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Updated : October 25, 2010

MSDS No. : MS-00220501-02

SECTION 1 IDENTIFICATION

MANUFACTURER TAIYO INK MFG. CO., LTD. TEL 81-493-61-2832
 900 Hirasawa, Ranzan-machi, Hiki-gun FAX 81-493-61-2833
 Saitama, 355-0215 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	< 11%	N. A.	N. A.
Naphthalene(Carc. Cat. 3;R40)	91-20-3	< 1%	10ppm	10ppm
Morpholine derivative	Trade secret	< 3%	N. A.	N. A.
Talc containing no asbestiform fibers	14807-96-6	< 3%	20mppcf	2mg/m3(R)
Barium Sulfate	7727-43-7	< 33%	dust 15mg/m3	10mg/m3
Dipropylene glycol monomethyl ether	34590-94-8	< 6%	100ppm	100ppm

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 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 inhaling 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 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	: *146°C (760mmHg)	COLOR	: Green
FLASH POINT	: 58.4°C (Seta C.C.)	FORM	: Liquid
VAPOR PRESSURE	: * 3.67mmHg(20°C)	VAPOR DENSITY	: * 6.12 (Air=1)
SOLUBILITY IN WATER	: * < 13.8wt%	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.

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 : NONE

CARCINOGENICITY

NTP IARC OSHA EU NOT LISTED

Naphthalene is reported to be possibly carcinogenic based on its IARC, NTP, and EU classification.

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.

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 : Flammable Liquid
IATA : Flammable Liquid
UN : 1139 (Coating Solution)
CLASS : 3
Packing Group : III
FLASH POINT : 58.4°C (Seta C. C.)

SECTION 15

REGULATORY INFORMATION

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.
S61 - Avoid release to the environment. Refer to special instructions/Safety data sheets.
S62 - If swallowed, do not induce vomiting : seek medical advice immediately and show this container or label.
S60 - This material and its container must be disposed of as hazardous waste.

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.

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.

CA-40 SP19A

Updated : October 25, 2010

MSDS No. : MS-00220601-01

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SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS No.	CONTENTS (%)	OSHA (PEL)	ACGIH (TLV)
Bisphenol A-(epichlorhydrin);Epoxy resin(MW \leq 700)	25068-38-6	< 12%	N. A.	N. A.
TGIC(Muta. cat. 2;R46)	2451-62-9	< 29%	N. A.	0.05mg/m ³
Dipropylene glycol monomethyl ether	34590-94-8	< 6%	100ppm	100ppm
Silica, amorphous	Trade secret	< 5%	N. A.	dustTLV10mg/m ³

SECTION 3 HAZARDS IDENTIFICATION

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

EYE CONTACT : Moderately irritation

SKIN CONTACT : Moderately 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
 FOR FIREFIGHTERS breathing apparatus.

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	: *146°C (760mmHg)	COLOR	: White
FLASH POINT	: 81.4°C (Seta C.C.)	FORM	: Paste
VAPOR PRESSURE	: * 3.67mmHg(20°C)	VAPOR DENSITY	: * 6.12 (Air=1)
SOLUBILITY IN WATER	: *< 5.8wt%	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.

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 : TGIC(Muta. cat. 2;R46)
Oral-rats LD50=715mg/kg

ACUTE SKIN IRRITATION : Slightly irritant

MUTAGENICITY : Bisphenol A-(epichlorhydrin);Epoxy resin(MW \leq 700)
is suspected to have a mutagenicity.
TGIC(Muta. cat. 2;R46)
is classified as a Mutagenic substance.

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 : Moderately irritation

SKIN : Moderately irritation

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 : 81.4°C (Seta C. C.)

SECTION 15

REGULATORY INFORMATION

EEC LABELING : T=Toxic
Xi=Irritant

RISK PHRASES : R23/25 - Toxic by inhalation and if swallowed.
R48/22-Harmful:danger of serious damage to health by prolonged exposure if swallowed.
R46-May cause heritable genetic damage.
R41-Risk of serious damage to eyes.
R36/38 - Irritating to eyes and skin.
R43 - May cause sensitization by skin contact.
R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SAFETY PHRASES : S53 - Avoid exposure - obtain special instructions before use.
S37/39 - Wear suitable gloves and eye/face protection.
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S28 - After contact with skin, wash immediately with plenty of water and soap.
S61 - Avoid release to the environment. Refer to special instructions/Safety data sheets.

TSCA : on TSCA on LVE NOT LISTED
EINECS : on EINECS on ELINCS NOT LISTED

SECTION 16

OTHER INFORMATION

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