# **OPTI-THERM® EPM**

#### 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® EPM0405/EPM0455

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, OH 44056

Emergency telephone number 800-535-5053

#### 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

Non-regulated material

Non-regulated material

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)

FIRE 1

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<sub>2</sub> 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

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH Protective equipment

approved or equivalent), and full protective gear to prevent contact with skin and eyes.

#### 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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Not required

### 7. Handling and Storage

Precautions for safe handling No special measures required Information about protection against No special measures required

explosions and fires

Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by

No special requirements storerooms and receptacles

Information about storage in one

common storage facility

Further information about None

storage conditions

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 See product

Odor Mild

Odor Threshold Not determined PH-value Not determined

Change in condition

Melting point/Melting range

Boiling point/Boiling range

>570°F (>298°C)

Flash Point

Flammability (solid/gaseous)

Not applicable

Not applicable

Ignition temperature

Decomposition temperature

Auto-igniting

Not determined

Not determined

Not determined

**Explosion limits** 

LowerNot determinedUpperNot determinedVapor Pressure @ 20 DEG C<0.003 kPa</td>Density @ 20 DEG C0.85-0.88

Relative Density

Vapor Density

Not determined

Evaporation Rate

Solubility in/Miscibility with Water

Partition coefficient (n-octanol/water)

Not determined

Not determined

Not determined

Viscosity

Viscosity - Dynamic 33.6 Viscosity - Kinematic 40

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) OSHA-Ca (Occupational Safety

& Health Administration)

None of the ingredients are listed 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)

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

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 Not applicable

of MARPOL73/78 and the IBC Code

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)

Section 313 (Specific toxic

chemical listings)

None of the ingredients are listed

None of the ingredients are listed

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

**Proposition 65** 

Chemicals known to cause cancer

Chemicals known to cause reproductive

toxicity for females

None of the ingredients are listed None of the ingredients are listed

Chemicals known to cause reproductive None of the ingredients are listed

toxicity for males

Chemicals known to cause

developmental toxicity

None of the ingredients are listed

Carcinogenic categories

EPA (Environmental Protection Agency)

TLV (Threshold Limit Value established

by ACGIH)

None of the ingredients are listed

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.

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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 Danger-

ous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

Abbreviations and acronyms

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)

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