

Safety Data Sheet
acc. to OSHA HCS

Printing date 09/30/2019

Reviewed on 09/30/2019

1 Identification

- **Product identifier**
 - **Trade name:** Polytherm PAG 140 060350
 - **Recommended use:** Heat transfer fluid
 - **Restrictions on use:** For industrial use only
- **Details of the supplier of the safety data sheet**
 - **Manufacturer/Supplier:**
Kitpackers, LLC
N109 W13300 Ellsworth Drive
Germantown, WI 53022
1-877-259-1669
www.kitpackers.com
 - **Emergency Telephone Number:** North America - Chemtrec: 1-800-424-9300 (24 hours)

2 Hazard(s) identification

- **Classification of the substance or mixture**
Acute Tox. 4 H302 Harmful if swallowed.
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2A H319 Causes serious eye irritation.
- **Label elements**
 - **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
 - **Hazard pictograms**



GHS07

- **Signal word:** Warning
- **Hazard-determining components of labeling:**
Polyalkylene glycol
- **Hazard statements**
H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
- **Precautionary statements**
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear protective gloves / eye protection / face protection.
If swallowed: Call a poison center/doctor if you feel unwell.
Rinse mouth.
If on skin: Wash with plenty of water.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If skin irritation occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
If eye irritation persists: Get medical advice/attention.
Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Classification system:**
 - **NFPA System**
 - **NFPA ratings (scale 0 - 4)**



NFPA special hazards (water reactivity and oxidizing property): None

- **HMS System**
 - **HMS-ratings (scale 0 - 4)**
- | | | |
|------------|---|----------------|
| HEALTH | 2 | Health = 2 |
| FIRE | 0 | Fire = 0 |
| REACTIVITY | 0 | Reactivity = 0 |
- **Other hazards**
 - **Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
 - **Dangerous components:**

9003-13-8	Polyalkylene glycol	Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319 Flam. Liq. 4, H227	30-40%
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(Contd. on page 2)

Safety Data Sheet

acc. to OSHA HCS

Printing date 09/30/2019

Reviewed on 09/30/2019

Trade name: **Polytherm PAG 140 060350**

(Contd. of page 1)

· **Additional information:**
If the chemical name/CAS number is proprietary and or weight percentage is listed as a range, the specific chemical identity and or percentage of composition has been withheld as a trade secret.

4 First-aid measures

- **Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:**
Remove victim from exposure to fresh air. Keep person at rest. Provide oxygen if person is not breathing. In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly. If skin rash or irritation occurs, seek medical advice. Remove all contaminated clothing and wash before reuse.
- **After eye contact:**
Immediately flush opened eyes with water for 5 minutes, then remove contact lenses if present, continue flushing for at least another 15 minutes. If symptoms develop seek medical attention.
- **After swallowing:**
If victim is unconscious; never give anything by mouth. Do NOT induce vomiting. If victim is conscious, rinse out mouth with water. Call a doctor immediately. Immediately call a doctor.
- **Information for 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** Check section 11 Toxicological Information for further relevant information.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
Use fire fighting measures that suit the environment.
Water spray
Alcohol resistant foam
Carbon dioxide
Fire-extinguishing powder
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture**
Will not burn unless preheated.
Toxic gases
Carbon dioxide (CO₂) and Carbon monoxide (CO)
- **Advice for firefighters**
- **Protective equipment:**
If employees are expected to fight fires, they must be trained and equipped as stated in the OSHA fire brigades standard (29 CFR 1910.156).
As with any fire, wear positive-pressure self-contained breathing apparatus and full protective gear that are NIOSH approved.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Do not breathe gas, vapors, dusts or mists if their inhalable particles occur during use.
- **Environmental precautions:** Inform respective authorities in case of seepage into water course or sewage system.
- **Methods and material for containment and cleaning up:**
For large spills: provide diking or containment to minimize spreading. If possible pump and store material in appropriate container.
For small spills: Ventilate and wash area. Collect spills and absorbant material in appropriate container.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Keep away from incompatible material(s).
Avoid any release into the environment.
Do not breathe dust/fumes/mist/vapor/spray.
Avoid contact with eyes, skin and clothing.
Keep away from heat, sparks, flames and ignition sources.
Observe all the personal protection requirements in Section 8.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
 - **Requirements to be met by storerooms and receptacles:**
Keep stored in accordance with local, regional, national, and international regulations.

