdot}\xspace{\mathsf{Take}}$  off contaminated clothing and wash it before reuse.

# Storage

#### Disposal

•Dispose of contents/container to in accordance with local government regulation.

# 3. Composition/information on ingredients

#### 3.1 Substance : Not applicable

#### 3.2 Mixture

#### Component and Amount

Component	Amount	CAS No.	
Pigments	1-5%	Trade Secret	
Dyes	< 1 %	Trade Secret	
Water	65-70%	7732-18-5	
Glycerol	15-20%	56-81-5	
Resins	10-15%	Trade Secret	
Additives	1-5%	Trade Secret	

#### Additional information

The specific chemical identify and exact percentages of composition of the mixture has been withheld as a Trade Secrets in accordance with the provisions of paragraph (i) of § 1910.1200 of 29 CFR1910.1200 .

#### 4. First-aid measures

# 4.1 Description of First-aid measures

After inhalation:

Call a doctor/physician if you feel unwell.

Remove victim to fresh air and keep at rest in a position comfortable for breathing.

#### After skin contact:

Wash with soap and water

Call a doctor/physician if you feel unwell.

If skin irritation or a rash occurs: Get medical advice/attention Take off contaminated clothing and wash it before reuse.

# After eye contact:

Rinse continuously with water for several minutes.

Remove contact lenses if present and easy to do . Continue rinsing If eve irritation persists : Get medical advice/attention

#### After ingestion:

Call a doctor/physician if you feel unwell.

Protection of the person who takes first aid

Nothing in particular.

#### 4.2 Most important symptoms and effects, both acute and delayed

No significant reaction of the human body to this product known. 4.3 Indication of any immediate medical attention and special treatment needed

Therer is no specific and immedate treatment, but should consult a doctor.

# 5. Fire-fighting measures

# Suitable Extinguishing media

Carbon dioxide, dry chemical powder, water fog, foam

#### Prohibition extinguishing media for safety reason

# Water spray (straight)

Specific hazards

This product is not combustible.But evaporated residue is combustible.

May produce toxic fumes if burning.

#### Specific fire fighting procedures

If safe to do so, move undamaged containers from the fire area.

If can't move the container , cool containers and surrounding with spray water.

Cool containers with large quantities of water until well after extinguished the fire.

# Special protective equipment for fire-fighters

Fire-fighting should be performed from the windward side.

Respiratory protection, and other suitable protective equipment

Special protective equipment for fire-fighters

# 6. Accidental release measures

#### Suitable Extinguishing media

Carbon dioxide, dry chemical powder, water fog, foam

#### Prohibition extinguishing media for safety reason

Water spray (straight)

#### Specific hazards

This product is not combustible.But evaporated residue is combustible.

May produce toxic fumes if burning.

# Specific fire fighting procedures

If safe to do so, move undamaged containers from the fire area.

If can't move the container , cool containers and surrounding with spray water.

 $\label{eq:cool} \mbox{Cool containers with large quantities of water until well after extinguished the fire. }$ 

# Special protective equipment for fire-fighters

Fire-fighting should be performed from the windward side.

Respiratory protection, and other suitable protective equipment

Reference to other sections

Refer to section 8 and 13.

# 7. Handling and storage

# 7.1 Precautions for safe handling

#### Technical measures Do suitable equipment mea

Do suitable equipment measures and use suitable protection that refer to

# "8. Exposure control/ personal protection".

Local exhaust ventilation and general ventilation

- Use local exhaust ventilation and general ventilation that refer to
- "8. Exposure control/ personal protection".

# Caution

When handling do not use high temperature articles, spark and fire.

- Handle container with care, do not make it turn over, drop, give impact and drag.
- Do not breathe, contact and swallow.

Maintain air concentrations below exposure limit using exhaust ventilation.

- Do not eat, drink or smoke when using this product.
- Wash hand throughly after handling.
- Use only outdoors or in awell-ventilated area.
- Avoid release to the environment.

#### Avoid contact

Refer to section 10 about stability and reactivity.

#### 7.2 Conditions for safe storage, including incompatabilities

#### Storage

#### Incompatible materials

Refer to section 10 about stability and reactivity.

### Storage condition

Store away from heat/sparks/open flames - No smoking

- Store in a well ventilated place. Keep cool and container tightly closed.
- Store locked up.

# The Containers

Use the container that our company filled up when ship products

7.3 Specific end uses

Not applicable

# 8. Exposure control/ personal protection

#### 8.1 .1 Control parameters Exposure limit values

Chemical name	OSHA Permissible Exposure Limits (PEL)	ACGIH TLV-TWA
Glycerol	Not established	10mg/m <sup>3</sup> (mist, TWA, 2009)

#### 8.2 Exposure controls

#### Equipment measures

Put up local exhaust ventilation.Use explosion-proof electrical/ventilating/lighting.

Take precautionary measures against static discharge.

Put up emergency eyewash and shower in case of storage or handling about this product.

#### Protection

#### **Respiratory protection**

If necessary use suitable respiratory protection.

Hand protection

Use suitable protective gloves.

# Eye protection

Use suitable eye protection. **Skin/body protection** 

If necessary use suitable face protection.

#### Hygiene measures

Do not eat ,drink or smoke when using this product.

Wash thoroughly after handling.

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aste residues		
Disposal must be made ac	cording to official regulation	s.
Avoid release to the envir	onment.	
Contaminated container and		
Do not flush into the sewe		
Remove all contents whe	n you dispose of empty cont	cainers.
Transport information		
4.1 Un number		
4.2 UN proper shipping nam	e	
4.3 Transport hazard class(		
4.4 Packaging group		
nternational regulation		
IMDG (Maritime transport)		
UN No.	Not applicable	
Class	_	
Packing Group	_	
Marine Pollutant	_	
Shipping name	_	
ICAO/IATA(Air transpor	t)	
UN No.	Not applicable	
		_
UN No.		
UN No. Class		
UN No. Class Packing Group		
UN No. Class Packing Group Shipping name ADR/RID(Land transport)	Not applicable - - -	
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UN No. Class Packing Group Shipping name ADR/RID(Land transport) UN No. Class Packing Group Shipping name 4.5 Environmental hazards Hazardous to the aqua Hazardous to the aqua	Not applicable - - - Not applicable - - - tic environment(acute) tic environment(chronic) user bling and doing damage who friction for container. ons of hazard in transporting and report the accident at s or feeds. blied to transport of writing i	Not classified en the container loading like acute leak in transporting, once to disaster management agency.
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In this sheet, the contents of ingredients and the value of physical and chemical properties are not guaranteed performance.

The information contained in this sheet is based on the data available at now.

But this shall not constitute a guarantee for any specific or classification.

Please be alert to handling this product because chemicals shall have unknown hazards.

This sheet may be revised when we get new information.

The information is assumed in the case of large-scale handling on business operations.

They cannot be always applicable to general use of writing instruments.

Revision

2019/10/28 First version

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