

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 01/01/2023

<b>SECTION 1: Identification</b>	of the substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
Product name	: Thermal Charge EGSE 50/50 Prediluted Heat Transfer Fluid
SDS ID	: 200058
1.2. Relevant identified use	es of the substance or mixture and uses advised against
Use of the substance/mixture	: Heat transfer fluid
Recommended use	: Contact supplier for more information on uses.
1.3. Details of the supplier	of the safety data sheet
Old World Industries, LLC 3100 Sanders Road Northbrook, IL 60062 - USA T (847) 559-2000 www.oldworldind.com	
1.4. Emergency telephone	number
Emergency number	: 800 424 9300 (United States); 00 1 703 527 3887 (International) Chemtrec
<b>SECTION 2: Hazards iden</b>	tification
2.1. Classification of the su	ubstance or mixture
GHS-US classification	
Acute toxicity (oral), H3	02 Harmful if swallowed.
Category 4 Specific target organ H3	73 May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).
toxicity — Repeated exposure, Category 2 Full text of H statements : see sec	tion 16
2.2. Label elements	
GHS-US labelling	
Hazard pictograms (GHS-US)	: GHS07 GHS08
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	: Harmful if swallowed. May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).
Precautionary statements (GHS-U	<ul> <li>JS) : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist, spray, vapors</li> <li>Wash affected areas thoroughly after handling. Do not eat, drink or smoke when using this product.</li> <li>Wear personal protective equipment as required. If swallowed: Immediately call doctor/physician or poison center</li> <li>If swallowed: rinse mouth. Do NOT induce vomiting</li> <li>If inhaled: Remove person to fresh air and keep comfortable for breathing</li> <li>If exposed or concerned: Get medical advice/attention.</li> </ul>
	Store locked up. Dispose of contents/container to appropriate waste disposal facility, in accordance with local/regional/national/international regulations

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#### 2.3. **Other hazards**

### No additional information available

#### Unknown acute toxicity (GHS US) 2.4.

### No data available

### **SECTION 3: Composition/information on ingredients**

#### 3.1. **Substances**

### Not applicable

**Mixtures** 3.2.

Name	Product identifier	% by wt	GHS-US classification
ethylene glycol	(CAS-No.) 107-21-1	<= 50	Acute Tox. 4 (Oral), H302
water	(CAS-No.) 7732-18-5	< 50	Not classified
diethylene glycol	(CAS-No.) 111-46-6	< 3	Acute Tox. 4 (Oral), H302 STOT RE 2, H373

Full text of hazard classes and H-statements : see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: Wash skin with plenty of water. Remove contaminated clothing. Wash contaminated clothing before reuse. If skin irritation occurs: Rinse immediately with plenty of water (for at least 15 minutes), Get medical advice/attention.
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse immediately with plenty of water for 15 minutes, lifting lower and upper lids. If eye irritation persists: Get medical advice and attention.
First-aid measures after ingestion	: Obtain emergency medical attention. Rinse mouth. If the person is fully conscious, make him/her drink two glasses of water. Never give an unconscious person anything to drink. Do NOT induce vomiting. Call a POISON CENTER/doctor/physician if you feel unwell. If medical advice is delayed, and if the person has swallowed a moderate volume of material (a few ounces), then give three to four ounces of hard liquor, such as whiskey. For children, give proportionally less liquor, according to weight.
4.2. Most important symptoms and effect	ts, both acute and delayed
Symptoms/effects	: Causes damage to organs (kidneys) Oral.
Symptoms/effects after skin contact	: May cause moderate irritation.
Symptoms/effects after eye contact	: Direct contact with the eyes is likely to be irritating.
Symptoms/effects after ingestion	: Swallowing a small quantity of this material will result in serious health hazard. The lethal dose in humans is estimated to be 100 mL (3 oz).

