

21850-XXXX

Safety Data Sheet**YASUTOMO**

Revised: 04/07/2023

01. CHEMICALS AND COMPANY IDENTIFICATION

Name: GEL X-TREME
Company: YASUTOMO
 3740 SKYPARK DRIVE
 TORRANCE, CA 90505

Phone: (310) 791-1995
Fax: (310) 791-1025
e-Mail: csr@yasutomo.com
Homepage: www.yasutomo.com
Emergency phone: 911
Use of substance: Gel pens

02. HAZARDS IDENTIFICATION**CLP/GHS Classification**

Health	Environmental	Physical
Not Classified or Out of category	Not Classified or Out of category	Not Classified or Out of category

Pictogram by CLP/GHS : None

Hazard Statements	Precautionary Statements
	P264: Wash hands thoroughly after handling. P280: Wear protective gloves/protective clothing/eye protection/face protection. P273: Avoid release to the environment.

PBT substance and vPvB substance:

No component of this ink a PBT or vPvB substance under Regulation(ec) 1907/2006

03. COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance or Mixture mixture

Substance	CLP/GHS Classification	EINECS/ELINCS	CAS	Range [%]
Pure Water	None	231-791-2	7723-18-5	40~50
Glycerin	None	200-289-5	56-81-5	20~40
C.I. acid red 18	None	220-036-2	2611-82-7	1~5
C.I. acid red 87	None	241-409-6	17372-87-1	1~5
C.I. direct black 19	None	229-208-1	6128-31-5	1~5

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1 of 6

Safety Data Sheet**YASUTOMO**

Revised: 04/07/2023

C.I. acid blue 9	None	220-168-0	2650-18-2	1~5
C.I. acid yellow 23	None	217-699-5	1934-21-0	1~5
C.I. acid yellow 3	None	220-491-7	2783-94-0	1~5
C.I. acid red 52	None	222-529-8	3520-42-1	1~5
1,2-benzisothiazolin-3-one	Acute. Tox. 4-oral Skin Irrit 2 Aquatic acute 1 Skin Sens. 1 Eye Dam. 1	220-120-9	2634-33-5	<0.005

04. First aid measures

Inhalation	None
Skin Contact	Immediately rinse skin with water. Get medical advice and attention if you feel unwell. Wash with plenty of soap and water. If skin irritation or rash occurs, get medical advice and attention.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Ingestion	When the ocular stimulation lasts, Seek medical treatment and advice. Rinse mouth. Do NOT induce vomiting. Get medical advice and attention if you feel unwell.

05. Fire-fighting measures

Extinguishing Media	Dry chemicals, CO ₂ , water spray or regular foam.
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06. Accidental release measures

Personal Precautions	Avoid contact with skin, eyes and clothing. Avoid breathing vapor and mist. (Also see Section 8). Do not touch damaged container or leakage thing if you do not wear appropriate Protective clothes.
Environmental Precautions	Do not release to sewer, surface water or ground water.
Method and Materials for Containment and Clean up:	After it is made to absorb to cloth or sand, it flushes with bags of water. In this case, it is noted that a thick liquid doesn't flow out to the river and drainage, etc.

Safety Data Sheet**YASUTOMO**

Revised: 04/07/2023

07. Handling and storage

Precautions for Safe Handling:	The worker wears an appropriate protection tool, and avoids contact and the inhalation into eyes and the skins (Also see Section 8).
Conditions for Stable Storage	The storage container must closely stop it, and be grounded and bonded. Store away from low temperature less than its melting point and high temperature below 50 °C.

08. Exposure controls / personal protection

Engineering Controls	Good general ventilation should be sufficient to control airborne levels.
Personal Protective Equipment	Respiratory Protection Hand Protection Eye Protection Skin and Body Protection
	Use personal respiratory equipment as required. Use personal gloves as required. Use personal eye protection as required. Use personal protective clothing and face protection as required.

