87314-1001

Safety Data Sheet

acc. to OSHA HCS

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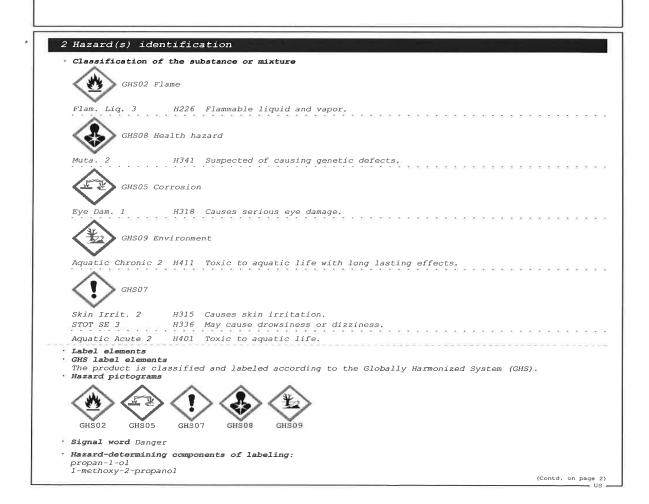
1 Identification

- Product identifier
- Trade name: Ink for PM-701 Permanent Marker (Black)
- Article number: 100000001129
- Relevant identified uses of the substance or mixture and uses advised against Currently no such applications are identified
 Application of the substance / the mixture alcohol based permanent marking ink

- Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Manufacturer/Supplier:
ZEBRA CO., LTD.
2-9 Higashi-gokencho Shinjuku-ku Tokyo JAPAN
Phone:+81-3-3268-1193
Fax:+81-3-3268-1197
Emergency telephone: +81-3-3268-1193
This phone number is available only during office hours:
9am to 5:30pm (Japan time)



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Trade name:

C. I. Solvent Orange 3 Benzenesulfonic acid, 4-C10-13-sec-alkylderivs. Benzenesulfonic acid, 4-C10-13-sec-alkylderivs.

Hazard statements
Flammable liquid and vapor.
Causes skin irritation.
Causes serious eye damage.
Suspected of causing genetic defects.
May cause drowsiness or dizziness.
Toxic to aquatic life.
Toxic to aquatic life with long lasting effects.

Preceptionary statements Toxic to aquatic life with long lasting effects.

Precautionary statements

Use explosion-proof electrical/ventilating/lighting/equipment.

Avoid breathing dust/fume/gas/mist/vapors/spray

Wear protective gloves / eye protection / face protection.

Ground/bond container and receiving equipment.

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Use only non-sparking tools.

Avoid release to the environment.

Take precautionary measures against static discharge.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER/doctor.

Specific treatment (see on this label).

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

If exposed or concerned: Get medical advice/attention.

In case of fire: Use for extinction: CO2, powder or water spray.

Collect spillage.

Take off contaminated clothing and wash it before reuse.

Store locked up.

Store locked up.

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

Store in a well-ventilated place. Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:

NFPA ratings (scale 0 - 4) Health = 2Fire = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4) HEALTH 2 Health = 2 FIRE 3 Reactivity = 0 REACTIVITY 0 Other hazards

3 Composition/information on ingredients

* Chemical characterization: Mixtures

Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable

Mixture of the following substances, containing non-hazardous substances and colouring agents.

 Description:	Mixture	01 L	ne substances	iistea	Delow	WILL	nonnazardous	additions.	
Dangerous	mmonente:								_

107-98-2	1-methoxy-2-propano1	25-50%
71-23-8	propan-1-ol	25-50%
85536-14-7	Benzenesulfonic acid, 4-Cl0-l3-sec-alkylderivs.	2.5-10
84281-86-7	C. I. Solvent Violet 8	2.5-10
495-54-5	C. I. Solvent Orange 3	2.5-10
6786-83-0	C. I. Solvent Blue 4 < 0,1% Michler's Ketone	<1.08

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Trade name:

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4 First-aid measures

- Description of first aid measures
- After inhalation:
 In case of unconsciousness place patient stably in side position for transportation.

 After skin contact:

- After skin contact:
 Immediately wash with water and soap and rinse thoroughly.
 Immediately rinse with water.
 Immediately rinse with water.
 After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor, After swallowing: If symptoms persist consult doctor.
 Information for doctor:

- Most important symptoms and effects, both acute and delayed
 No further relevant information available.
 Indication of any immediate medical attention and special treatment needed
 No further relevant information available.

