

EOR0305/EOR0355

Heat Transfer Fluid

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g), Rev. 2012 and GHS Rev 03.



1. Identification

Product identifier

Trade name EOR0305/EOR0355

Product description Heat Transfer Fluid

Details of the supplier of the safety data sheet

Manufacturer/supplier Plastic Process Equipment, Inc.
8303 Corporate Park Drive
Macedonia, Ohio 44056

Emergency telephone number 800-424-9300

2. Hazard(s) Identification

Classification of the substance or mixture The substance is not classified according to the Globally Harmonized System (GHS).

Label elements

GHS label elements Non-regulated material

Hazard pictograms Non-regulated material

Signal word Non-regulated material

Hazard statements Non-regulated material

Classification System

NFPA ratings (scale 0-4)



Health=0; Fire=1; Reactivity=0

HMIS-ratings (scale 0 - 4)



Health=0; Fire=1; Reactivity=0

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3. Composition / Information on Ingredients

| | |
|---------------------------|--|
| Chemical characterization | Mixtures |
| Description | Mixture of the substances listed below with nonhazardous additions |
| Dangerous Components | Non-regulated material |

4. First-aid Measures

Description of first aid measures

| | |
|--|--|
| General information | No special measures required |
| After inhalation | Supply fresh air; consult doctor in case of complaints |
| After skin contact | Generally the product does not irritate the skin |
| After eye contact | Rinse opened eye for several minutes under running water |
| After swallowing | If symptoms persist, consult doctor |
| Most important symptoms and effects, both acute and delayed | No further relevant information available |
| Indication of any immediate medical attention and special treatment needed | No further relevant information available |

5. Fire-fighting Measures

Extinguishing media

| | |
|---|---|
| Suitable extinguishing agents | CO ₂ or Powder. Water mist to cool, no direct water spray. Collect spillage. |
| Special hazards arising from the substance or mixture | No further relevant information available |

Advice for firefighters

| | |
|----------------------|---|
| Protective equipment | As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes. |
|----------------------|---|

6. Accidental Release Measures

| | |
|---|--|
| Personal precautions, protective equipment and emergency procedures | Not required |
| Environmental precautions | No special measures required |
| Methods and material for containment and cleaning up | Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust). Dispose of the collected material according to regulations. See Section 7 for information on safe handling. |
| Reference to other sections | See Section 8 for information on personal protection equipment. See Section 13 for disposal information. |

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7. Handling and Storage

Precautions for safe handling No special measures required

Information about protection against explosions and fires No special measures required

Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and receptacles No special requirements

Information about storage in one common storage facility Not required

Further information about storage conditions None

Specific end use(s) No further relevant information available

8. Exposure Controls / Personal Protection

Additional information about design of technical systems No further data; see section 7

Control parameters

Components with occupational exposure limits The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace

Additional information The lists that were valid during the creation were used as basis

Exposure controls

Personal protective equipment

General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed

Breathing equipment Normally not necessary. If mist is generated, wear approved organic vapor respirator suitable for oil mist areas with sufficient oxygen.

Protection of hands Normally none required, for direct contact of more than 2 hours, PVC, Viton, or Nitrile gloves are recommended.

Material of gloves Not required

Penetration time of glove material Not applicable

Eye protection Normally none required, chemical goggles if splashing is likely or high pressure systems are used.

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9. Physical and Chemical Properties

Information on basic physical and chemical properties

General Information

Appearance

| | |
|----------------|------------------------------|
| Form | Liquid |
| Color | Slight amber tint |
| Odor | Very slight hydrocarbon odor |
| Odor threshold | Not determined |
| pH-value | Not determined |

Change in condition

| | |
|-----------------------------|----------------|
| Melting point/Melting range | Not applicable |
| Boiling point/Boiling range | >570°C(>298°C) |
| Flash Point | >430°F(>221°C) |
| Flammability (Solid/Gases) | Not applicable |

Ignition temperature

| | |
|---------------------------|----------------|
| Decomposition temperature | Not determined |
| Auto-ignition | Not determined |
| Danger of explosion | Not determined |

Explosion limits

| | |
|--|----------------|
| Lower | Not determined |
| Upper | Not determined |
| Vapor Pressure @ 20°C | Not determined |
| Density @ 20°C | 0.85-0.88 |
| Relative density | Not determined |
| Vapor density | Not determined |
| Evaporation rate | Not determined |
| Solubility in/Miscibility with water | Not miscible |
| Partition coefficient(n-octanol/water) | Not determined |