09. Physical and chemical properties

Appearance	Physical State	liquid
	Form	liquid (Low viscous liquid)
	Colour	Black, Blue, Red, Violet, Green etc.
Odour		None
Odour threshold		No data available
pH		7~9
Melting Point/Freezing Point		No data available
Initial Boiling Point and Boiling Ranges		100°C
Flash Point		no data available
Evaporation Rate		no data available
Flammability (solid, gas)		no data available
Flammability or Explosive Limits	Lower Limit	no data available
	Upper Limit	no data available
Vapour Pressure		no data available
Vapour Density		no data available
Specific Gravity		no data available

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3 of 6

Safety Data Sheet**YASUTOMO**

Revised: 04/07/2023

(Density)	
Partition Coefficient : n-Octanol/Water	no data available
Auto-Ignition	no data available
Decomposition Temperature	no data available
Viscosity	>1000 mPa.s(25 °C)
Kinematic viscosity	no data available

10. Stability and reactivity

Reactivity	No data available
Chemical stability	No decomposition, if used according to specifications.
Possibility of Hazardous Reaction	No data available
Incompatible Substances or Mixtures	No data available
Hazardous Decomposition Products	No data available

11. Toxicological information

Acute Toxicity	Inhalation: Not available Ingestion: Not available Eyes: May causes irritation transiently, but will be weakly harmful. Skin: Will be weakly harmful.
Sensitization:	No data available
Mutagenicity	None (estimate)
Reproductive Toxicity:	No data available
Carcinogenicity:	No data available
Other Information	None

12. Ecological information

Toxicity:	No data available
Persistence /Degradability: Not available	No data available
Bioaccumulation	: Not expected to accumulate in biological organisms
Mobility:	Not mobile soil. Pigment does not dissolve in water.
PBT and vPvB:	No component in this ink a PBT or vPvB substance.
Ozone Depleting Substances:	
Other advice Effects	Not available

13. Disposal considerations

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4 of 6

Safety Data Sheet**YASUTOMO**

Revised: 04/07/2023

Waste must be disposal of in accordance with federal, state and local regulations.

14. Transport information

UN Number	Not restricted
UN Proper Shipping Name	Not restricted
Transport Hazard Class	Not restricted
Packing Group	Not restricted

15. Regulatory information

Inventory Status: All components are listed on ENCS, TSCA, DSL, ECL, ECN, IECSC, and EINECS/ELINCS.

(EU Information)

(EC) 2037/2000: Not Required

(EC) 304/2003: Not Required

2002/95/EC: None

REACH SVHC (Until 10th candidate list): None

(USA Information)

SARA Title III §302: None

§304: None

§313: None

California Proposition 65: None

HMIS Rating: Health: 1 Flammability: 0 Reactivity: 0 Personal Protection: C

NFPA Rating: Health: 1 Flammability: 0 Reactivity: 0

16. Other information

Literature References:

* ACGIH Threshold Limit Values for Chemicals Substances and Physical Agents and Biological Exposure Indices.

* ILO Occupational Safety and Health Series 37 "occupational Exposure Limits for Airborne Toxic Substances"

* World Health Organization International Agency for Research on cancer, IARC Monographs on the Carcinogenic

Risk of Chemicals to humans

* EU Directive 76/769/EEC, 67/548/EEC, 2009/2/EC

* EU Regulation (EC)2037/2000, (EC)304/2003, (EC) 1272/2008

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5 of 6

Safety Data Sheet**YASUTOMO**

Revised: 04/07/2023

The information, data and recommendations set forth herein (the "information") are presented in good faith and are believed to be correct as of the date hereof. The company/manufacture makes no representations as to the completeness or accuracy of the information and disclaims responsibility for any reliance thereon. The information is provided upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. Any use of the Information must be determined by the user to be in accordance with applicable Federal, state and local laws and regulation. In no event will the company/manufacture be responsible for damages of any nature whatsoever resulting from the use or reliance upon the Information.