5 Fire-fighting measures

- : Extinguishing media
- Suitable extinguishing agents:
 CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
 Protective equipment: No special measures required.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
- Wear protective equipment. Keep unprotected persons away Wear protective clothing.
 Environmental precautions:

- Inform respective authorities in case of seepage into water course or sewage system.
 Dilute with plenty of water.
 Do not allow to enter sewers/ surface or ground water.

 Methods and material for containment and cleaning up:
 Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
 Dispose contaminated material as waste according to item 13.
 Ensure adequate ventilation.

- Reference to other sections
 Reference to other sections
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

7 Handling and storage

- Handling:
- Precautions for safe handling
 Ensure good ventilation/exhaustion at the workplace.
 Prevent formation of aerosols.
- Information about protection against explosions and fires: Keep ignition sources away Do not smoke. Protect against electrostatic charges.
- Conditions for safe storage, including any incompatibilities
- Storage:
- Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- Control parameters
- Components with limit values that require monitoring at the workplace:
 The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
- At this time, the other constituents have no known exposure limits.

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Trade name:

(Contd. of page 3) 107-98-2 1-methoxy-2-propanol (25-50%) Short-term value: $540~\text{mg/m}^3$, 150~ppmLong-term value: $360~\text{mg/m}^3$, 100~ppmShort-term value: 369 mg/m³, 100 ppm Long-term value: 184 mg/m³, 50 ppm 71-23-8 propan-1-ol (25-50%) Long-term value: 500 mg/m³, 200 ppm Short-term value: 625 mg/m³, 250 ppm Long-term value: 500 mg/m³, 200 ppm RELSkin Long-term value: 246 mg/m³, 100 ppm

- · Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls
- Personal protective equipment: General protective and hygienic measures:

General protective and hygienic measures:
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the skin.
Avoid contact with the eyes and skin.
Breathing equipment:
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the

preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and

the degradation
Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has

to be observed.

Eye protection:



Tightly sealed goggles

 Information on basic physical and chemi General Information 	cal properties
~ -	
* Appearance: Form:	Fluid
Color:	According to product specification
Odor:	Product specific
Odor threshold:	Not determined.
Important information on protection of :	health and
environment, and on safety.	(a)
	Not determined.
pH-value:	
pH-value:	
pH-value: Change in condition	Not determined,
PH-value: Change in condition Melting point/Melting range:	Not determined. Undetermined.
PH-value: Change in condition Melting point/Melting range: Boiling point/Boiling range:	Not determined. Undetermined. 96 °C (205 °F)

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Trade name:

	(Contd. of pag
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting,
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
Explosion limits: Lower: Upper:	1.7 Vol % 13.5 Vol %
Vapor pressure at 20 °C (68 °F):	19 hPa (14 mm Hg)
Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate	0.85 g/cm³ (7.093 lbs/gal) Not determined. Not determined. Not determined.
 Solubility in / Miscibility with Water: 	Fully miscible.
Partition coefficient (n-octanol/water):	Not determined,
· Viscosity: Dynamic at 20 °C (68 °F): Kinematic:	4.5 mPas Not determined.
Solvent content: Organic solvents:	80.1 %
Solids content: • Other information	14.8 % The physical and chemical properties given in Section 9.1 are rough data only, which are partially derived from the component's data of the mixture. These data are no binding product specifications.

10 Stability and reactivity

- Reactivity No further relevant information available.
- Chemical stability

- Chemical stability
 Thermal decomposition / conditions to be avoided:
 No decomposition if used according to specifications.
 Possibility of hazardous reactions No dangerous reactions known.
 Conditions to avoid No further relevant information available.
 Incompatible materials: No further relevant information available.
 Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- Information on toxicological effects
- Acute toxicity:

71-23-8 pro	pan-1-01		
Oral	LD50	8000 mg/kg (rat)	
Dermal	LD50	4000 mg/kg (rab)	
Inhalative	LC50/4 h	33.8 mg/l (rat)	
85536-14-7	Benzenesu.	lfonic acid, 4-C10-13-sec-alkylderivs.	
Oral	LD50	1350 mg/kg (rat)	
84281-86-7	C. I. Sol	vent Violet 8	
Oral	LD50	700 mg/kg (rat)	

- Primary irritant effect:
 on the skin: Irritant to skin and mucous membranes.
 on the eye: Strong irritant with the danger of severe eye injury.
 Sensitization: No sensitizing effects known.
 Additional toxicological information:
 The product shows the following dangers according to internally approved calculation methods for preparations:
 Irritant
- Carcinogenic categories

IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

NTP (National Toxicology Program)

None of the ingredients is listed.

