



MATERIAL SAFETY DATA SHEET

1 CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Trade Name INK TYPE UVN
MSDS Number 409
Supplier ITW TRANS TECH
475 N. GARY AVENUE
CAROL STREAM, IL 60188 USA

Telephone Numbers - 24 Hour Emergency Assistance
Emergency (352)323-3500

Telephone Numbers - General Assistance
Information (630)752-4000

2 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CAS Number	Concentration	Exposure Limits / Health Hazards
EPOXI- AND ACRYLOCRYLATES	Trade Secret	45 - 50 %	ND
N-BUTYL ACETATE	123-86-4	20 - 25 %	OSHA PELs: 950 mg/m ³ ACGIH TLV: n.av.
PHOTOMERCHEMICALS	Trade Secret	5 - 10 %	NA
HEXANDIOLDIOCRYLATE	13048-33-4	5 - 10 %	
TETRAETHYLEN GLYCOL DIACRYLATE	Trade Secret	1 - 5 %	NA

3 HAZARDS IDENTIFICATION

Signs & Symptoms of Short-Term (Acute) Exposure

Excessive vapor concentration in air, especially in confined spaces, may cause asphyxiation. Excessive inhalation of vapors can cause nasal, throat and respiratory irritation, dizziness, weakness, fatigue, nausea, headache and possible unconsciousness. Eye contact causes irritation, redness, tearing, blurred vision. Eye contact with liquid or vapor causes severe irritation, redness, tearing, blurred vision. Vapors may cause severe eye irritation, redness, tearing and blurred vision. Prolonged skin contact may lead to extraction of natural oils with resultant dry skin, cracking, irritation and dermatitis. Swallowing may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Notice: intentional misuse by deliberately concentrating and inhaling the contents maybe harmful or fatal. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

Effects of Long-Term (Chronic) Exposure

Health studies have shown that many solvents pose potential human health risks which may vary from person to person. As a precaution, exposure to liquids and vapors should be minimized. -Prolonged or continuous inhalation of vapors may result in delayed lung damage. Repeated or prolonged inhalation of vapor may cause liver and kidney damage. -Repeated inhalation of vapor in high concentration can change the blood picture.

4 FIRST AID MEASURES

Skin

Wash away with soap and water and rinse. Do not use solvents or thinners.

Eye

Remove contact lenses, keep eyelids open. Keep eyelids lifted. Flush with water for 15 minutes. Call a physician.

Inhalation

Take the casualty into the fresh air and keep warm. Irregular breathing/no breathing: artificial respiration. Call a physician.

Ingestion

Do not induce vomiting. Call a physician. Keep at rest.

Medical Conditions Aggravated by Exposure

This product is unlikely to harm health, given normal and proper handling and hygienic precautions. Prolonged inhalation of vapors in high concentrations may lead to headache, giddiness and nausea. In case of contact with the product danger of resorption through the skin, irritation of skin/mucous membranes.

5 FIRE FIGHTING MEASURES

Extinguishing Media

Alcohol resistant foam, co2, powders, water spray. Not to be used: waterjet.

Basic Fire Fighting Procedures

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

Unusual Fire & Explosion Hazards

Cool endangered containers with water in case of fire. Do not allow the quenching water into the sewage system. Do not allow the quenching water into the sewage system. Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Preparation may charge electrostatically. Always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used.

Flash Point 32 C

Flammability Limits in Air, Lower, % by Volume 0.8

6 ACCIDENTAL RELEASE MEASURES

Environmental Precautions

Do not empty into drains. If the product contaminates lakes, rivers or sewer systems, inform appropriate authorities in accordance with local regulations.

Spill or Leak Procedure

Remove all sources of ignition. Provide for good ventilation or respiratory. Contain and collect spillage with non-combustible absorbent materials, e.g., sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations. Clean preferably with a detergent; avoid use of solvents.

7 HANDLING & STORAGE

Handling

Prevent the creation of flammable or explosive concentration of vapor in air and avoid vapor concentration higher than the occupational exposure limits. Additionally, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Comply with the health and safety at work laws.

Storage

Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep container closed. Never use pressure to empty: container is not a pressure vessel. No smoking. Prevent unauthorized access.

Ventilation

Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particles and solvent vapor below the OEL, suitable respiratory protection must be worn.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection: Personal Protection Equipments (PPE)

Appropriate breathing apparatus may be required.

General

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. Unconsciousness: Lateral position - call a physician.

9 PHYSICAL & CHEMICAL PROPERTIES**Odor and Appearance**

Colored paste w/odor of organic solvents

Boiling Point	124 C
Specific Gravity	> 1
Vapor Pressure	13 (mm 11g) hPa
Vapor Density	> 1
Solubility In Water	Partially

10 STABILITY & REACTIVITY**Stability/Incompatibility**

Stable under recommended storage and handling conditions. Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Hazardous Reactions/Decomposition Products

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

11 TOXICOLOGICAL INFORMATION**Routes of Exposure**

Inhalation, ingestion, skin and eye contact.

12 ECOLOGICAL INFORMATION**13 DISPOSAL CONSIDERATIONS****Waste Disposal**

According to local, state and federal regulations (incineration).

14 TRANSPORT INFORMATION**Department of Transportation (DOT) Requirements:****General Transportation Information for Bulk Shipments**

Proper Shipping Name	Printing Ink	UN/NA Code	1210
Hazard Class	3		
Packaging Group	Class III		
Labels Required	Flammable Liquid		

15 REGULATORY INFORMATION**NFPA Ratings**

Health	Flammability	Reactivity	Special Hazards
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HMIS Ratings

Health 1	Flammability 3	Reactivity 1	Personal Prot. Equip. C
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16 OTHER INFORMATION

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Completed By