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MSDS No. : MS-00232501-01

SECTION 1 IDENTIFICATION

MANUFACTURER TAIYO INK MFG. CO., LTD. TEL 81-493-61-2832

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Saitama, 355-0215 JAPAN

DISTRIBUTOR

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SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS No. C	ONT	ENTS(%)	OSHA (PEL)	ACGIH (TLV)
Epoxy resin(MW ≤ 700)	Trade secret	<	6%	N. A.	N. A.
Bisphenol A-(epichlorhydrin);Epoxy resin(MW≤700)					
	25068-38-6	<	2%	N. A.	N. A.
Talc containing no asbestiform fibers					
	14807-96-6	<	5%	20mppcf	2mg/m3(R)
Barium Sulfate	7727-43-7	<	8%	dust 15mg/m3	$10 \mathrm{mg/m3}$
Silica crystalline	14808-60-7	<	14%	$0.1 \mathrm{mg/m3}$ (R)	$0.025 \mathrm{mg/m3}(R)$
Silica, amorphous	Trade secret	<	2%	N. A.	${\tt dustTLV10mg/m3}$

SECTION 3 HAZARDS IDENTIFICATION

INHALATION : Highly concentrated vapor irritates nose, throat and lungs.

May cause headache and dizziness.

EYE CONTACT : Slight irritation SKIN CONTACT : Sensitization

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 EXITINGUISHING 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

FOR FIREFIGHTERS

MEASURES

: Use full protective clothing and self-contained

breathing apparatus.

: 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 inhalating vapor.

ENVIRONMENTAL PRECAUTIONS

METHODS FOR CLEANING

: Prevent contamination of soil, drains and surface waters

: 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

15℃. 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 : *137°C (760mmHg) COLOR : Yellow FLASH POINT : 140.0℃ (Cleveland O.C.) FORM : Paste

VAPOR PRESSURE : * 0.05mmHg(20℃) VAPOR DENSITY : * 6.12 (Air=1)SOLUBILITY IN WATER : *< 20.2wt% ODOR : Mild odor

SPECIFIC GRAVITY: 1.4 - 1.6

*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.

SECTION 11 TOXICOLOGICAL INFORMATION

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 : Epoxy resin(MW ≤ 700)

Bisphenol A-(epichlorhydrin); Epoxy resin(MW ≤ 700)

are suspected to have mutagenicity.

CARCINOGENICITY

■ NTP ■ IARC □ OSHA □ NOT LISTED

Silica crystalline

mentioned at Section 2 is classified to a carcinogen, because of the specific state furnished in a powder form and which causes lung cancer, due to the direct inhalation. This case, it is mixed together with other substances and which is furnished in a liquid preparation, having no capability of allowing any direct inhalation of Silica crystalline itself. This material furnished in a liquid preparation has no potential to cause any lung cancers.

SYMPTOMS OF OVER EXPOSURE

INHALATION : Slight irritation to respiratory tract. Highly

concentrated vapor may cause headaches, dizziness,

and nausea.

EYES : Slight irritation SKIN : Sensitization

INGESTION : Expected to have a low order of toxicity.

SECTION 12 ECOLOGICAL INFORMATION

ACUTE FISH TOXICITY : Ecological data are not available

BIODEGRADABILITY : U.K.

SECTION 13 DISPOSAL CONSIDERATIONS

Incineration or landfill in accordance with local regulations.

SECTION 14 TRANSPORT INFORMATION

IMDG-CODE : Free IATA : Free UN : Free

FLASH POINT : 140.0% (Cleveland O.C.)

SECTION 15	REGULATORY INFORMATION			
EEC LABELING	: Xi=Irritant			
RISK PHRASES	: R43 - May cause sensitization by skin contact.			
SAFETY PHRASES	: S37/39 - Wear suitable gloves and eye/face protection. S28 - After contact with skin, wash immediately with plenty of water and soap.			
TSCA	: ■ on TSCA □ on LVE □ NOT LISTED			
EINECS	: ■on EINECS □on ELINCS □NOT LISTED			
SECTION 16	OTHER INFORMATION			

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.

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

Please kindly contact to our local sales office/distributor in case if you plan to export this product before use.