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Updated : May 21, 2013

MSDS No. : MS-00254701-00

SECTION 1 IDENTIFICATION

MANUFACTURER TAIYO INK MFG. CO., LTD. TEL 81-493-62-7882
 388 Ohkura, Ranzan-machi, Hiki-gun FAX 81-493-62-7962
 Saitama, 355-0222 JAPAN

DISTRIBUTOR

EMERGENCY CONTACT TEL 81-493-62-7882 FAX 81-493-62-7962

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS No.	CONTENTS (%)	OSHA (PEL)	ACGIH (TLV)
Dipropylene glycol monomethyl ether	34590-94-8	< 14%	100ppm	100ppm
Silica, amorphous	Trade secret	< 3%	N. A.	dustTLV10mg/m3
Barium Sulfate	7727-43-7	< 8%	dust 15mg/m3	10mg/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 : 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 : Use full protective clothing and self-contained 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	: *190°C (760mmHg)	COLOR	: Black
FLASH POINT	: 89.0°C (Seta C.C.)	FORM	: Paste
VAPOR PRESSURE	: * 2.00mmHg(38°C)	VAPOR DENSITY	: * 6.12 (Air=1)
SOLUBILITY IN WATER	: *< 35.0wt%	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 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.

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 : 89.0°C (Seta C.C.)

SECTION 15 REGULATORY INFORMATION

EEC LABELING : Xn=Harmful
 The identification of the "Harmful" mark is not legally required, but we have indicated it voluntarily for your safety use.

RISK PHRASES : N. A
 SAFETY PHRASES : N. A
 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.

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Updated : December 17, 2012

MSDS No. : MS-00228111-00

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)
Barium Sulfate	7727-43-7	< 22%	dust 15mg/m ³	10mg/m ³
Epoxy resin(MW ≤ 700, Carc. cat. 3;R40, R43)	85954-11-6	< 26%	N. A.	N. A.
Dipropylene glycol monomethyl ether	34590-94-8	< 8%	100ppm	100ppm
Naphthalene(Carc. Cat. 3;R40)	91-20-3	< 1%	10ppm	10ppm

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 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 : Use full protective clothing and self-contained 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	: *190°C (760mmHg)	COLOR	: White
FLASH POINT	: 84.1°C (Seta C.C.)	FORM	: Paste
VAPOR PRESSURE	: * 2.00mmHg (38°C)	VAPOR DENSITY	: * 6.12 (Air=1)
SOLUBILITY IN WATER	: *< 8.9wt%	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 : Epoxy resin (MW ≤ 700, Carc. cat. 3; R40, R43) is suspected to have a mutagenicity.

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 : 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 : 84.1°C (Seta C. C.)

SECTION 15 REGULATORY INFORMATION

EEC LABELING : Xn=Harmful
 RISK PHRASES : R40 - Limited evidence of a carcinogenic effect.
 R43 - May cause sensitization by skin contact.
 SAFETY PHRASES : S36/37 - Wear suitable protective clothing and gloves.
 S22 - Do not breathe dust.
 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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