



# MATERIAL SAFETY DATA SHEET

## 1 CHEMICAL PRODUCT & COMPANY IDENTIFICATION

**Trade Name** RETARDER TPD  
**MSDS Number** 218  
**CAS Number** --0  
**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
ETHYLDIGLYCOLACETATE	112-15-2	50 - 75 %	n.av.
SOLVENT NAPHTHA, heavy aromat.	64742-94-5	10 - 25 %	n.av.
SOLVENT NAPHTHA(Petroleum) light aroma	64742-95-6	2.5 - 10 %	n.av.
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT	64742-47-8	2.5 - 10 %	n.av.
*1,2,4-TRIMETHYLBENZENE	95-63-6	1 - 2.5 %	ACGIH TLV: 123 mg/m3
MESITYLENE	108-67-8	< 1 %	ACGIH TLV: 123 mg/m3
NAPHTHALENE	91-20-3	< 0.25 %	ACGIH TLVs: 52 mg/m3

## 3 HAZARDS IDENTIFICATION

### Potential Health Effects, Skin

Skin contact may lead to degreasing with resultant dry skin, cracking, irritation and dermatitis.

### Potential Health Effects, Eye

Eye contact with liquid or vapor causes severe irritation, redness, tearing, blurred vision.

### Potential Health Effects, Inhalation

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.

### 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. 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.

### 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 in soap and water, and rinse with water. Do not use solvents or thinners.

### Eye

Remove contact lenses, keep eyelids open. Flush with plenty of water (10-15 minutes). Call a physician.

### Inhalation

Remove to fresh air and keep warm. Give artificial respiration if necessary. 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 suitable: water jet

### 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.

**Flash Point** > 40 °C

**Flammability Limits in Air, Lower, % by Volume** 0.6

**Flammability Limits in Air, Upper, % by Volume** 10

## 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. Do not breathe vapors. 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 concentrations 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. Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Preparation may change 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.

### Storage

Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep container tightly closed. Never use pressure to empty: container is not a pressure vessel. No smoking. Prevent unauthorized access. Keep away from oxidizing agents, from strongly alkaline and strongly acid materials. Always keep in containers of same material as the original one. Avoid heating and direct sunlight.

### 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 in maintaining concentrations of particles and solvent vapor below the OEL, suitable respiratory protection must be worn.

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### Eye Protection: Personal Protection Equipments (PPE)

Use safety glasses designed to protect against splash of liquids.

### Skin Protection: Personal Protection Equipments (PPE)

Protective gloves. After washing hands, replace lost skin fat by fat containing skin creams. Personal should wear anti static clothings made of natural fiber or of high temperature resistant synthetic fiber. All parts of the body should be washed after contact.

### Respiratory Protection: Personal Protection Equipments (PPE)

If work place limits are exceeded, a gas mask approved for this particular job must be worn.

### 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

Clear liquid with odor of organic solvents

<b>Boiling Point</b>	160 - 215 °C
<b>Specific Gravity</b>	0.96 approx.
<b>Melting Point</b>	n.a.
<b>Percent Volatile</b>	100
<b>Vapor Pressure</b>	5 approx.
<b>Evaporation Rate</b>	n.a.
<b>Vapor Density</b>	> 1 (air=1)
<b>Solubility In Water</b>	no

## 10 STABILITY & REACTIVITY

### Stability/Incompatibility

Stable under recommended storage and handling conditions. (see section 7)

Materials to Avoid: 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, dangerous decomposition products such as carbon dioxide, carbon monoxide, soot and nitrogen oxides can be produced.

**Hazardous Polymerization**

none.

**11 TOXICOLOGICAL INFORMATION****Routes of Exposure**

Inhalation, skin, eyes and ingestion.

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

Dispose of in accordance with federal, state, and local pollution control requirements.

**14 TRANSPORT INFORMATION**

Hazard Class	Combustible liquid - Class II	UN/NA Code	1263
Labels Required	Combustible 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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**16 OTHER INFORMATION****Disclaimer**

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