Safety Data Sheet
GEL X-TREME WHITE

YASUTOMO

Revised: 01/08/2023

01. CHEMICALS AND COMPANY IDENTIFICATION

Name : GEL X-TREME WHITE
Company: YASUTOMO
 3740 SKYPARK DRIVE
 TORRANCE, CA 90505

Phone: (310) 791-1995
Fax: (310) 791-1025
eMail: csr@yasutomo.com
Homepage: www.yasutomo.com
Emergency phone: 911
Use of substance: For gel pen inks

02. HAZARDS IDENTIFICATION**CLP/GHS Classification**

Health	Environmental	Physical
Not Classified or Out of category	Not Classified or Out of category	Not Classified or Out of category

Pictogram by CLP/GHS : None

Hazard Statements	Precautionary Statements
	P264: Wash hands thoroughly after handling. P280: Wear protective gloves/protective clothing/eye protection/face protection. P273: Avoid release to the environment.

PBT substance and vPvB substance:

No component of this ink a PBT or vPvB substance under Regulation(ec) 1907/2006

03. COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance or Mixture mixture

Substance	CLP/GHS Classification	EINECS/ELINCS	CAS	Range [%]
TITANIUM DIOXIDE	None	236-675-5	13463-67-7	5~10
Glycerin	None	200-289-5	56-81-5	10~30
1,2-benzisothiazolin-3-one	Acute. Tox. 4 Skin Irrit 2 Skin Sens. 1 Eye Dam. 1 Aquatic Acute 1	220-120-9	2634-33-5	<0.005
3-Iodo-2-propynyl butyl carbamate	Acute. Tox. 4 Skin Sens. 1 Eye Dam. 1 Aquatic Acute 1	259-627-5	55406-53-6	<0.015
Pure Water	None	231-791-2	7723-18-5	50~60

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1 of 6

Safety Data Sheet
GEL X-TREME WHITE

YASUTOMO

Revised: 01/08/2023

04. First aid measures

Inhalation	None
Skin Contact	Immediately rinse skin with water. Get medical advice and attention if you feel unwell. Wash with plenty of soap and water.
Eye Contact	If skin irritation or rash occurs, get medical advice and attention. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Ingestion	When the ocular stimulation lasts, Seek medical treatment and advice. Rinse mouth. Do NOT induce vomiting. Get medical advice and attention if you feel unwell.

05. Fire-fighting measures

Extinguishing Media	Dry chemicals, CO ₂ , water spray or regular foam.
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06. Accidental release measures

Personal Precautions	Avoid contact with skin, eyes and clothing. Avoid breathing vapor and mist. (Also see Section 8). Do not touch damaged container or leakage thing if you do not wear appropriate Protective clothes.
Environmental Precautions Method and Materials for Containment and Clean up:	Do not release to sewer, surface water or ground water. After it is made to absorb to cloth or sand, it flushes with bags of water. In this case, it is noted that a thick liquid doesn't flow out to the river and drainage, etc.

07. Handling and storage

Precautions for Safe Handling:	The worker wears an appropriate protection tool, and avoids contact and the inhalation into eyes and the skins (Also see Section 8).\
Conditions for Stable Storage	The storage container must closely stop it, and be grounded and bonded. Store away from low temperature less than its melting point and high temperature below 50 oC.

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2 of 6

Safety Data Sheet
GEL X-TREME WHITE

YASUTOMO

Revised: 01/08/2023

08. Exposure controls / personal protection

Exposure Limits:

Component	Wt %	ACGIH 2002 ▪ TWA	OSHA PEL	EU-ILV	DFG MAK
TITANIUM DIOXIDE	10~15%	15mg/m3 (as dust)	10mg/m3 (as dust)	Not investigation	Not investigation

Equipment Measures
Protection Tool

Facial cleansing shower and washroom equipment, etc.
The worker has to wear following protection tools for personal safe.
Eye Protection: Chemical safety glasses with side-shields or goggles
Skin Protection: Neoprene glove, boots, and/or full body protection
Ingestion Protection: Face shield or mask

