

## SOLUTHERM™ PG HD 25 HTF (USA)

Version number: 2.0  
Replaces version of: 2026-09-11 (1)

Revision: 2026-09-28

### SECTION 1: Identification

#### 1.1 Product identifier

Trade name **SOLUTHERM™ PG HD 25 HTF (USA)**

#### 1.1.7 SDS ID

RC 00445

Product number

11231, 11310, 11322

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

Professional use  
Industrial use

#### 1.3 Details of the supplier of the safety data sheet

KOST USA, LLC  
1000 Tennessee Avenue  
Cincinnati OH 45229  
United States

Telephone: 1-800-661-9391  
Telefax: 1-513-492-5555  
e-mail: customerservice@kostusa.com  
Website: www.kostusa.com

#### 1.4 Emergency telephone number

Emergency information service

CHEMTREC 1-800-424-9300  
24 hr emergency information

### SECTION 2: Hazard(s) identification

#### 2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

This mixture does not meet the criteria for classification.

Additional information

Contains a PBT-/vPvB-substance at a concentration of  $\geq 0.1\%$ .

#### 2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

not required

#### 2.3 Other hazards

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of  $\geq 0.1\%$ .

### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

Not relevant (mixture)

#### 3.2 Mixtures

Description of the mixture

This product does not meet the criteria for classification in any hazard class according to GHS.

#### Remarks

Exact percentage of ingredients is withheld as a trade secret.

*This table, if present, includes all GHS classified ingredients present above their cut-off limits, even if the finished product is not classified as hazardous by GHS.*

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### SECTION 4: First-aid measures

#### 4.1 Description of first-aid measures

##### General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

##### Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

##### Following skin contact

Wash with plenty of soap and water.

##### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing.

##### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

### SECTION 5: Fire-fighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing media

Water spray, Alcohol resistant foam, BC-powder, Carbon dioxide (CO<sub>2</sub>)

#### 5.2 Special hazards arising from the substance or mixture

none

##### Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

##### For non-emergency personnel

Remove persons to safety.

##### For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

#### 6.2 Environmental precautions

not required

#### 6.3 Methods and material for containment and cleaning up

##### Advice on how to contain a spill

Covering of drains

##### Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

##### Appropriate containment techniques

Use of adsorbent materials.

##### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

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**6.4 Reference to other sections**

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Recommendations

- Measures to prevent fire as well as aerosol and dust generation  
Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

**7.2 Conditions for safe storage, including any incompatibilities**

Control of the effects

Protect against external exposure, such as  
frost

**7.3 Specific end use(s)**

See section 16 for a general overview.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters**

Occupational exposure limit values (Workplace Exposure Limits)  
this information is not available

**8.2 Exposure controls**

Appropriate engineering controls  
General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

|                |        |
|----------------|--------|
| Physical state | liquid |
|----------------|--------|

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|                                                          |                      |
|----------------------------------------------------------|----------------------|
| Color                                                    | pink                 |
| Odor                                                     | characteristic       |
| Melting point/freezing point                             | 15 °F / -9.44 °C     |
| Boiling point or initial boiling point and boiling range | 100 °C               |
| Flammability                                             | non-combustible      |
| Lower and upper explosion limit                          | 2.6 vol% - 12.5 vol% |
| Flash point                                              | not determined       |
| Auto-ignition temperature                                | >400 °C              |
| Decomposition temperature                                | not relevant         |
| pH (value)                                               | 9.2 – 10.6           |
| Kinematic viscosity                                      | not determined       |

### Solubility(ies)

|                  |                            |
|------------------|----------------------------|
| Water solubility | miscible in any proportion |
|------------------|----------------------------|

### Partition coefficient

|                                                   |                                   |
|---------------------------------------------------|-----------------------------------|
| Partition coefficient n-octanol/water (log value) | this information is not available |
|---------------------------------------------------|-----------------------------------|

|                |                |
|----------------|----------------|
| Vapor pressure | 20 Pa at 25 °C |
|----------------|----------------|

### Density and/or relative density

|                         |                                               |
|-------------------------|-----------------------------------------------|
| Density                 | 1.027 g/ml at 20 °C                           |
| Relative vapour density | information on this property is not available |

|                          |                       |
|--------------------------|-----------------------|
| Particle characteristics | not relevant (liquid) |
|--------------------------|-----------------------|

## 9.2 Other information

|                                                    |                                                                |
|----------------------------------------------------|----------------------------------------------------------------|
| Information with regard to physical hazard classes | hazard classes acc. to GHS (physical hazards):<br>not relevant |
|----------------------------------------------------|----------------------------------------------------------------|

### Other safety characteristics

|                                          |                                                                      |
|------------------------------------------|----------------------------------------------------------------------|
| Miscibility                              | Completely miscible with water.                                      |
| Temperature class (USA, acc. to NEC 500) | T2 (maximum permissible surface temperature on the equipment: 300°C) |

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### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

#### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

#### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

#### 10.5 Incompatible materials

Oxidizers

#### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

##### Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

##### Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

This mixture does not meet the criteria for classification.

##### Acute toxicity

Shall not be classified as acutely toxic.

##### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

##### Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

##### Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitizer.

##### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

##### Carcinogenicity

Shall not be classified as carcinogenic.

##### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

##### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

##### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

##### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

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### SECTION 12: Ecological information

#### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

#### 12.2 Persistence and degradability

Data are not available.

#### 12.3 Bioaccumulative potential

Data are not available.

#### 12.4 Mobility in soil

Data are not available.

