

P S R - 4 0 0 0 E G 2 3

Updated : December 9, 2013

MSDS No. : MS-00139201-09

## 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
Carbon black	1333-86-4	< 1%	3.5 mg/m <sup>3</sup>	3.5 mg/m <sup>3</sup>
Acetophenone derivative	Trade secret	< 6%	N. A.	N. A.
Talc containing no asbestiform fibers	14807-96-6	< 4%	20mppcf	2mg/m <sup>3</sup> (R)
Barium Sulfate	7727-43-7	< 31%	dust 15mg/m <sup>3</sup>	10mg/m <sup>3</sup>

## 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	: *191°C (760mmHg)	COLOR	: Black
FLASH POINT	: 73.5°C (Seta C. C.)	FORM	: Paste
VAPOR PRESSURE	: * 2.00mmHg( 38°C)	VAPOR DENSITY	: * 6.12 (Air=1)
SOLUBILITY IN WATER	: * < 11.3wt%	ODOR	: Mild odor
		SPECIFIC GRAVITY	: 1.3 - 1.5

\*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.

## Carbon black

mentioned at Section 2 is classified to a carcinogen, because of the specific state furnished in a powder form and which causes lung cancers, 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 Carbon black 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 : 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 : 73.5°C (Seta C.C.)

## SECTION 15

## REGULATORY INFORMATION

---

EEC LABELING : T=Toxic  
Xn=Harmful

RISK PHRASES : R60 - May impair fertility.  
R61 - May cause harm to the unborn child.  
R65 - Harmful:may cause lung damage if swallowed.  
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.  
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  
\* This product contains a substance listed on the TSCA inventory and in addition is subject to the Significant New Use Rule(SNUR) found in 40CFR721.9664

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.



## 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	: *191°C (760mmHg)	COLOR	: White
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	: * < 7.7wt%	ODOR	: Mild odor
		SPECIFIC GRAVITY	: 1.5 - 1.7

---

\*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-isomer (Muta.cat.2;R46)EU59653-74-6  
Oral-rats LD50=660mg/kg

ACUTE SKIN IRRITATION : Slightly irritant

MUTAGENICITY : TGIC-isomer (Muta.cat.2;R46)EU59653-74-6  
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 : Moderately 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 : 79.0°C (Seta C. C.)



## SECTION 15

## REGULATORY INFORMATION

---

EEC LABELING : T=Toxic

RISK PHRASES : 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.  
R20 - Harmful by inhalation.  
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.  
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
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 :  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.