09. Physical and chemical properties

Appearance	Physical State	liquid
	Form	liquid (viscous liquid)
	Colour	white
Odour		None
Odour threshold		No data available
pH		7~9
Melting Point/Freezing Point		No data available
Initial Boiling Point and Boiling Ranges		100°C
Flash Point		no data available
Evaporation Rate		no data available
Flammability (solid, gas)		no data available
Flammability or Explosive Limits	Lower Limit	no data available
	Upper Limit	no data available
Vapour Pressure		no data available
Vapour Density		no data available
Specific Gravity (Density)		no data available
Partition Coefficient : n-Octanol/Water		no data available
Auto-Ignition		no data available
Decomposition Temperature		no data available
Viscosity		>2000 mPa.s(25°C)
Kinematic viscosity		no data available

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3 of 6

Safety Data Sheet
GEL X-TREME WHITE
YASUTOMO

Revised: 01/08/2023

10. Stability and reactivity

Reactivity	No data available
Chemical stability	No decomposition, if used according to specifications.
Possibility of Hazardous Reaction	No data available
Incompatible Substances or Mixtures	No data available
Hazardous Decomposition Products	No data available

11. Toxicological information

Acute Toxicity	Inhalation: Not available Ingestion: Not available Eyes: May causes irritation transiently, but will be weakly harmful. Skin: Will be weakly harmful.
Sensitization:	No data available
Mutagenicity	None (estimate)
Reproductive Toxicity:	No data available
Carcinogenicity:	No data available
Other Information	None

12. Ecological information

Toxicity:	No data available
Persistence /Degradability: Not available	No data available
Bioaccumulation	: Not expected to accumulate in biological organisms
Mobility:	Not mobile soil. Pigment does not dissolve in water.
PBT and vPvB:	No component in this ink a PBT or vPvB substance.
Ozone Depleting Substances:	
Other advice Effects	Not available

13. Disposal considerations

Waste must be disposal of in accordance with federal, state and local regulations.

14. Transport information

UN Number	Not restricted
UN Proper Shipping Name	Not restricted
Transport Hazard Class	Not restricted
Packing Group	Not restricted

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4 of 6

Safety Data Sheet
GEL X-TREME WHITE**YASUTOMO**

Revised: 01/08/2023

Packing Group	Not restricted
Environmental Hazards	Not restricted
Special Precautions for User	Wear protection tools for personal safe in Section 8.
Transport according to Annex II of MARPOL 73/78 and the IBC Code:	Not Hazard Item, Not restricted

15. Regulatory information

Inventory Status: All components are listed on ENCS, TSCA, DSL, ECL, ECN, IECSC, and EINECS/ELINCS.

(EU Information)

(EC) 2037/2000: Not Required

(EC) 304/2003: Not Required

2002/95/EC: None

REACH SVHC (Until 10th candidate list): None

(USA Information)

SARA Title III §302: None

§304: None

§313: None

California Proposition 65: None

HMIS Rating: Health: 1 Flammability: 0 Reactivity: 0 Personal Protection: C

NFPA Rating: Health: 1 Flammability: 0 Reactivity: 0

16. Other informations

Literature References:

- * ACGIH Threshold Limit Values for Chemicals Substances and Physical Agents and Biological Exposure Indices.
- * ILO Occupational Safety and Health Series 37 "occupational Exposure Limits for Airborne Toxic Substances"
- * World Health Organization International Agency for Research on cancer, IARC Monographs on the Carcinogenic Risk of Chemicals to humans
- * EU Directive 76/769/EEC, 67/548/EEC, 2009/2/EC
- * EU Regulation (EC)2037/2000, (EC)304/2003, (EC) 1272/2008

Safety Data Sheet
GEL X-TREME WHITE**YASUTOMO**

Revised: 01/08/2023

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6 of 6

Safety Data Sheet
METALLIC GEL-XTREME (SILVER, GOLD)

