

OPTI-THERM® XR

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® XR0505/XR0555

Product description Food-Grade 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

OPTI-THERM® XR

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.

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

Form	Liquid
Color	Slight yellow tint
Odor	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°F (>298°C)
Flash Point	>430°F(>217°C)
Flammability (solid/gaseous)	Not applicable

Ignition temperature

Decomposition temperature	Not determined
Auto-igniting	Not determined
Danger of explosion	Not determined

Explosion limits

Lower	Not determined
Upper	Not determined
Vapor Pressure @ 20 DEG C	<0.003 kPa

Density @ 20 DEG 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 - Kinematic	43
-----------------------	----

Solvent content

Organic solvents	0.00%
Other Information	No further information

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	

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"	—

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.

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)