



MATERIAL SAFETY DATA SHEET

1 CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Trade Name INK TYPE B NT
MSDS Number 358
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
BUTYL GLYCOL ACETATE	112-07-2	15 - 20 %	N/A
2-METHOXY-1-METHYLETHYL ACETATE	108-65-6	10 - 15 %	NA
BISPENOL-A-EPICHLORHYDRIN	25068-38-6	5 - 10 %	NA
CYCLOHEXANONE	108-94-1	1 - 5 %	ACGIH TLV: 100 mg/m3
SOLVENT NAPHTHA, heavy aromat.	64742-94-5	1 - 5 %	n.av.
XYLENE	1330-20-7	1 - 5 %	ACGIH TLV: 435mg/m3

Composition Comments

Epoxiresin Reaction Product: Bisphenol-A-Epichlorhydrin

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. 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.

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 area thoroughly with soap and water and rinse.

Eye

Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing.

Ingestion

Do not induce vomiting.

Medical Conditions Aggravated by Exposure

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5 FIRE FIGHTING MEASURES

Extinguishing Media

Foam, carbon dioxide, dry chemical powder

Basic Fire Fighting Procedures

Water may be ineffective. Water should be used to cool containers exposed to fire. Fire fighting personnel should wear self-contained breathing apparatus.

Unusual Fire & Explosion Hazards

Keep container tightly closed, isolate from heat, sparks, electrical equipment and open flame. Closed containers may explode when exposed to extreme heat. During emergency conditions over exposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

Flash Point 38 °C

Flammability Limits in Air, Lower, % by Volume 6

Flammability Limits in Air, Upper, % by Volume 10

6 ACCIDENTAL RELEASE MEASURES

Spill or Leak Procedure

Remove all sources of ignition, avoid breathing vapors, ventilate area, remove with liquid binding material.

7 HANDLING & STORAGE

Handling

Keep product away from ignition sources, such as heat, sparks, pilot lights, static electricity, and open flames.

Storage

Store out of direct sunlight.

Ventilation

Adequate ventilation is required. Provide ventilation to keep vapor concentration below the given tlv.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Eye Protection: Personal Protection Equipments (PPE)

Use safety eyewear designed to protect against splash of liquids.

General

Eye bath and shower should be available. Chemical resistant boots, protective clothing appropriate for exposure risk.

9 PHYSICAL & CHEMICAL PROPERTIES

Odor and Appearance

Colored paste with odor of organic solvent

Boiling Point 137 - 195 °C

Specific Gravity	1 - 1.6 (H2O=1)
Melting Point	n.a.
Percent Volatile	29 - 50 %
Vapor Pressure	9 (mm Hg.) hPa
Evaporation Rate	n.a. (Butyl Acetate=1)
Vapor Density	> 1 (Air - 1)
Solubility In Water	no

10 STABILITY & REACTIVITY

Stability/Incompatibility

Stable under normal conditions of use.

Hazardous Reactions/Decomposition Products

Carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

Hazardous Polymerization

Will not occur.

11 TOXICOLOGICAL INFORMATION

Routes of Exposure

Inhalation, ingestion, skin and eye contact.

12 ECOLOGICAL INFORMATION

13 DISPOSAL CONSIDERATIONS

Waste Disposal

Incinerate in an approved facility, do not incinerate closed containers. Dispose of in accordance with federal, state, and local pollution control requirements.

14 TRANSPORT INFORMATION

Department of Transportation (DOT) Requirements:

General Transportation Information for Bulk Shipments

Proper Shipping Name	Printing Ink		
Hazard Class	3	UN/NA Code	1210
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 2	Flammability 2	Reactivity 1	Personal Prot. Equip. C
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Following ingredients of this product are listed in SARA313

SARA Listed Ingredient Name	CAS Number	Maximum %
XYLENES	1330-20-7	

Listed on the following Regulatory List(s)

SARA 313

16 OTHER INFORMATION

Disclaimer

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of ITW Trans Tech. The data on this sheet applies only to the specific material designated herein. ITW Trans Tech. assumes no legal responsibility for use of reliance upon this data.

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Completed By