



MATERIAL SAFETY DATA SHEET

1 CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Trade Name INK TYPE PM 1 RNT BLACK CUSTOM VER. 3
MSDS Number 463
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
SOLVENT NAPHTHA 100	64742-95-6	25 - 30 %	OSHA PEL: 100ppm ACGIH TLV: 125ppm
XYLENE	1330-20-7	5 - 10 %	OSHA TWA: 100ppm; OSHA STEL: 150ppm ACGIH TLV: TWA: 100 ppm STEL: 150 ppm NIOSH REL: (Xylene) 100 ppm CL 200 ppm/10M TWA:
2-METHOXY-1-METHYLETHYL ACETATE	108-65-6	5 - 10 %	NA
BUTYL GLYCOL ACETATE	112-07-2	5 - 10 %	N/A
1-METHOXY PROPANOL-2	107-98-2	1 - 5 %	ACGIH 100 ppm 369 mg/m ³ 8 HR. TWA = 1000 mg/m ³ ACGIH 150 ppm 553 mg/m ³ 15 MIN/STEL
CHLORINATED POLYOLEFINE	68609-36-9	< 6 %	N/A
CHLORINATED PARAFFIN (C14-C17)	85535-85-9	< 3 %	NA

3 HAZARDS IDENTIFICATION

Emergency Overview

Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

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.

Potential Health Effects, Skin

Prolonged skin contact may lead to extraction of natural oils, with resultant dry skin, cracking, irritation and dermatitis.

Potential Health Effects, Eye

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.

Potential Health Effects, Inhalation

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.

Potential Health Effects, Ingestion

Swallowing may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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 plenty of water (10-15 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. Never give anything by mouth to an unconscious person. In all cases of doubt, or when symptoms persist, seek medical attention.

Unconsciousness: lateral position - call a physician.

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.

Appropriate breathing apparatus may be required.

Unusual Fire & Explosion Hazards

Cool endangered containers with water in case of fire. 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 anti static footwear and clothing. No sparking tools should be used.

Flash Point 30 C

Flammability Limits in Air, Lower, % by Volume 0.6

Flammability Limits in Air, Upper, % by Volume 10

Vapor Density > 1 (air = 1)
Solubility In Water None
Volatile Organic 51.5 %

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, skin contact, eye contact, ingestion.

12 ECOLOGICAL INFORMATION

13 DISPOSAL CONSIDERATIONS

Waste Disposal

According to state and local regulations.

14 TRANSPORT INFORMATION

15 REGULATORY INFORMATION

NFPA Ratings

Health Flammability Reactivity Special Hazards

HMIS Ratings

Health 1 Flammability 3 Reactivity 1 Personal Prot. Equip. B

16 OTHER INFORMATION

Disclaimer

The details in this MSDS satisfy national legislation. We have no knowledge or control over the individual user's working conditions, however.

The product is not to be used for other purposes than those specified under section 1 without first obtaining written handling instruction. The user is responsible for the observance of all required statutory provisions.

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Completed On 6/23/2008 **Replaces Sheet Dated** 12/11/2006

Completed By