Viscosity

| | |
|-----------------------|------|
| Viscosity - Dynamic | 38.6 |
| Viscosity - Kinematic | 42.5 |

Solvent content

| | |
|-------------------|------------------------|
| Organic solvents | 0.00% |
| Other Information | No further information |

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10. Stability and Reactivity

| | |
|--|--|
| Reactivity | No further relevant information available |
| Chemical stability | Stable under normal conditions |
| Thermal decomposition / conditions to be avoided | No decomposition if used according to specifications |
| Possibility of hazardous reactions | No dangerous reactions known |
| Conditions to avoid | No further relevant information available |
| Incompatible materials | No further relevant information available |
| Hazardous decomposition products | No dangerous decomposition products known |

11. Toxicological Information

Information on toxicological effects

Acute toxicity

Primary irritant effect

| | |
|--------------------------------------|--|
| On the skin | No irritating effect |
| On the eye | No irritating effect |
| Additional toxicological information | The product is not subject to classification according to internally approved calculation methods for preparations: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us. |

Carcinogenic categories

| | |
|---|--|
| IARC (International Agency for Research on Cancer) | None of the ingredients are listed. Group 1 - Carcinogenic to humans Group 2A - Probably carcinogenic to humans Group 2B - Possibly carcinogenic to humans Group 3 - Not classifiable as to its carcinogenicity to humans Group 4 - Probably not carcinogenic to humans |
| NTP (National Toxicology Program) | None of the ingredients are listed |
| OSHA-Ca (Occupational Safety & Health Administration) | None of the ingredients are listed |

12. Ecological Information

| | |
|--|---|
| Toxicity | No data is available on this product |
| Aquatic toxicity | No further relevant information available |
| Persistence and degradability | No further relevant information available |
| Bioaccumulative potential | No further relevant information available |
| Mobility in soil | No further relevant information available |
| Additional ecological information | |

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12. Ecological Information (continued)

| | |
|---|---|
| General notes | Generally not hazardous for water |
| Results of PBT and vPvB assessment | |
| PBT | Not applicable |
| vPvB | Not applicable |
| Other adverse effects | No further relevant information available |

13. Disposal Considerations

Waste treatment methods

| | |
|----------------|--|
| Recommendation | Smaller quantities can be disposed of with household waste. Recycle or dispose with household trash. |
|----------------|--|

Uncleaned packagings

| | |
|----------------|--|
| Recommendation | Disposal must be made according to official regulations. |
|----------------|--|

14. Transportation Information

UN-Number

| | |
|----------------------|------------------------|
| DOT, ADN, IMDG, IATA | Non-regulated material |
| ADR | Non-regulated material |

UN proper shipping name

| | |
|---------------------------|------------------------|
| DOT, ADR, ADN, IMDG, IATA | Non-regulated material |
|---------------------------|------------------------|

Transport hazard class(es)

| | |
|---------------------------|------------------------|
| DOT, ADR, ADN, IMDG, IATA | |
| Class | Non-regulated material |

Packing group

| | |
|----------------------|------------------------|
| DOT, ADR, IMDG, IATA | Non-regulated material |
|----------------------|------------------------|

Environmental hazards

| | |
|---|----------------|
| Marine pollutant | No |
| Special precautions for user | Not applicable |
| Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable |
| UN "Model Regulation" | — |

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15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Sara

Section 355 (extremely hazardous substances) None of the ingredients are listed

Section 313 (Specific toxic chemical listings) None of the ingredients are listed

TSCA (Toxic Substances Control Act) None of the ingredients are listed

Proposition 65

Chemicals known to cause cancer None of the ingredients are listed

Chemicals known to cause reproductive toxicity for females None of the ingredients are listed

Chemicals known to cause reproductive toxicity for males None of the ingredients are listed

Chemicals known to cause developmental toxicity None of the ingredients are listed

Carcinogenic categories

EPA (Environmental Protection Agency) None of the ingredients are listed

TLV (Threshold Limit Value established by ACGIH) None of the ingredients are listed

NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients are listed

GHS label elements Non-regulated material

Hazard pictograms Non-regulated material

Signal word Non-regulated material

Hazard statements Non-regulated material

National regulations Non-regulated material

State Right to Know Non-regulated material

Chemical safety assessment A Chemical Safety Assessment has not been carried out.

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16. Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

Date of preparation / last revision

02/19/2016 / 1

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)