



MATERIAL SAFETY DATA SHEET

1 CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Trade Name INK TYPE HS
MSDS Number 217
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
N-BUTYL ACETATE	123-86-4	10 - 20 %	150 ppm OSHA, NIOSH, ACGIH TWA 200 ppm NIOSH, ACGIH STEL
CYCLOHEXANONE	108-94-1	5 - 10 %	OSHA TWA: 50ppm; ACGIH TWA: 25ppm 50ppm NIOSH, ACGIH STEL
XYLENES	1330-20-7	1 - 5 %	OSHA PEL: 100ppm ACGIH TLV: 100ppm

Composition Comments

All 3 components are listed under SARA Title III, Section 304, CERCLA Hazardous Chemicals. The product does not contain any ingredients being classified toxic according to EU regulations.

3 HAZARDS IDENTIFICATION

Emergency Overview

NI

Signs & Symptoms of Short-Term (Acute) Exposure

In case of overexposure: Dizzy feeling, headache, redding of the skin, irritation of the eyes.

Effects of Long-Term (Chronic) Exposure

Repeated skin contact may cause dermatitis. Excessive skin contact may cause dermatitis.

4 FIRST AID MEASURES

Skin

Wash immediately with soap and water.

Eye

Rinse immediately with plenty of water. See a physician for medical treatment.

Inhalation

Fresh air supply.

Ingestion

Call for medical assistance.

Medical Conditions Aggravated by Exposure

Skin allergies.

5 FIRE FIGHTING MEASURES

Extinguishing Media

Chemical powder, foam, carbon dioxide.

Basic Fire Fighting Procedures

Full protective equipment including self contained breathing apparatus should be used. Foam in large quantities. Cool endangered containers with water.

Unusual Fire & Explosion Hazards

Do not inhale fumes or decomposition products. Product generates combustible vapors at elevated temperatures. Toxic gases may be generated by burning and by thermal decomposition. Keep product away from sources of ignition.

Flash Point	25 °C (77°F)
Autolgnition Temperature	315 °C (599°F)
Flammability Limits in Air, Lower, % by Volume	1
Flammability Limits in Air, Upper, % by Volume	9.8

6 ACCIDENTAL RELEASE MEASURES

Spill or Leak Procedure

Remove sources of ignition and ventilate polluted area. Take up remnants with liquid-binding material like sand, kieseguhr, etc. All spills should be cleaned up immediately.

7 HANDLING & STORAGE

Handling

Use only with skin and eye protection. Keep away from all sources of ignition. Avoid contact with skin, eyes and mucous membranes. Do not eat, drink or smoke during handling. Do not empty into drains.

Storage

Use only with skin and eye-protection. Keep away from ignition sources. Avoid contact with skin, eyes and mucous membranes. Do not eat, drink or smoke during handling. Do not empty into drains.

Ventilation

Local exhaust: yes

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Eye Protection: Personal Protection Equipments (PPE)

Chemical resistant and splashproof safety goggles.

Skin Protection: Personal Protection Equipments (PPE)

Chemical resistant gloves (rubber).

Respiratory Protection: Personal Protection Equipments (PPE)

Use sufficient ventilation to keep vapor concentration below TLV-value.

General

Do not eat, drink or smoke during handling. Remove contaminated clothing.

9 PHYSICAL & CHEMICAL PROPERTIES

Odor and Appearance

Colored paste with odor of organic solvent

Boiling Point	126 °C (259°F)
Specific Gravity	1.1 - 1.6 (water-1)
Melting Point	NA
Percent Volatile	457 - 665 g/l depending on shade
Vapor Pressure	13 mbar
Vapor Density	Heavier than air (3-4)
Solubility In Water	Insoluble

10 STABILITY & REACTIVITY

Stability/Incompatibility

Stable.

Incompatible with: Strong oxidizers.

Hazardous Reactions/Decomposition Products

Excessive heat or fire may produce decomposition products containing carbon monoxide and dioxide as well as volatile organic compounds which may be irritating, toxic or flammable.

Hazardous Polymerization

Will not occur.

11 TOXICOLOGICAL INFORMATION

Routes of Exposure

Inhalation - fresh air supply.

Eyes - rinse immediately with plenty of water. See a physician for medical treatment.

Skin - wash immediately with soap and water.

Ingestion - call medical assistance.

Carcinogenicity

None of the components of this material are listed by NTP, IARC or OSHA as a carcinogen or potential carcinogen.

12 ECOLOGICAL INFORMATION

13 DISPOSAL CONSIDERATIONS

Waste Disposal

Follow federal, state and local regulations to dispose of or incinerate waste material.

14 TRANSPORT INFORMATION

Department of Transportation (DOT) Requirements:

General Transportation Information for Bulk Shipments

Proper Shipping Name Paint Related Material

UN/NA Code 1263

15 REGULATORY INFORMATION

NFPA Ratings

Health

Flammability

Reactivity

Special Hazards

HMIS Ratings

Health 1

Flammability 3

Reactivity 0

Personal Prot. Equip. D

16 OTHER INFORMATION

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Completed By