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Updated : February 17, 2003

MSDS No. : MS-00191801-00

## SECTION 1 IDENTIFICATION

MANUFACTURER TAIYO INK MFG. CO., LTD. TEL 81-3-5999-1511  
2-7-1. HAZAWA, NERIMA-KU FAX 81-3-5999-1501  
TOKYO 176-8508, JAPAN

DISTRIBUTOR

EMERGENCY CONTACT TEL 81-493-61-2832 FAX 81-493-61-2833

## SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS No.	CONTENTS(%)	OSHA (PEL)	ACGIH (TLV)
Solvent naphtha(petroleum), Heavy arom.	64742-94-5	<13%	N. A.	N. A.
Morpholine derivative	Trade secret	< 5%	N. A.	N. A.

## SECTION 3 HAZARDS IDENTIFICATION

INHALATION : Highly concentrated vapor irritates nose, throat and lungs.  
May cause headache and dizziness.

EYE CONTACT : Slight irritation

SKIN CONTACT : Slight irritation

INGESTION : Harmful, if swallowed.

## SECTION 4 FIRST AID MEASURES

SKIN CONTACT : Wash with plenty of running water using a mild soap. Do not use organic solvents.

EYE CONTACT : Rinse immediately with clean water for at least 15 minutes.  
If irritation persists, seek medical attention.

INHALATION : Immediately carry the victim to a place where fresh air is available.  
If irritation persists, treat with oxygen and seek medical attention.

INGESTION : Obtain medical advice immediately. It is not recommended that vomiting be induced except on medical advice.

## SECTION 5 FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA : Carbon dioxide, foam, powder.

UNSUITABLE EXTINGUISHING MEDIA : Water spray and water jet.

EXPOSURE HAZARDS : Burning may release oxides of carbon, nitrogen, sulphur and other toxic gases or vapors. Do not release chemically contaminated water into drains or surface waters. Dispose of contaminated waters and soil according to local regulations.

PROTECTIVE EQUIPMENT : Use full protective clothing and self-contained breathing apparatus.

FOR FIREFIGHTERS

MEASURES : Promptly move transferable containers to another safety area. Check the speed and spread of fire. Extinguish the fire with suitable extinguisher from the windward side.

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTION : Avoid ignition sources. Avoid contact with skin, eyes and clothing. Avoid inhaling vapor.

ENVIRONMENTAL PRECAUTIONS : Prevent contamination of soil, drains and surface waters

METHODS FOR CLEANING : Scoop up or absorb into combustible material, wipe out a stain in use organic solvents. Dispose in accordance with local regulations.

SECTION 7 HANDLING AND STORAGE

HANDLING : Handle with care. Avoid ignition sources. Ensure good ventilation and local exhaust. Do not smoke at the workplace.

STORAGE : Store in the original sealed container at less than 20°C. Avoid direct exposure to UV and sunlights.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

People who know they are chemically sensitive, should avoid contact with this product.

TECHNICAL PROTECTIVE MEASURES : No special safety measures required.

EXPOSURE CONTROL LIMITS : (See PEL and TLV values shown in section 2)

RESPIRATORY PROTECTION : Wear suitable mask to avoid inhalation of vapor.

HAND PROTECTION : Wear chemical resistant gloves.

EYE PROTECTION : Wear safety glasses.

SKIN PROTECTION : Wear suitable protective working cloths.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT	: *161°C (760mmHg)	COLOR	: Orange
FLASH POINT	: 79.0°C (Seta C.C.)	FORM	: Paste
VAPOR PRESSURE	: * 2.00mmHg( 38°C)	VAPOR DENSITY	: * 6.12 (Air=1)
SOLUBILITY IN WATER	: * < 24.2wt%	ODOR	: Mild odor
		SPECIFIC GRAVITY	: N.E.

\*Data of the organic solvents or monomers contained in this product is quoted.

SECTION 10 STABILITY AND REACTIVITY

STABILITY : Stable

CONDITIONS TO AVOID : Heat and sunlight.

MATERIALS TO AVOID : Strong acids, strong bases, peroxids and strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS : Burning may release oxides of carbon, nitrogen, sulphur and other toxic gases or vapors.

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SECTION 11 TOXICOLOGICAL INFORMATION

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## PRIMARY ROUTE(S) OF ENTRY

☒ DERMAL ☒ INHALATION ☐ INGESTION

TOXICITY STUDIES : Toxicity studies have not been carried out on this product. Toxicity information available for the ingredients listed in section 2 is given below.

## HEALTH HAZARDS

ACUTE INGESTION TOXICITY : N.E.  
ACUTE SKIN IRRITATION : Slightly irritant  
MUTAGENICITY : NONE

## CARCINOGENICITY

☐ NTP ☐ IARC ☐ OSHA ☒ NOT LISTED

## SYMPTOMS OF OVER EXPOSURE

INHALATION : Slight irritation to respiratory tract. Highly concentrated vapor may cause headaches, dizziness, and nausea.  
EYES : Slight irritation  
SKIN : Slight irritation  
INGESTION : Expected to have a low order of toxicity.

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SECTION 12 ECOLOGICAL INFORMATION

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ACUTE FISH TOXICITY : Ecological data are not available  
BIODEGRADABILITY : U.K.

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SECTION 13 DISPOSAL CONSIDERATIONS

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Incineration or landfill in accordance with local regulations.

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SECTION 14 TRANSPORT INFORMATION

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ADR : Inflammable Liquid  
IMDG-CODE : Free  
IATA : Free  
US DOT : Combustible Liquid  
UN : Free  
FLASH POINT : 79.0°C (Seta C.C.)

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SECTION 15	REGULATORY INFORMATION
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EEC LABELING	: Xn=Harmful  N = Dangerous for the environment
RISK PHRASES	: R65-Harmful:may cause lung damage if swallowed. R51/53 - Toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment.
SAFETY PHRASES	: S24 - Avoid contact with skin. S23 - Do not breathe vapour. S62 - If swallowed, do not induce vomiting : seek medical advice immediately and show this container or label. S61 - Avoid release to the environment. Refer to special instructions/Safety data sheets. S60 - This material and its container must be disposed of as hazardous waste.
TSCA/EINECS	: Substances contained in this product are listed on the EINECS inventories.

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SECTION 16	OTHER INFORMATION
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This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with any legal regulation. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties. It may not be valid for this material, if used in combination with any other materials.

Data provided in Section 11,12 and 15 are quoted from raw materials MSDSs.