YASUTOMO

Revised: 01/09/2023

01. Identification of the substance / preparation and of the company

Product: METALLIC GEL X-TREME (SILVER, GOLD)
Use: See product designation
Company: YASUTOMO
 3740 SKYPARK DRIVE
 TORRANCE, CA 90505
Phone: (310) 791-1995
Fax: (310) 791-1025
eMail: csr@yasutomo.com
Homepage: www.yasutomo.com
Emergency phone: 911

02. HAZARDS IDENTIFICATION

CLP/GHS Classification

Health	Environmental	Physical
Not Classified or Out of category	Not Classified or Out of category	Not Classified or Out of category

Pictogram by CLP/GHS : None

Hazard Statements	Precautionary Statements
	P264: Wash hands thoroughly after handling. P280: Wear protective gloves/protective clothing/eye protection/face protection. P273: Avoid release to the environment.

PBT substance and vPvB substance:

No component of this ink a PBT or vPvB substance under Regulation(ec) 1907/2006

03. COMPOSITION / INFORMATION ON INGREDIENTS

Substance	EINECS/ELINCS	CAS	Range [%]	Symbol / R-phr.
ALUMINUM PASTE + STEARIC ACID	231-072-3 +266-928-5	7429-90-5 + 57-11-4	5~10	
C.I PIGMENT YELLOW 83	226-939-8	5567-15-7	10~20	
Glycerin	200-289-5	56-81-5	10~20	
1,2-BENZISOTHAZOL-3(2H)-ONE	220-120-9	2634-33-5	0.005	
WATER	215-185-5	7732-18-5	30~40	

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Page 1 of 5

Safety Data Sheet
METALLIC GEL X-TREME (SILVER, GOLD)

YASUTOMO

Revised: 01/09/2023

04. First aid measures

Inhalation	None
Skin Contact	Immediately rinse skin with water. Get medical advice and attention if you feel unwell. Wash with plenty of soap and water.
Eye Contact	If skin irritation or rash occurs, get medical advice and attention. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Ingestion	When the ocular stimulation lasts, Seek medical treatment and advice. Rinse mouth. Do NOT induce vomiting. Get medical advice and attention if you feel unwell.

05. Fire-fighting measures

Extinguishing Media	Dry chemicals, CO ₂ , water spray or regular foam.
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06. Accidental release measures

Personal Precautions	Avoid contact with skin, eyes and clothing. Avoid breathing vapor and mist. (Also see Section 8). Do not touch damaged container or leakage thing if you do not wear appropriate Protective clothes.
Environmental Precautions	Do not release to sewer, surface water or ground water.
Method and Materials for Containment and Clean up:	After it is made to absorb to cloth or sand, it flushes with bags of water. In this case, it is noted that a thick liquid doesn't flow out to the river and drainage, etc.

07. Handling and storage

Precautions for Safe Handling:	The worker wears an appropriate protection tool, and avoids contact and the inhalation into eyes and the skins (Also see Section 8).\
Conditions for Stable Storage	The storage container must closely stop it, and be grounded and bonded. Store away from low temperature less than its melting point and high temperature below 50 oC.

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Page 2 of 5

Safety Data Sheet
METALLIC GEL X-TREME (SILVER, GOLD)

YASUTOMO

Revised: 01/09/2023

08. Exposure controls / personal protection

Respiratory protection	Chemical resistant masks.
Hand protection	Rubber gloves.
Eye protection	Chemical safty goggles.
Skin protection	Impervious clothing..
General protective measures	Do not inhale vapours. Avoid contact with eyes and skin.
Hygiene measures	Always wash up before handling product and before eating, drinking, smoking or using the restroom
Delimitation and monitoring of the environmental exposition	Not determinated.

