

Issue Date: 13-Nov-2014

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Version 2

Safety Data Sheet

### **1. IDENTIFICATION** Product Identifier **Product Name** Thermaflo® J Other means of identification SDS # CG-011 **Synonyms UN/ID No** UN2049 Recommended use of the chemical and restrictions on use **Recommended Use** Heat transfer fluid. Details of the supplier of the safety data sheet Supplier Address ORG Chem Group, LLC 2406 Lynch Road Evansville, IN 47711 www.chem-group.com Emergency Telephone Number **Company Phone Number** Non ER questions 800-489-2306 / 812-464-4446 **Emergency Telephone (24 hr)** Chemtrec 1-800-424-9300 (North America) 1-703-527-3887 (International)

# 2. HAZARDS IDENTIFICATION

Appearance Colorless to light yellow

Physical State Liquid

Odor Aromatic liquid

### **Classification**

Skin corrosion/irritation	Category 2
Aspiration toxicity	Category 1
Flammable Liquids	Category 3

Hazards Not Otherwise Classified (HNOC)

May be harmful if swallowed

<u>Signal Word</u> Danger

## Hazard Statements

Causes skin irritation May be fatal if swallowed and enters airways Flammable liquid and vapor



#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Keep away from heat/sparks/open flames/hot surfaces. — No smoking Keep container tightly closed Ground/bond container and receiving equipment Use explosion-proof equipment Use only non-sparking tools Take precautionary measures against static discharge

An improperly designed or maintained heat transfer system may permit the release of fluid, or air/moisture leakage into the system. This leakage could lower the fluid's flashpoint and/or produce light ends.

System leaks that result in saturated insulation may, when heated over time, create a combustible mixture when suddenly exposed to air. Leakage of fluid from the system at operating temperature and pressure may cause fluid to disperse as an aerosol, which may result in flammable concentrations of vapor in the air.

Thermal degradation or other decomposition of the fluid can occur in an improperly maintained heat transfer system, and also for other reasons, including operating the system above the fluid's recommended operating temperature and failure to maintain proper fluid velocity. Degradation or decomposition of the fluid may also create "low boiler" hydrocarbon compounds or light ends. The occurrence of any of the foregoing conditions may lead to an increased risk of explosion and/or fire.

#### **Precautionary Statements - Response**

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse If skin irritation occurs: Get medical advice/attention IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Do not induce vomiting IN CASE OF FIRE: Use CO2, dry chemical, or foam for extinction

#### Precautionary Statements - Storage

Store locked up Store in a well-ventilated place. Keep cool

#### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

#### **Unknown Acute Toxicity**

100% of the mixture consists of ingredient(s) of unknown toxicity

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Synonyms

Reclaimed DT-J.

Chemical Name	CAS No	Weight-%
Diethylebenzene	25340-17-4	>97

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

4. FIRST-AID MEASURES		
First Aid Measures		
General Advice	Provide this SDS to medical personnel for treatment.	
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.	
Skin Contact	IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/ attention.	
Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.	
Ingestion	Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Call a physician immediately.	
Most important symptoms and effects		
Symptoms	May cause eye, skin and respiratory tract irritation. Aspiration may occur during swallowing or vomiting and cause lung damage.	
Indication of any immediate medical attention and special treatment needed		
Notes to Physician	Treat symptomatically.	
5. FIRE-FIGHTING MEASURES		

#### Suitable Extinguishing Media

Water spray, dry powder, foam, or carbon dioxide (CO2).

Unsuitable Extinguishing Media Do not scatter spilled material with high pressure water streams.

### Specific Hazards Arising from the Chemical

Flammable liquid and vapor. Vapors may travel to source of ignition and flash back.

#### Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge Take precautionary measures against static discharge.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Personal Precautions	Ensure adequate ventilation, especially in confined areas. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).	
Environmental Precautions	Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. Collect spillage.	
Methods and material for containment and cleaning up		
Methods for Containment	Prevent further leakage or spillage if safe to do so. Soak up and contain spill with an inert (i.e. vermiculite, dry sand or earth) absorbent material.	
Methods for Clean-Up	Use clean non-sparking tools to collect absorbed material. Sweep up absorbed material and shovel into suitable containers for disposal. Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations. For waste disposal, see section 13 of the SDS.	

#### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on Safe HandlingWash face, hands, and any exposed skin thoroughly after handling. Use personal<br/>protection recommended in Section 8. Avoid breathing dust/fume/gas/mist/vapors/spray.<br/>Use only outdoors or in a well-ventilated area. Avoid contact with skin, eyes or clothing.<br/>Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Keep containers<br/>closed when not in use. Take precautionary measures against static discharges.<br/>Ground/bond container and receiving equipment. Use spark-proof tools and explosion-proof<br/>equipment.

During use at elevated temperatures thermal decomposition leads to the formation of low-boiling and high-boiling secondary products with potentially flammable properties. When flammable liquids are concentrated and collected appropriate risk management measures must be applied.

#### Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep container tightly closed and store in a cool, dry and well-ventilated place. Store locked up.

Incompatible Materials Strong oxidizing agents.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

 Exposure Guidelines
 No exposure limits noted for ingredient(s) The following information is given as general guidance

#### Appropriate engineering controls

**Engineering Controls** Apply technical measures to comply with the occupational exposure limits. Maintain eye wash fountain and quick-drench facilities in work area.

#### Individual protection measures, such as personal protective equipment

Eye/Face Protection	Safety goggles.
Skin and Body Protection	Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.
Respiratory Protection	Respiratory protection is not required except in emergencies or when conditions cause excessive airborne levels, mist, or vapors. Select the appropriate approved organic vapor air-purifying respirator, self-contained breathing apparatus, or air supplied respirators in situations where there may be potential for overexposure.
General Hygiene Considerations Avoid contact with skin, eyes and clothing. After handling this product, wash hands before eating, drinking, or smoking. If contact occurs, remove contaminated clothing. If needed, take first aid action shown on section 4 of this SDS. Launder contaminated clothing before reuse.	

# 9. PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

Physical State Appearance Color	Liquid Colorless to light yellow liquid Colorless to light yellow	Odor Odor Threshold	Aromatic Not determined
Property pH Melting Point/Freezing Point Boiling Point/Boiling Range Flash Point Evaporation Rate Flammability (Solid, Gas) Upper Flammability Limits	Values Not determined -81 deg C (-114 deg F 181 °C / 358 °F 59 °C / 138.2 °F Not determined Liquid-not applicable 6.03% (V)	Remarks • Method Literature COC	
Lower Flammability Limit Vapor Pressure Vapor Density (air=1) Specific Gravity (H2O=1) Water Solubility Solubility in other solvents Partition Coefficient Auto-ignition Temperature Decomposition Temperature Kinematic Viscosity	Not determined 0.67% (V) Not determined 1mm HG Not determined 4.5 Not determined 0.865 Not determined Not determined 410 °C / 770 °F Not determined 0.8	Literature Literature Literature @ 40°C (104°F)	
Dynamic Viscosity Explosive Properties Oxidizing Properties	0.98 cSt Not determined Not determined	@ 40°C (104°F)	

# **10. STABILITY AND REACTIVITY**

# Reactivity

Not reactive under normal conditions.

### Chemical Stability

Stable under recommended storage conditions.

#### Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

#### **Conditions to Avoid**

Keep away from heat, sparks and open flame.

#### **Incompatible Materials**

Strong oxidizing agents.

#### **Hazardous Decomposition Products**

Carbon oxides.

## **11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

	Product Information		
	Eye Contact	May cause moderate eye irritation.	
	Skin Contact	Causes skin irritation. Prolonged contact may cause redness and irritation.	
	Inhalation	Avoid breathing vapors or mists.	
	Ingestion	May be harmful if swallowed. May be fatal if swallowed and enters airways.	
Co	mponent Information		
Infe	Information on physical, chemical and toxicological effects		
	Symptoms	Please see section 4 of this SDS for symptoms.	
De	Delayed and immediate effects as well as chronic effects from short and long-term exposure		
	Carcinogenicity	Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.	
	Aspiration hazard	May be fatal if swallowed and enters airways.	
-	merical measures of toxicity determined		
Un	known Acute Toxicity Oral LD50	100% of the mixture consists of ingredient(s) of unknown toxicity. 2520-5000 mg/kg (rat)	

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

#### Persistence/Degradability

Not readily biodegradable.

# Bioaccumulation

Not determined.

#### Mobility Not determined

Other Adverse Effects

Not determined

## **13. DISPOSAL CONSIDERATIONS**

#### Waste Treatment Methods

Disposal of Wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated Packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations.

## **14. TRANSPORT INFORMATION**

exemptions and special circumstances.

Please see current shipping paper for most up to date shipping information, including

Note

DOT	
UN/ID No	UN2049
Proper Shipping Name	Diethylbenzene
Hazard Class	3
Subsidiary Hazard Class	III
IATA_	
UN/ID No	UN2049
Proper Shipping Name	Diethylbenzene
Hazard Class	3
Packing Group	III
IMDG	
UN/ID No	UN2049

0112049
Diethylbenzene
3
III

# **15. REGULATORY INFORMATION**

#### International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Diethylebenzene	Present	Х		Present		Present	Х	Present	Х	Х

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

#### US Federal Regulations

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### US State Regulations

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

#### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Diethylebenzene	Х		
25340-17-4			

## **16. OTHER INFORMATION**

	Health Hazards 1 Health Hazards	Flammability 2 Flammability	Instability 0 Bhysical Hazarda	Special Hazards Not determined Personal Protection
<u>HMIS</u>	Not determined	Flammability Not determined	Physical Hazards Not determined	Not determined
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Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

#### End of Safety Data Sheet