



MATERIAL SAFETY DATA SHEET

TEP-SW 010

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IMPORTANT: Read this MSDS before handling and disposing of this product and pass this information on to employees, customers and users of this product.

INFOTRAC 24 HOUR EMERGENCY RESPONSE NUMBER: 1-800-535-5053

SECTION 1. GENERAL INFORMATION

TRADE NAME: TEP-SW 010
GENERIC NAME: Jet Black Ink

CHEMICAL CHARACTERIZATION: Mixture of polar organic solvents, dye, binding agents and auxiliaries.

SECTION 2. INGREDIENTS

COMPONENTS	CAS Number	Content %
Ethanol	64-17-5	<75
1-Methoxy-2-Propyl Alcohol	107-98-2	<20
N-Propanol	71-23-8	<5

SECTION 3. HAZARDOUS IDENTIFICATION

Special hazard information with regard to health and environment:

Highly flammable liquid.

Possible noticeable symptoms on humans:

Ethanol:

Can cause dizziness, headache, nausea, irritation of the throat and perceptive trouble.
Has a druglike effect.

1-Methoxy-Propanol-2:

Irritating to eyes, skin, and respiratory system. Risk of absorption through the skin.
Swallowing can cause stomach trouble, indisposition, diarrhea, and vomiting.
Can cause dizziness, headache, and perceptive trouble.
Can cause depression of the central nervous system.

N-Propanol:

Risk of severe eye damages. Skin defatting to a great extent.
May cause dizziness, headache, perceptive trouble.
Can cause depression of the central nervous system.

SECTION 4. PHYSICAL AND CHEMICAL PROPERTIES

Form: liquid
Color: colorless
Odor: characteristic
Boiling point: 70°C - 90°C
Melting point: n.a.
Flash point: <20°C
Autoignition point: 425°C
Explosive limits: lower: 3.5% upper: 15% Literature value for Ethanol
Vapor pressure: 59 mbar / 20°C Literature value for Ethanol
Vapor density: > 1 (air=1) Literature value for Ethanol
pH value: 5-7
Density: ~0.8231 g/ml
Bulk density: not applicable due to physical condition
Viscosity: 1.8-2.2 mm²/s

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Solubility in water: miscible
Miscible in: Miscible with most organic solvents
Solvent content: >95%

SECTION 5. FIRST AID MEASURES

General advice:

Take off immediately all contaminated clothing. If there is a risk that person is losing consciousness, lay person down and move person safely on their side.

Inhalation:

Move person to fresh air. If there is respiratory distress, give artificial respiration and seek medical attention.

Skin contact:

Wash affected area with soap and copious amounts of water

Eye contact:

Remove contact lenses if applicable. Rinse immediately with copious amounts of water (at least 15 minutes long), holding eyelids apart.

Seek medical attention.

Ingestion:

Have the person rest. Seek immediately medical attention. Have the person drink water (200 ml). DO NOT INDUCE VOMITING. NO MILK. NO CASTOR OIL.

SECTION 6. FIRE FIGHTING MEASURES

The vapors of the solvents are heavier than air and collect on the ground. The product is flammable. Contact with air may lead to explosive mixtures. The product is by part miscible in water.

Extinguishing media:

To be used: Alcohol resistant foam, carbon dioxide, dry powder, water fog and water spray

Do not use: Water jet

Hazards due to gas formation and/or decomposition products:

A fire can generate the following gases: Carbon oxide, nitrogen oxide and other by part irritating combustion vapors.

Special protective equipment during fire fighting:

Wear self-contained breathing apparatus with pressure equipment as well as complete protective clothing. Prevent water used for fire fighting from entering sewers or ground water.

SECTION 7. ACCIDENTAL RELEASE MEASURES

Personal Protection:

Avoid sources of ignition. Do not smoke. Do not breath in vapors/aerosol. Avoid contact with eyes and skin. Wear appropriate protective gloves (latex, vinyl, nitril are only resistant to a limited extent. Butyl rubber is resistant.) Wear safety glasses/goggles. In no exhauster available, wear breathing filter (Class A brown).

Environmental protection:

Prevent vapors from developing by covering with damp cloth. Do not allow to enter sewers, basement or ground water. In case of emergency, stem by using appropriate measures. Keep away from sources of ignition. Do not smoke.

After spillage/leakage:

Absorb spills with non-combustible, liquid-binding material (such as sand, silica gel, multi-purpose binding agent, Oil-Dry®). Clean with water. Dispose of product and of all cloth and cleaning agents contaminated by the product in accordance with applicable regulations.