09. Physical and chemical properties

Form:	Liquid paste.
Appearance/Odour:	Metallic-SILVER, GOLD, BRONZE, PINK, BLUE, GREEN. VIOLET
pH-value:	7~9
Boiling point [°C]:	ca. 100
Flash point [°C]:	-15
Flammability:[°C] :	None
Lower explosion limit:	ca. 0,8 Vol.%
Upper explosion limit:	ca. 8,0 Vol.%
Combustible properties:	No.
Vapour pressure [kPa]:	no data available
Density [g/ml]:	no data available
Solubility in water:	Complete.
Partition coefficient: n- octanol/ water:	Not determinated.
Viscosity:	> 2,000mPa.s (25°C)
Relative vapour density determined in air:	ca. 3,3
Evaporation speed:	ca. less than 1
Melting point [°C]:	Not determinated.
Auto ignition temperature [°C]:	Not applicable.
Decomposition temperature [°C]:	Not applicable.
pH-value, 1%	Not applicable.
Bulk density [kg/m³]:	Not applicable.

Safety Data Sheet
METALLIC GEL X-TREME (SILVER, GOLD)

YASUTOMO

Revised: 01/09/2023

10. Stability and reactivity

Reactivity	No data available
Chemical stability	No decomposition, if used according to specifications.
Possibility of Hazardous Reaction	No data available
Incompatible Substances or Mixtures	No data available
Hazardous Decomposition Products	No data available

11. Toxicological information

Acute Toxicity	Inhalation: Not available Ingestion: Not available Eyes: May causes irritation transiently, but will be weakly harmful. Skin: Will be weakly harmful.
Sensitization:	No data available
Mutagenicity	None (estimate)
Reproductive Toxicity:	No data available
Carcinogenicity:	No data available
Other Information	None

12. Ecological information

Toxicity:	No data available
Persistence /Degradability: Not available	No data available
Bioaccumulation	: Not expected to accumulate in biological organisms
Mobility:	Not mobile soil. Pigment does not dissolve in water.
PBT and vPvB:	No component in this ink a PBT or vPvB substance.
Ozone Depleting Substances:	
Other advice Effects	Not available
Waste must be disposal of in accordance with federal, state and local regulations.	

14. Transport information

UN Number	Not restricted
UN Proper Shipping Name	Not restricted
Transport Hazard Class	Not restricted
Packing Group	Not restricted
Packing Group	Not restricted
Environmental Hazards	Not restricted
Special Precautions for User	Wear protection tools for personal safe in Section 8.
Transport according to Annex II of MARPOL 73/78 and the IBC Code:	Not Hazard Item, Not restricted

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Page 4 of 5

Safety Data Sheet
METALLIC GEL- X-TREME (SILVER, GOLD)**YASUTOMO**

Revised: 01/09/2023

15. Regulatory information

Inventory Status: All components are listed on ENCS, TSCA, DSL, ECL, ECN, IECSC, and EINECS/ELINCS.

(EU Information)

(EC) 2037/2000: Not Required

(EC) 304/2003: Not Required

2002/95/EC: None

REACH SVHC (Until 10th candidate list): None

(USA Information)

SARA Title III §302: None

§304: None

§313: None

California Proposition 65: None

HMIS Rating: Health: 1 Flammability: 0 Reactivity: 0 Personal Protection: C

NFPA Rating: Health: 1 Flammability: 0 Reactivity: 0

16. Other informations

Literature References:

* ACGIH Threshold Limit Values for Chemicals Substances and Physical Agents and Biological Exposure Indices.