#### Indication of any immediate medical attention and special treatment needed 4.3.

A more effective intravenous antidote for physician uses is 4-methylpyrazaole, a potent inhibitor of alcohol dehydrogenases, which effectively blocks the formation of toxic metabolites of ethylene glycol. It has been used to decrease the metabolic consequences of ethylene glycol poisoning before metabolic acidosis coma, seizures, and renal failure have occured.

SECTION 5: Firefighting measur	es
5.1. Extinguishing media	
Suitable extinguishing media	: Carbon dioxide. Dry chemical. Foam. Sand. Water fog.
Unsuitable extinguishing media	: Do not use a heavy water stream. May spread fire.
5.2. Special hazards arising from the	e substance or mixture
Fire hazard	During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide. Product is not flammable or combustible but may burn under fire conditions.
Reactivity	: No dangerous reactions known under normal conditions of use.
5.3. Special protective equipment a	nd precautions for fire-fighters
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
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Protection during firefighting

: Do not enter fire area without proper protective equipment, including respiratory protection.

SECT	SECTION 6: Accidental release measures		
6.1.	Personal precautions, protective equipment and emergency procedures		
<mark>6.1.1.</mark> Emerge	For non-emergency personnel ency procedures	: Evacuate unnecessary personnel.	
	For emergency responders ve equipment ency procedures	<ul><li>Equip cleanup crew with proper protection. Refer to section 8.2.</li><li>Ventilate area.</li></ul>	
6.2.	Environmental precautions		
Prevent	Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.		
6.3.	Methods and material for containm	ent and cleaning up	
Method	s for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Store away from other materials.	

6.4. Reference to other sections

For further information refer to section 13. For further information refer to section 8: "Exposure controls/personal protection".

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling.
7.2. Conditions for safe storage, includin	g any incompatibilities
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Heat sources. Keep container closed when not in use. Product may become solid at temperatures below -37 °C (-34 °F). Do not store near food, foodstuffs, drugs or potable water supplies. Do not cut, drill, weld, use a blowtorch on, etc. containers even when empty.
Incompatible products	: Keep away from strong acids, strong bases and oxidizing agents.
Incompatible materials	: Sources of ignition.
7.3. Specific end use(s)	

### No additional information available

### SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

diethylene glycol (111-46-6)		
Not applicable		
ethylene glycol (107-21-1)		
ACGIH	Local name	Ethylene glycol
ACGIH	ACGIH TWA (mg/m³)	10 mg/m <sup>3</sup>
ACGIH	ACGIH TWA (ppm)	25 ppm (Vapor fraction)
ACGIH	ACGIH STEL (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (Inhalable fraction, Aerosol only)
ACGIH	ACGIH STEL (ppm)	50 ppm (Vapor fraction)
ACGIH	Remark (ACGIH)	Upper respiratory tract & eye irritant
ACGIH	Regulatory reference	ACGIH 2018
water (7732-18-5)		
Not applicable		

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8.3. Individual protection measures/Personal protective equipment

### Personal protective equipment:

Avoid all unnecessary exposure. Gloves. Safety glasses.

#### Hand protection:

Wear protective gloves.

### Eye protection:

Chemical goggles or safety glasses

### **Respiratory protection:**

Respiratory protection not required in normal conditions. If exposed to levels above exposure limits wear appropriate respiratory protection.



### Other information:

Do not eat, drink or smoke during use.

