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Safety Data Sheet

(In according with 91/155/EEC)

1. Identification of the Substance/Preparation/Company

Product details

Trade name: Permanent Marking Ink/MI-38-R RED

Product type:_

Manufacturer /Supplier:

Shanghai University Special Ink R&D Department

No.149 Yanchang Road.Shanghai,China

Phone :86-21-56331532 Fax: 86-21-56381955

www.inksh.com

Further information obtainable from:

Technical service, Rosebort TEL.:86-021-56331532 Mobile: 86-13761677741

Information in case of emergency:

TEL.:86-13761677741

2. Hazards identification



F Highly flammable

Information concerning particular hazards for human and environment:

The product has to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 11 Highly flammable

Classification system:

The classification is according to the latest editions of the EU-lists , and extended by company and literature data.

3. Composition /information on ingredients

Chemical characterization

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

Description : Mixture of substances listed below with nonhazardous additions

Components:				
EINECS/ELINCS	CAS	Common Name	Classification	Cone.
	67-63-0	ISOPROPANOL	F; R11	37%

64-17-5	ETHANOL	F; R11	30%
111-46-6	DIETHYLENE GLYCOL	F; R11s	30%
12227-55-3	C.I. SOLVENT RED 122	Non-Dangerous	3%

Additional information: For the wording of the listed risk phrases refer to section 16.

4. First –aid measures

After inhalation: Move to fresh air. Aid in breathing, if necessary, and get immediate medical attention.

After skin contact: Wash affected area off with water or shower. Get immediate medical attention.

After eye contact : Flush eyes with generous amounts of water for at least 15 minutes, and get consult a doctor.

After swallowing: If swallowed, do not induce vomiting. Dilute with water or salt water and call a physician immediately

5. Fire –fighting measures

FIRE PERIPHERICAL: Move containers to safety place. If it is unable to move it, cool containers with water spray

FIRE: Off the fire with dry chemical foams or water spray. Firefighters should be equipped with protective apparatus and never do it under the lee

EXTINGUISHING MEDIA: Chemical foam, dry powder, CO2, water, dry sand

6. Accidental release measure

Shut off all sources of ignition; No flares, smoking or flames in area

Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container with covers for disposal, using no sparking tools and wash off with a plenty of water. Wear a protective clothes and gloves while working and never do it under the lee. Exercise reasonable care and attention not to drain waste water into the river.

7. Handling and storage

HANDLING:

No flares, smoking or flames in area. Avoid spark and contact with strong acid.

Sufficient ventilation should be done in the working zone, should close the container tightly after working. Avoid to leaking, flooding, scattering and evaporation

Take precautionary measures against static discharge. Wear an electric conductor type clothe and shoes. Don't handle the containers roughly

STORAGE:

The protective type electrical appliances should be used and appliances should be earthed.

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It should be stored in a cool place and be kept in a tightly closed container, protected from physical damage, and away from oxidizing materials and sources of ignition.

OTHERS: Follow all federal, provincial and local requirements and regulations.

Store in cool, dry conditions in well sealed receptacles.

8. Exposure controls / personal protection

	<u>Ethanol</u>	propan-2-ol
Managed density		400ppm
Permissible density by Japan		
Society for Occupational Health		400ppm(980g/m ³)
ACGIH (TLV)	TWA 1000ppm	TWA 400ppm
OSHA (PEL)	air TWA 1000ppm	air TWA 400ppm

ENGINEERING MEASURES

Close the container tightly in case of using in room or doing sufficient ventilation.

Install the safety shower, hand washing apparatus and eyes washable apparatus near to working area.

STORAGE:

Close the container tightly in case of using in room or doing sufficient ventilation.

Install the safety shower, hand washing apparatus and eyes washable apparatus near to working area.

PERSONAL PROTECTIVE EQUIPMENT:

RESPIRATORY PROTECTION: NIOSH/MSHA-Approved organic vapor respirator

EYE PROTECTION: Chemical goggles.

HAND, SKIN AND BODY PROTECTION: Gloves, Coveralls, apron, Boots

9. Physical and chemical properties

Dynamic at 25°C: 7.0 ± 1.5 mPa·s

General Information		
Form: liquid		
Colour: RED		
Odour : Solvent odor		
Change in condition		
Melting point /Melting range: N/A		
Boiling point /Boiling range: $78~^{0}\mathrm{C}$		
Flash point: 12℃		
Self-igniting: product is not selfigniting		
Vapour pressure : N/A		
Density: Not determined		
Solubility in /Miscibility with		
Water: Mixed		
Viscosity:		

10. Stability and reactivity

HAZARDOUS DATA	ETHANOL	propan-2-ol
OF SOLVENT		
Flash point	19℃(closed)	12℃(closed)
Explosion limit:		
Upper	19	11.8
Lower	3.3	2.0
Ignition Point	371∼427℃	399℃
Note) Explosion limit: volume%		

STABILITY AND REACTIVITY: Stable under room temperature.

React to strong acid and may occur fire and explosion.

11. Toxicological information

	ETHANOL	propan-2-ol
ACUTE TOXICITY		
ORAL-Rat LD50	7060mg/kg	5040mg/kg
STIMULUS EFFECTS		
EYE-Rabbit	500mg Heavy	10mg Middle
SKIN-Rabbit	400mg Middle	500mg Slight
TERATOGENICITY	N/A	N/A
CARCINOGENIC	N/A	N/A

CHRONIC TOXICITY: Repetition or contact on the prolonged skin may start dermatitis.

12. Ecological information

BIODEGRADABILITY: N/A

FISH TOXICITY: N/A

ACCUMULATION NATURE: Ethanol; Octoanol/Water distribution coefficient log Pow: 0.32

13. Disposal considerations

Treatment should be done in accordance with the method noted on Chapter 7.

When discarding, in accordance with an industrial-waste-treatment standard, it destroys by fire. In outsourcing, it specifies that it is waste oil (flammable), and it commissions it to the industrial waste treatment company. who obtained permission of authorities.

14. Transport information

On the occasion of transportation, it confirms that there is no leak in a container and package, it loads that

there may not be a fall, drop, and damage, and collapse-of-cargo-piles prevention is ensured.

In addition, the place set to statutes, such as labor security and hygiene law and Fire Service Law, permission is followed.

15. Regulatory information

Labeling according to EU guidelines:

The preparation is classified Highly Flammable according European Directive about hazardous preparations 99/45/EC with his adaptations".

Code letter and hazard designation of product:



F Highly flammable

Risk phrases:

R 11 Highly flammable

Safety phrases:

S2 Keep out of the reach of children

S9 Keep container in a well-ventilated place.

S29/56 Do not empty into drain , dispose of this material and its container at hazardous or special

waste collection point

S46 If swallowed, seek medical advice immediately and show this container or label.

S16 Keep away from sources of ignition – No smocking.

Others: Containers carry a tactile warning of danger

National regulations:

16. Other information

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.