Further information:

Product is highly flammable and miscible with water.

SECTION 8. HANDLING AND STORAGE

Handling:

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Take usual precautionary measures when handling chemicals. Wear appropriate gloves and eye protection. Open and handle container with care. Air thoroughly and if necessary care for exhauster or breathing filter. Do not smoke, eat or drink. Take measures against static discharges. Preventive skin protection is recommended. Wash hands with copious amounts of water at end of work.

Storage:

Store product in a cool, approved area and keep it in its original container, tightly closed. Air thoroughly. Keep away from sources of ignition and from fire-activating materials. Protect against strong heating and sunshine. Recommended storage temperature: +15°C - 25°C

SECTION 9. PERSONAL PROTECTION

Exposure limits:

Chemical Name	ACGIH	NIOSH	OSHA - PEL
Ethanol	1000 ppm	1000 ppm	1000 ppm
1-Methoxy-2-Propyl Alcohol	100 ppm	100 ppm	none
N-Propanol	200 ppm	200 ppm	200 ppm

Protective means must be selected according to work-specific conditions and to the concentration of hazardous ingredients. The resistance of the protective means to chemicals should be evaluated with the respective supplier.

Respiratory protection:

If no exhauster available, wear breathing filter Class A (brown) organic vapors.

Protective gloves:

Wear impermeable protective gloves (Butyl rubber). Latex gloves are only resistant to a limited extent.

Eye protection:

Wear safety glasses/goggles with lateral protection.

Protective clothing:

Wear long-sleeved, antistatic, hardly inflammable working clothes.

Hygiene measures:

Keep away from food, drink and animal feed. Wash hands at breaks and end of day. Do not eat, drink or smoke around product.

DO NOT USE THIS PRODUCT FOR CLEANING SKIN OR CLOTHES.

SECTION 10. STABILITY AND REACTIVITY

Stability: Product is stable.

Conditions to avoid: Strong heat (>45°C) and/or sunshine

Substances to avoid: Strong acids and bases, oxidizing and reducing substances

Hazardous reactions: With acids, alkaline solutions, oxidizing and reducing substances

Hazardous decomposition: Carbon oxide, nitrogen oxide

SECTION 11. DISPOSAL INFORMATION

In compliance with local, state and federal regulations. The product should not be allowed to enter sewers or water streams.

SECTION 12. TOXICOLOGICAL INFORMATION

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	Ethanol	1-Methoxy-Propanol-2	N-Propanol	Unit
Acute toxicity:				
LD50 : Acute/oral/rat:	6,200	3,700-6,600	1,870	mg/kg
LD50 : Acute/dermal/rabbit:	20,000	13,000	4,000	mg/kg
LD50 : Inhalation/rat:	8,000	37,500	5,700	mg/Litre/4h

Related or prolonged contact with the skin may cause skin eruptions and dermatitis. Degreasing effect.
Critical amounts can be taken up due to absorption through the skin.
Inhalation causes headache, daze, drowsiness and perceptive trouble.
Eye contact can cause strong irritation and edema of the cornea.
Can cause liver, kidney and central nervous system injuries.
If breached in when swallowed or vomited out, may cause sever lung damage.

SECTION 13. TRANSPORT INFORMATION

Transport in accordance with ADR for road, RID for rail, IMDG for sea, ICAO/IATA for air.

ROAD TRANSPORT ADR/RID	
ADR/RID class:	3
Warning label:	3
Warning no.:	33
Packing group:	II
UN Number:	1263
Classification code:	F 1
Proper shipping name:	Paint UN 1263, dye accesories
Maximum weight:	333 liters
SEA TRANSPORT IMDG	
IMDG	3.2
UN Number:	1263
MFAG:	310/313
Label:	3
Packing group:	II
EmS No.:	F-E, <u>S-E</u>
Marine pollutant:	No
Proper shipping name	Paint UN 1263, dye accesories
AIR TRANSPORT ICAO/IATA	
ICAO/IATA class:	3
UN/ID Number:	1263
Label:	3
Packing group:	II
Proper shipping name	Paint UN 1263, dye accesories
Packing regulations air liner:	305/ Y 305
Max. net/box:	305/ 5 liters Y305/1 liter
Packing regulations freight plane:	307
Max. net/box:	60 liters

SECTION 14. REGULATORY INFORMATION

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) TITLE III TOXIC CHEMICAL(S) SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III AND/OR OF 40 CFR 372.

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