D.1.       Information on basic physical and chemical properties         Physical state       :       Liquid         Molecular mass       :       62.07 g/mol Ethylene Glycol         Color       :       Fuschia         Ddor       :       Fuschia         Odor       :       Mild         Ddor threshold       :       No data available         0H       :       10 - 11         Reserve Alkalinity       :       3 - 3.8 ml         Relative evaporation rate (butylacetate=1)       :       Nii         Freezing point       :       -37 °C (-34 °F)         Boiling point       :       107 °C (224 °F)         Flash point       :       No e. Percentage of water above 20%         Auto-ignition temperature       :       No data available         Decomposition temperature       :       No data available         Calecomposition temperature       :       No data available         Vapor pressure       :       <0.1 mm Hg @ 20 °C         Relative vapor density at 20 °C       :       No data available         Specific Gravity       :       1.06
Wolecular mass:::Color:FuschiaOdor:MildOdor threshold:No data availableOd:10 - 11Reserve Alkalinity::Relative evaporation rate (butylacetate=1):NilFreezing point::Solling point::Solling point::Auto-ignition temperature:No data availableDecomposition temperature:No data availableComposition temperature:No data availableCate available:No data availableCate available: <td< th=""></td<>
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bH: 10 - 11Reserve Alkalinity: 3 - 3.8 mlRelative evaporation rate (butylacetate=1): NilFreezing point: -37 °C (-34 °F)Boiling point: 107 °C (224 °F)Boiling point: None. Percentage of water above 20%Auto-ignition temperature: No data availableDecomposition temperature: No data availableFlammability (solid, gas): No data availableRelative vapor density at 20 °C: No data availableRelative vapor density at 20 °C: No data available
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Boiling point: 107 °C (224 °F)Flash point: None. Percentage of water above 20%Auto-ignition temperature: No data availableDecomposition temperature: No data availableFlammability (solid, gas): No data availableVapor pressure: < 0.1 mm Hg @ 20 °C
Flash point: None. Percentage of water above 20%Auto-ignition temperature: No data availableDecomposition temperature: No data availableFlammability (solid, gas): No data availableJapor pressure: < 0.1 mm Hg @ 20 °C
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Decomposition temperature       : No data available         Flammability (solid, gas)       : No data available         /apor pressure       : < 0.1 mm Hg @ 20 °C
Flammability (solid, gas): No data available/apor pressure: < 0.1 mm Hg @ 20 °C
/apor pressure: < 0.1 mm Hg @ 20 °C
Relative vapor density at 20 °C : No data available
Specific Gravity : 1.06
Density : 1.06 kg/l (8.84 lbs/gal)
Solubility : Water: Complete
Log Pow : No data available
Log Kow : No data available
/iscosity, kinematic : No data available
/iscosity, dynamic : No data available
Explosive limits : Not applicable
Explosive properties : Not applicable.
Dxidizing properties       : Not applicable.
9.2. Other information
VOC content : 0 %

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<b>SECTION 10: Stability and reactivity</b>		
10.1. Reactivity		
No dangerous reactions known under normal co	nditions of use.	
0.2. Chemical stability		
Stable.		
10.3. Possibility of hazardous reactions		
No dangerous reactions known under normal co	nditions of use.	
10.4. Conditions to avoid		
Extremely high or low temperatures. Keep away	from any flames or sparking source.	
10.5. Incompatible materials		
Keep away from strong acids, strong bases and	oxidizing agents.	
10.6. Hazardous decomposition products		
Alcohols. Aldehydes. Carbon dioxide. Carbon me	onoxide. Ethers. Fume.	
<b>SECTION 11: Toxicological informat</b>	ion	
11.1. Information on toxicological effects		
Acute toxicity	: Not classified	
diethylene glycol (111-46-6)		
LD50 oral rat	19600 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male, Experimental value,	
	Oral)	
LD50 dermal rabbit	11890 mg/kg (Rabbit, Dermal)	
LC50 inhalation rat (mg/l)	> 4.6 mg/l/4h (Other, 4 h, Rat, Weight of evidence)	
ATE US (oral) ATE US (dermal)	500 mg/kg bodyweight       11890 mg/kg bodyweight	
ethylene glycol (107-21-1)		
LD50 oral rat	7712 mg/kg bodyweight (according to BASF-internal standards, Rat, Male / female,	
	Experimental value, Aqueous solution, Oral, 7 day(s))	
LC50 inhalation rat (mg/l)	> 2.5 mg/l (6 h, Rat, Male / female, Experimental value, Inhalation (aerosol))	
ATE US (oral)	500 mg/kg bodyweight	
Skin corrosion/irritation	: Not classified	
	pH: 10 - 11	
Serious eye damage/irritation	: Not classified	
Respiratory or skin sensitisation	pH: 10 - 11 : Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
STOT-single exposure	: Not classified	
STOT-repeated exposure	: May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).	
Aspiration hazard	: Not classified	
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.	
Symptoms/effects	: Causes damage to organs (kidneys) Oral.	
Symptoms/effects after skin contact	: May cause moderate irritation.	
Symptoms/effects after eye contact	: Direct contact with the eyes is likely to be irritating.	
Symptoms/effects after ingestion	: Swallowing a small quantity of this material will result in serious health hazard. The lethal dose	
	in humans is estimated to be 100 mL (3 oz).	

