Food-Grade 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	OPTI-THERM® PM0605/PM0655
Product description	Food-Grade Heat Transfer Fluid
Details of the supplier of the safety of	lata sheet
Manufacturer/supplier	Plastic Process Equipment, Inc. 8303 Corporate Park Drive Macedonia, Ohio 44056
Emergency telephone number	800-424-9300

2. Hazard(s) Identification

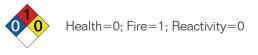
Classification of the substance or mixture The substance is not classified according to the Globally Harmonized System (GHS).

Label elements GHS label elements Hazard pictograms Signal word Hazard statements Classification System

NFPA ratings (scale 0-4)

HMIS-ratings (scale 0 - 4)

Non-regulated material	
Non-regulated material	
Non-regulated material	
Non-regulated material	



HEALTH0FIRE1Health=0; Fire=1; Reactivity=0REACTIVITY

3. Composition / Information on Ingredients

Chemical characterizationMixturesDescriptionMixture of the substances listed below with nonhazardous additionsDangerous ComponentsNon-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	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Treat symptomatically.
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

Environmental precautions Methods and material for containment and cleaning up

Reference to other sections

Not required

No special measures required

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. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

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.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

General Information Appearance

Appearance	
Form	Liquid
Color	Slight yellow tint
Odor	Typical
Odor Threshold	Not determined
pH-value	Not determined
Change in Condition	
Melting point/Melting range	Not applicable
Boiling point/Boiling range	>570°F(>298°C)
Flash Point	>425°F(>218°C)
Flammability	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/with water	Not determined
Viscosity	
Viscosity - Dynamic	35 cSt
Viscosity - Kinematic	40 cSt
Solvent Content	
Organic Solvents	0.00%
Other Information	No further information

10. Stability and Reactivity

No further relevant information available
Stable under normal conditions
No decomposition if used according to specifications
No dangerous reactions known
No further relevant information available
No further relevant information available
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

loxicity
Aquatic toxicity
Persistence and degradability
Bioaccumulative potential
Mobility in soil
Additional ecological information

No data is available on this product No further relevant information available No further relevant information available No further relevant information available

12. Ecological Information (continued)

General notesGenerally not hazardous for waterResults of PBT and vPvB assessmentNot applicablePBTNot applicablevPvBNot applicableOther adverse effectsNo 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"	_

15. Regulatory Information

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

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)	All components are either listed or not regulated under TSCA
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.

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

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)

Abbreviations and acronyms