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Trade name:

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

Toxicity
Aquatic toxicity: No further relevant information available.
Persistence and degradability No further relevant information available.
Behavior in environmental systems:
Bioaccumulative potential No further relevant information available.
Mobility in soil No further relevant information available.
Ecotoxical effects:
Remark: Toxic for fish
Additional ecological information:
General notes:

Additional ecological information:

General notes:
Water hazard class 3 (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities,
Danger to drinking water if even extremely small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms
Results of PBT and vPvB assessment
PBT: Not smallicable

- PBT: Not applicable.
 vPvB: Not applicable.
 Other adverse effects No further relevant information available.

13 Disposal considerations

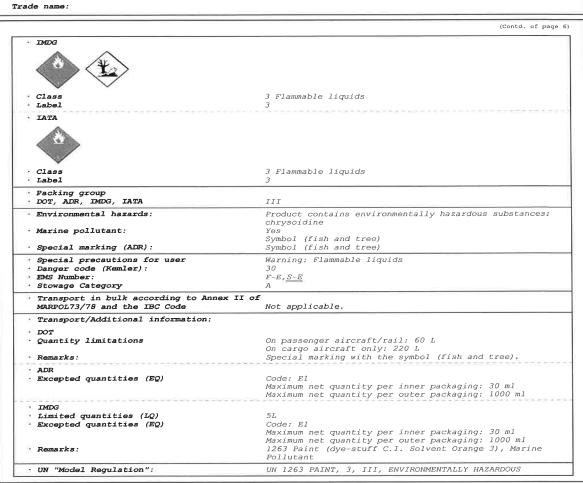
- · Waste treatment methods
- Recommendation:
- Must not be disposed of together with household garbage. Do not allow product to reach sewage
- Uncleaned packagings:
 Recommendation: Disposal must be made according to official regulations.
 Recommended cleansing agent: Water, if necessary with cleansing agents.

· UN-Number	
DOT, ADR, IMDG, IATA	UN1263
UN proper shipping name	
DOT	Paint
* ADR	1263 Paint, ENVIRONMENTALLY HAZARDOUS
· IMDG	PAINT (chrysoidine), MARINE POLLUTANT
IATA	PAINT
Transport hazard class(es)	
DOT	
A AV	
(¥2)	
Class	2 Flormable 1/covide
Label	3 Flammable liquids
· ADR	
(*) (<u>*</u>)	
Class	3 (F1) Flammable liquids

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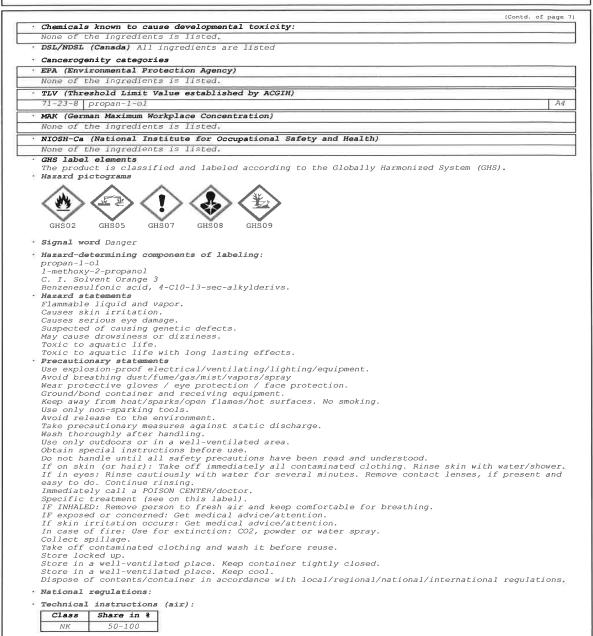
·	Safety, health and environmental regulations/legislation specific for the substance or mixture Sara
	Section 355 (extremely hazardous substances):
	None of the ingredient is listed.
a -	Section 313 (Specific toxic chemical listings):
	None of the ingredients is listed.
79.	TSCA (Toxic Substances Control Act):
	All ingredients are listed.
	Proposition 65
	Chemicals known to cause cancer:
	None of the ingredients is listed.
	Chemicals known to cause reproductive toxicity for females:
	None of the ingredients is listed.

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Trade name:



Water hazard class: Water hazard class 3 (Self-assessment): extremely hazardous for water. (Contd

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Trade name:

Themical safety assessment: A Chemical Safety Assessment has not been carried out.

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This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. **Date of preparation / last revision 06/14/2016 / 17 **Abbreviations and accropyms: **RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DOR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) IADA: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Coll Naviation Organisation (ICA) ADA: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport disting IATA: International Air Transportation IATA: International Air Transport (Edition of Augustia) IATA: International Air Transport (Commercial Loudstrial Hydienists ELINOS: European List of Notified Chemical Substances ELINOS: European List of Notified Chemical Subst

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