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<b>SECTION 12: Ecological information</b>	
12.1. Toxicity	
Ecology - general	: No additional information available.
diethylene glycol (111-46-6)	
LC50 fish 1	> 5,000.00 ppm (24 h, Carassius auratus)
EC50 Daphnia 1	> 10,000.00 mg/l (24 h, Daphnia magna)
LC50 fish 2	75,200.00 mg/l (Other, 96 h, Pimephales promelas, Flow-through system, Experimental value)
EC50 Daphnia 2	> 10,000.00 mg/l (DIN 38412-11, 24 h, Daphnia magna, Static system, Fresh water, Experimental value)
ethylene glycol (107-21-1)	
LC50 fish 1	40,761.00 mg/l (96 h, Salmo gairdneri, Static system)
EC50 Daphnia 1	> 10,000.00 mg/l (24 h, Daphnia magna)

#### 12.2. Persistence and degradability

diethylene glycol (111-46-6)		
Persistence and degradability	Biodegradable in the soil. Biodegradable in water.	
Biochemical oxygen demand (BOD)	0.02 g O <sub>2</sub> /g substance	
Chemical oxygen demand (COD)	1.51 g O <sub>2</sub> /g substance	
ThOD	1.51 g O <sub>2</sub> /g substance	
BOD (% of ThOD)	0.02	
ethylene glycol (107-21-1)		
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.	
Biochemical oxygen demand (BOD)	0.47 g O <sub>2</sub> /g substance	
Chemical oxygen demand (COD)	1.24 g O <sub>2</sub> /g substance	
Chemical oxygen demand (COD) ThOD	1.24 g O <sub>2</sub> /g substance 1.29 g O <sub>2</sub> /g substance	

#### 12.3. **Bioaccumulative potential**

diethylene glycol (111-46-6)	
BCF fish 1	100.00 (Other, 3 day(s), Leuciscus melanotus, Static system, Fresh water, Experimental value)
Log Pow	-1.98 (Calculated, Other)
Bioaccumulative potential	Not bioaccumulative.
ethylene glycol (107-21-1)	
BCF fish 1	10.00 (72 h, Leuciscus idus)
BCF other aquatic organisms 1	0.21 - 0.6 (Procambarus sp., Chronic)
BCF other aquatic organisms 2	190.00 (24 h, Algae)
Log Pow	-1.34 (Experimental value)
Bioaccumulative potential	Not bioaccumulative.

#### 12.4. Mobility in soil

diethylene glycol (111-46-6)				
Surface tension	0.05 N/m			
Log Koc	0.00 (log Koc, SRC PCKOCWIN v1.66, Calculated value)			
Ecology - soil	Highly mobile in soil.			
ethylene glycol (107-21-1)				
Surface tension	48.00 mN/m (20 °C)			
Ecology - soil	No (test)data on mobility of the substance available.			

12.5.	Other adverse effects	
Effect or	n the ozone layer	: No known effect on the ozone layer

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	NI- FO / Manualaus Manuals OC	0040 / Dulas and Danulations
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Other information	: Avoid release to the environment.
SECTION 13: Disposal consideration	ns
13.1. Waste treatment methods	
Product/Packaging disposal recommendations	: Dispose of contents/container to an approved waste disposal plant.
Ecology - waste materials	: Avoid release to the environment.