US
(Contd. on page 3)

Safety Data Sheet acc. to OSHA HCS

Printing date 09/30/2019

Reviewed on 09/30/2019

Trade name: Polytherm PAG 140 060350

(Contd. of page 2)

8 Exposure controls/personal protection

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

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

· **Additional Occupational Exposure Limit Values for possible hazards during processing:** None.

· **Exposure controls**

If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

· **Personal Protective Equipment (PPE)**

· **Breathing equipment:**

Sufficient ventilation in pattern and volume should be provided in order to maintain air contaminant levels below recommended exposure limits.

Use a NIOSH approved air-purifying organic vapor respirator if occupational limits are exceeded. For emergency situations, confined space use, or other conditions where exposure limits may be greatly exceeded, use an approved air supplied respirator. Observe OSHA regulations (29CFR 1910.134) for respirator use.

· **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**



Chemical resistant gloves

· **Eye protection:**



Safety Glasses with side shields

· **Body protection:** Appropriate chemical resistant clothing.

· **Limitation and supervision of exposure into the environment**

The Engineering measures or controls, and PPE recommendations are only guidelines and may not apply to every situation. For additional information, please consult the corresponding requirements under OSHA 29 CFR 1910.94-95, and 29 CFR 1910.132-138.

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· **Form:**

Liquid

· **Color:**

clear to yellow

· **Odor:**

Characteristic

· **Odor threshold:**

Not determined.

· **pH-value:**

Not determined.

Not determined.

· **Change in condition**

· **Melting point/Melting range:**

Undetermined.

· **Boiling point/Boiling range:**

>287 °C (>548.6 °F)

· **Flash point:**

>243 °C (>469.4 °F)

· **Flammability (solid, gaseous):**

Not applicable.

· **Ignition temperature:**

Not determined.

Not applicable.

· **Decomposition temperature:**

Not determined.

· **Auto igniting:**

Product is not selfigniting.

· **Danger of explosion:**

Product does not present an explosion hazard.

· **Explosion limits:**

· **Lower:**

Not determined.

· **Upper:**

Not determined.

· **Vapor pressure:**

Not determined.

· **Vapor Density:**

not determined

· **Density at 20 °C (68 °F):**

0.91-0.93 g/cm³ (7.59-7.76 lbs/gal)

· **Relative density**

Not determined.

· **Vapor density**

Not determined.

· **Evaporation rate**

Not determined.

(Contd. on page 4)

Safety Data Sheet acc. to OSHA HCS

Printing date 09/30/2019

Reviewed on 09/30/2019

Trade name: Polytherm PAG 140 060350

(Contd. of page 3)

- **Solubility in / Miscibility with Water:** Not miscible or difficult to mix.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
 - **Dynamic:** Not available.
Not determined.
 - **Kinematic:** Not available.
 - **VOC content:** 0.00 %
0.0 g/l / 0.00 lb/gal

10 Stability and reactivity

- **Reactivity** No further relevant information available.
 - **Hazardous Reactivity and Chemical Stability** Stable under normal conditions of use, storage and temperatures.
 - **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions**
In contact with incompatible materials.
No dangerous reactions known.
- **Conditions to avoid** Keep away from heat, sparks, flame and any other ignition sources.
- **Incompatible materials:**
 - Acids
 - Oxidizing agents
- **Hazardous decomposition products:** Refer to section 5.

