

Material Safety Data Sheet

S-411 W

Identity (Trade Name As Used On Label)

SECTION 1 - IDENTIFICATION

TAIWAN TAIYO INK CO.,LTD

Manufacturer

No.7,Ta Tung 2nd Rd.,Kuan-Yin Industry

Address

Park Taoyuan,Taiwan,R.O.C.

886-3-483-3234

Phone Number (For Information)

886-3-483-3234

Emergency Phone Number

MSF-00025-04

MSDS Number*

CAS Number*

June. 1st, 2005

Date Prepared

Takehara Eiji

Prepared By*

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

SECTION 2 - MATERIAL IDENTIFICATION AND INFORMATION

COMPONENTS - Chemical Name & Common Names (Hazardous Components 1% or greater: Carcinogens 0.1% or greater)	%	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED
Heavy aromatic solvent naphtha (petroleum) CAS No. 64742-94-5	4	N.A.	N.A.	
Ethylene glycol monobuttl ether (BCS) CAS No.111-76-2	6	N.A.	N.A.	
Non-Hazardous Ingredients	> 90			
Total	100			

SECTION 3 - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	186~196	Specific Gravity (H ₂ O = 1)	1.3± 0.2
Vapor Pressure (mm Hg and Temperature)	N.E.	Melting Point	N.E.
Field Limit	1.2 ~ 7.5%	Solubility in Water	6 wt%
Appearance and Oder	White liquid with Mild Odor	Flash Point and Method Used	86 (Seta C.C.)

SECTION 4 - FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Carbon dioxide, Foam, Dry chemical
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 5 - HAZARD 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 6 - EXPOSURE CONTROLS AND 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

SECTION 7 - FIRST AID MEASURES

EMERGENCY FIRST AID PROCEDURES	Seek medical assistance for further treatment, observation and support if necessary.
Eye Contact	Rinse immediately with clean water for at least 15 minutes. If irritation persists, seek medical attention.
Skin Contact	Wash with plenty of running water using a mild soap. Do not use organic solvents.
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's not recommended that vomiting be induced except on medical advice.

SECTION 8 - 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 u organic solvents. Dispose in accordance with local regulations.

SECTION 9 - 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 25 °C. Avoid direct exposure to UV and sunlights.

SECTION 10 - STABILITY AND REACTIVITY

Stability	The product is stable (ambient temperatures).
Conditiones 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 - DISPOSAL CONSIDERATIONS

Incineration or landfill in accordance with local regulations.

SECTION 12 - 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 1 is given below.

HEATH HAZARDS

ACUTE INGESTION TOXICITY	N.E.
ACUTE SKIN IRRITATION	Slightly irrotant
MUTAGENICITY	NONE

CARCINOGENICITY

NTP IARC OSHA NOT LISTED

Silica crystalline (or carbon black) mentioned at Section 1 is classified to a carcinogen, because of the specific state furnished in a powder from 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 Silica crystalline (or 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.
EYE	Slight irritation
SKIN	Slight irritation
INGESTION	Expected to have a low order of toxicity.

SECTION 13 - ECOLOGICAL INFORMATION

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

SECTION 14 - TRANSPORT INFORMATION

ADR	Inflammable Liquid
IMDG-CODE	Level 6
IATA	Level 6
US DOT	Combustible Liquid
UN	2369
FLASH POINT	86 (Seta C.C.)

SECTION 15 - REGULATORY INFORMATION

APPLICATION of LAW	Occupational Health and Safety Law.
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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.

Optional U.K.= Un-Known N.E.= Not Established N.A.= Not Applicable