* ILO Occupational Safety and Health Series 37 "occupational Exposure Limits for Airborne Toxic Substances"

* World Health Organization International Agency for Research on cancer, IARC Monographs on the Carcinogenic

Risk of Chemicals to humans

* EU Directive 76/769/EEC, 67/548/EEC, 2009/2/EC

* EU Regulation (EC)2037/2000, (EC)304/2003, (EC) 1272/20

Safety Data Sheet
METALLIC GEL X-TREME

YASUTOMO

Revised: 01/09/2023

01. Identification of the substance / preparation and of the company

Product: METALLIC GEL X-TREME
Use: See product designation
Company: YASUTOMO
 3740 SKYPARK DRIVE
 TORRANCE, CA 90505
Phone: (310) 791-1995
Fax: (310) 791-1025
eMail: csr@yasutomo.com
Homepage: www.yasutomo.com
Emergency phone: 911

02. HAZARDS IDENTIFICATION**CLP/GHS Classification**

Health	Environmental	Physical
Not Classified or Out of category	Not Classified or Out of category	Not Classified or Out of category

Pictogram by CLP/GHS : None

Hazard Statements	Precautionary Statements
	P264: Wash hands thoroughly after handling. P280: Wear protective gloves/protective clothing/eye protection/face protection. P273: Avoid release to the environment.

PBT substance and vPvB substance:

No component of this ink a PBT or vPvB substance under Regulation(ec) 1907/2006

03. COMPOSITION / INFORMATION ON INGREDIENTS

Substance	EINECS/ELINCS	CAS	Range [%]	Symbol / R-phr.
ALUMINUM PASTE + STEARIC ACID	231-072-3 +266-928-5	7429-90-5 + 57-11-4	5~10	
C.I PIGMENT YELLOW 83	226-939-8	5567-15-7	10~20	
C.I PIGMENT BLUE 15:3	205-685-1	147-14-8	10~20	
C,I, PIGMENT RED 170	220-509-3	2786-76-7	10~20	

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Page 1 of 5

Safety Data Sheet
METALLIC GEL X-TREME

YASUTOMO

Revised: 01/09/2023

Substance	EINECS/ELINCS	CAS	Range [%]	Symbol / R-phr.
C.I. PIGMENT VIOLET 23	228-767-9	6358-30-1	10~20	
Glycerin	200-289-5	56-81-5	20~30	
1,2-BENZISOTHAZOL-3(2H)-ONE	220-120-9	2634-33-5	<0.005	
WATER	215-185-5	7732-18-5	40~50	

04. First aid measures

Inhalation	None
Skin Contact	Immediately rinse skin with water. Get medical advice and attention if you feel unwell. Wash with plenty of soap and water.
Eye Contact	If skin irritation or rash occurs, get medical advice and attention. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Ingestion	When the ocular stimulation lasts, Seek medical treatment and advice. Rinse mouth. Do NOT induce vomiting. Get medical advice and attention if you feel unwell.

05. Fire-fighting measures

Extinguishing Media	Dry chemicals, CO ₂ , water spray or regular foam.
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06. Accidental release measures

Personal Precautions	Avoid contact with skin, eyes and clothing. Avoid breathing vapor and mist. (Also see Section 8). Do not touch damaged container or leakage thing if you do not wear appropriate Protective clothes.
Environmental Precautions	Do not release to sewer, surface water or ground water.
Method and Materials for Containment and Clean up:	After it is made to absorb to cloth or sand, it flushes with bags of water. In this case, it is noted that a thick liquid doesn't flow out to the river and drainage, etc.

Safety Data Sheet
METALLIC GEL X-TREME
YASUTOMO

Revised: 01/09/2023

07. Handling and storage

Precautions for Safe Handling:	The worker wears an appropriate protection tool, and avoids contact and the inhalation into eyes and the skins (Also see Section 8).\
Conditions for Stable Storage	The storage container must closely stop it, and be grounded and bonded. Store away from low temperature less than its melting point and high temperature below 50 oC.

08. Exposure controls / personal protection

Respiratory protection	Chemical resistant masks.
Hand protection	Rubber gloves.
Eye protection	Chemical safty goggles.
Skin protection	Impervious clothing..
General protective measures	Do not inhale vapours. Avoid contact with eyes and skin.
Hygiene measures	Always wash up before handling product and before eating, drinking, smoking or using the restroom
Delimitation and monitoring of the environmental exposition	Not determinated.