11 Toxicological information

- **Information on toxicological effects**
 - **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

26761-40-0 di-"isodecyl" phthalate

Oral	LD50	64,000 mg/kg (rat)
Dermal	LD50	>3,160 mg/kg (rabbit)

64742-54-7 Distillates (petroleum), hydrotreated heavy paraffinic

Oral	LD50	>15,000 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)

9003-13-8 Polyalkylene glycol

Oral	LD50	>300-<2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)

· **Primary irritant effect:**

- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.

· **Sensitization:** No sensitizing effects known.

· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:
Harmful
Irritant

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
 - **Bioaccumulative potential**
No data available.
No further relevant information available.
 - **Mobility in soil** No further relevant information available.
- **Additional ecological information:** The product is non-rapid degradable, and low or not highly bioaccumulative.
 - **General notes:**
Water hazard class 3 (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.
- **Results of PBT and vPvB assessment**
 - **PBT:** None of the ingredients is listed.
 - **vPvB:** None of the ingredients is listed.

(Contd. on page 5)

Safety Data Sheet acc. to OSHA HCS

Printing date 09/30/2019

Reviewed on 09/30/2019

Trade name: Polytherm PAG 140 060350

· **Other adverse effects** No further relevant information available.

(Contd. of page 4)

13 Disposal considerations

- **Waste treatment methods**
 - **Recommendation:** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
 - **Recommendation:** Dispose of according to your local waste regulations.

14 Transport information

· UN-Number	
· DOT, IMDG, IATA	not regulated
· UN proper shipping name	
· DOT, IMDG, IATA	not regulated
· Transport hazard class(es)	
· DOT, ADN, IMDG, IATA	
· Class	not regulated
· Packing group	
· DOT, IMDG, IATA	not regulated
· Environmental hazards:	Not applicable.
· 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":	not regulated

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 is listed.		
· SARA Section 313 (Specific toxic chemical listings):		
None of the ingredients is listed.		
· Section 311/312 (Hazardous Chemical Inventory reporting)		
· SARA Section 311/312 (Hazardous Chemical Inventory Reporting)		
None of the ingredients is listed.		
· Hazard Abbreviations for SARA 311/312		
A - Acute Health Hazard		
C - Chronic Health Hazard		
F - Fire Hazard		
R - Reactive Hazard		
S - Sudden Release of Pressure Hazard		
· TSCA 8 (b) Inventory:		
26761-40-0	di-"isodecyl" phthalate	ACTIVE
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic	ACTIVE
9003-13-8	Polyalkylene glycol	ACTIVE
· Hazardous Air Pollutants		
None of the ingredients is listed.		
· Proposition 65		
· Chemicals known to cause cancer:		
None of the ingredients is listed.		
· Chemicals known to cause reproductive toxicity for females:		
None of the ingredients is listed.		
· Chemicals known to cause reproductive toxicity for males:		
None of the ingredients is listed.		
· Chemicals known to cause developmental toxicity:		
26761-40-0	di-"isodecyl" phthalate	
· Carcinogenic categories		
· EPA (Environmental Protection Agency)		
None of the ingredients is listed.		
· TLV (Threshold Limit Value established by ACGIH)		
None of the ingredients is listed.		
· NIOSH-Ca (National Institute for Occupational Safety and Health)		
None of the ingredients is listed.		

(Contd. on page 6)

Safety Data Sheet acc. to OSHA HCS

Printing date 09/30/2019

Reviewed on 09/30/2019

Trade name: **Polytherm PAG 140 060350**

(Contd. of page 5)

· **International Regulation Lists**

· **REACH - Substances of Very High Concern (SVHC) List:**

None of the ingredients is listed.

· **Restriction of Hazardous Substances Directive (RoHS) list:**

None of the ingredients is listed.

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

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Date of preparation / last revision** 09/30/2019 / 2
- *** Data compared to the previous version altered.**

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