### **SECTION 14: Transport information**

### **Department of Transportation (DOT)**

In accordance with DOT

Non Bulk (in quantities under 5,000 lbs in any one inner package): Not regulated by the US DOT

### Bulk (in quantities 5,000 lbs or over in any one inner package):

Transport document description	: UN3082 Environmentally hazardous substances, liquid, n.o.s. (Ethylene Glycol), 9, III
UN-No.(DOT)	: UN3082
Proper Shipping Name (DOT)	: Environmentally hazardous substances, liquid, n.o.s.
	Ethylene Glycol
Class (DOT)	: 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140
Packing group (DOT)	: III - Minor Danger
Hazard labels (DOT)	: 9 - Class 9 (Miscellaneous dangerous materials)
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
DOT Symbols	: G - Identifies PSN requiring a technical name
DOT Packaging Exceptions (49 CFR 173.xxx)	: 155
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: No limit
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: No limit
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Other information	: No supplementary information available.
Transportation of Dangerous Goods	
Refer to current TDG Canada for further Cana	idian regulations
Transport by sea	
In accordance with IMDG / IMO	
Proper Shipping Name (IMDG)	: Not regulated by IMDG (in quantites under 5,000 lbs in any one inner package)
Air transport	
In accordance with IATA / ICAO	
Proper Shipping Name (IATA)	: Not regulated by IATA (in quantites under 5,000 lbs in any one inner package)
	. Not regulated by INTN (in quantities under 3,000 lbs in any one initiel package)
SECTION 15: Regulatory information	

SECTION 15: Regulatory information	ation		
15.1. US Federal regulations			

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EPA TSCA Regulatory Flag	Toxic Substances Control Act (TSCA): The intentional ingredients of this product are listed	
diethylene glycol (111-46-6)		

Listed on the United States TSCA (Toxic Substances Control Act) inventory				
ethylene glycol (107-21-1)				
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313				
EPA TSCA Regulatory Flag T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.				
CERCLA RQ	5000 lb(s)			
SARA Section 311/312 Hazard Classes         Refer to Section 2 for the OSHA hazard classification           Ethylene glycol is subject to Tier I and/or Tier II annual inventory reporting.				
SARA Section 313 - Emission Reporting Ethylene glycol is subject to Form R Reporting requirements.				
water (7732-18-5)				
Listed on the United States TSCA (Toxic Substances Control Act) inventory				

### 15.2. International regulations

#### CANADA

Thermal Charge EGSE 50/50 Prediluted Heat Transfer Fluid			
WHMIS Classification         This SDS has been prepared according to the criteria of the Hazardous Products Regulations (HPR) (WHMIS 2015) and the SDS contains all of the information required by the HPR. Applicable GHS information is listed in section 2.2 of this SDS.			

### 15.3. US State regulations

**WARNING**:

This product can expose you to ethylene glycol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

ethylene glycol (107-21-1)					
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
No	Yes	No	No		(ingested) 8,700 (oral) µg/day

### diethylene glycol (111-46-6)

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

### ethylene glycol (107-21-1)

U.S. - Massachusetts - Right To Know List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

### SECTION 16: Other information

Revision date

: 01/01/2023

Full text of H-statements:

H302	Harmful if swallowed.
H373	May cause damage to organs through prolonged or repeated
	exposure.

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NFPA health hazard	: 1 - Materials that, under emergency conditions, can cause significant irritation.	
NFPA fire hazard	: 1 - Materials that must be preheated before ignition can occur.	
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.	

SDS GHS US (GHS HazCom 2012) OWI 1

Old World Industries, LLC makes no warranty, representation or guarantee as to the accuracy, sufficiency or completeness of the material set forth herein. It is the user's responsibility to determine the safety, toxicity and suitability of his own use, handling and disposal of this product. Since actual use by others is beyond our control, no warranty, expressed or implied, is made by Old World Industries, LLC as to the effects of such use, the results to be obtained or the safety and toxicity of this product, nor does Old World Industries, LLC assume liability arising out of the use by others of this product referred to herein. The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.