09. Physical and chemical properties

Form:	Liquid paste.
Appearance/Odour:	Metallic-SILVER, GOLD, BRONZE, PINK, BLUE, GREEN. VIOLET
pH-value:	7~9
Boiling point [°C]:	ca. 100
Flash point [°C]:	-15
Flammability:[°C] :	None
Lower explosion limit:	ca. 0,8 Vol.%
Upper explosion limit:	ca. 8,0 Vol.%
Combustible properties:	No.
Vapour pressure [kPa]:	no data available
Density [g/ml]:	no data available
Solubility in water:	Complete.
Partition coefficient: n- octanol/ water:	Not determinated.
Viscosity:	> 2,000mPa.s (25°C)
Relative vapour density determined in air:	ca. 3,3

Safety Data Sheet
METALLIC GEL X-TREME
YASUTOMO

Revised: 01/09/2023

Evaporation speed:	ca. less than 1
Melting point [°C]:	Not determined.
Auto ignition temperature [°C]:	Not applicable.
Decomposition temperature [°C]:	Not applicable.
pH-value, 1%	Not applicable.
Bulk density [kg/m ³]:	Not applicable.

10. Stability and reactivity

Reactivity	No data available
Chemical stability	No decomposition, if used according to specifications.
Possibility of Hazardous Reaction	No data available
Incompatible Substances or Mixtures	No data available
Hazardous Decomposition Products	No data available

11. Toxicological information

Acute Toxicity	Inhalation: Not available Ingestion: Not available Eyes: May causes irritation transiently, but will be weakly harmful. Skin: Will be weakly harmful.
Sensitization:	No data available
Mutagenicity	None (estimate)
Reproductive Toxicity:	No data available
Carcinogenicity:	No data available
Other Information	None

12. Ecological information

Toxicity:	No data available
Persistence /Degradability: Not available	No data available
Bioaccumulation	: Not expected to accumulate in biological organisms
Mobility:	Not mobile soil. Pigment does not dissolve in water.
PBT and vPvB:	No component in this ink a PBT or vPvB substance.
Ozone Depleting Substances:	
Other advice Effects	Not available

Safety Data Sheet
METALLIC GEL X-TREME

YASUTOMO

Revised: 01/09/2023

13. Disposal considerations

Waste must be disposal of in accordance with federal, state and local regulations.

14. Transport information

UN Number	Not restricted
UN Proper Shipping Name	Not restricted
Transport Hazard Class	Not restricted
Packing Group	Not restricted
Packing Group	Not restricted
Environmental Hazards	Not restricted
Special Precautions for User	Wear protection tools for personal safe in Section 8.
Transport according to Annex II of MARPOL 73/78 and the IBC Code:	Not Hazard Item, Not restricted

15. Regulatory information

Inventory Status: All components are listed on ENCS, TSCA, DSL, ECL, ECN, IECSC, and EINECS/ELINCS.

(EU Information)

(EC) 2037/2000: Not Required

(EC) 304/2003: Not Required

2002/95/EC: None

REACH SVHC (Until 10th candidate list): None

(USA Information)

SARA Title III §302: None

§304: None

§313: None

California Proposition 65: None

HMIS Rating: Health: 1 Flammability: 0 Reactivity: 0 Personal Protection: C

NFPA Rating: Health: 1 Flammability: 0 Reactivity: 0

16. Other informations

Literature References:

* ACGIH Threshold Limit Values for Chemicals Substances and Physical Agents and Biological Exposure Indices.

* ILO Occupational Safety and Health Series 37 "occupational Exposure Limits for Airborne Toxic Substances"

* World Health Organization International Agency for Research on cancer, IARC Monographs on the Carcinogenic

Risk of Chemicals to humans

* EU Directive 76/769/EEC, 67/548/EEC, 2009/2/EC

* EU Regulation (EC)2037/2000, (EC)304/2003, (EC) 1272