#### 12.5 Results of PBT and vPvB assessment

Data are not available.

#### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of  $\geq 0.1\%$ .

#### 12.7 Other adverse effects

Data are not available.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

#### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

### SECTION 14: Transport information

- |                                                            |                                                                       |
|------------------------------------------------------------|-----------------------------------------------------------------------|
| <b>14.1 UN number</b>                                      | not subject to transport regulations                                  |
| <b>14.2 UN proper shipping name</b>                        | not relevant                                                          |
| <b>14.3 Transport hazard class(es)</b>                     | none                                                                  |
| <b>14.4 Packing group</b>                                  | not assigned                                                          |
| <b>14.5 Environmental hazards</b>                          | non-environmentally hazardous acc. to the dangerous goods regulations |
| <b>14.6 Special precautions for user</b>                   | There is no additional information.                                   |
| <b>14.7 Transport in bulk according to IMO instruments</b> | The cargo is not intended to be carried in bulk.                      |

#### Information for each of the UN Model Regulations

##### **Transport of dangerous goods by road or rail (49 CFR US DOT)**

Not subject to transport regulations.

##### **International Maritime Dangerous Goods Code (IMDG)**

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Not subject to IMDG.

### International Civil Aviation Organization (ICAO-IATA/DGR)

Not subject to ICAO-IATA.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations specific for the product in question

#### National regulations (United States)

##### Toxic Substances Control Act (TSCA)

all ingredients are listed

##### California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

| Proposition 65 List of chemicals |          |         |                      |
|----------------------------------|----------|---------|----------------------|
| Name acc. to inventory           | CAS No   | Remarks | Type of the toxicity |
| ethylene oxide                   | 75-21-8  |         | cancer               |
| ethylene oxide                   | 75-21-8  |         | female               |
| ethylene oxide                   | 75-21-8  |         | developmental, male  |
| 1,4-dioxane                      | 123-91-1 |         | cancer               |
| propylene oxide                  | 75-56-9  |         | cancer               |

#### VOC content

|                                                      |         |
|------------------------------------------------------|---------|
| - Regulated Volatile Organic Compounds (VOC-EPA)     | 25.51 % |
| - Regulated Volatile Organic Compounds (VOC-Cal ARB) | 25.51 % |

#### Industry or sector specific available guidance(s)

##### NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

| Category            | Rating | Description                                                                                                                                                |
|---------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chronic             | /      | none                                                                                                                                                       |
| Health              | 0      | no significant risk to health                                                                                                                              |
| Flammability        | 0      | material that will not burn under typical fire conditions                                                                                                  |
| Physical hazard     | 0      | material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive |
| Personal protection | -      |                                                                                                                                                            |

|                      |                                                    |
|----------------------|----------------------------------------------------|
| Chronic:             | chronic hazard                                     |
| Flammability:        | flammability hazards                               |
| Health:              | health hazard                                      |
| Personal protection: | personal protective equipment (PPE) for normal use |
| Physical hazard:     | reactivity                                         |

##### NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

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| Category       | Degree of hazard | Description                                                                                                   |
|----------------|------------------|---------------------------------------------------------------------------------------------------------------|
| Flammability   | 0                | material that will not burn under typical fire conditions                                                     |
| Health         | 0                | material that, under emergency conditions, would offer no hazard beyond that of ordinary combustible material |
| Instability    | 0                | material that is normally stable, even under fire conditions                                                  |
| Special hazard |                  |                                                                                                               |

### National inventories

| Country | Inventory  | Status                              |
|---------|------------|-------------------------------------|
| AU      | AIIC       | not all ingredients are listed      |
| CA      | DSL        | not all ingredients are listed      |
| CA      | NDSL       | not all ingredients are listed      |
| CN      | IECSC      | not all ingredients are listed      |
| EU      | ECSI       | not all ingredients are listed      |
| EU      | REACH Reg. | not all ingredients are listed      |
| JP      | CSCL-ENCS  | not all ingredients are listed      |
| JP      | ISHA-ENCS  | not all ingredients are listed      |
| KR      | KECI       | not all ingredients are listed      |
| MX      | INSQ       | not all ingredients are listed      |
| NZ      | NZIoC      | not all ingredients are listed      |
| PH      | PICCS      | not all ingredients are listed      |
| TR      | CICR       | not all ingredients are listed      |
| TW      | TCSI       | not all ingredients are listed      |
| US      | TSCA       | all ingredients are listed (ACTIVE) |

#### Legend

|            |                                                                         |
|------------|-------------------------------------------------------------------------|
| AIIC       | Australian Inventory of Industrial Chemicals                            |
| CICR       | Chemical Inventory and Control Regulation                               |
| CSCL-ENCS  | List of Existing and New Chemical Substances (CSCL-ENCS)                |
| DSL        | Domestic Substances List (DSL)                                          |
| ECSI       | EC Substance Inventory (EINECS, ELINCS, NLP)                            |
| IECSC      | Inventory of Existing Chemical Substances Produced or Imported in China |
| INSQ       | National Inventory of Chemical Substances                               |
| ISHA-ENCS  | Inventory of Existing and New Chemical Substances (ISHA-ENCS)           |
| KECI       | Korea Existing Chemicals Inventory                                      |
| NDSL       | Non-domestic Substances List (NDSL)                                     |
| NZIoC      | New Zealand Inventory of Chemicals                                      |
| PICCS      | Philippine Inventory of Chemicals and Chemical Substances (PICCS)       |
| REACH Reg. | REACH registered substances                                             |
| TCSI       | Taiwan Chemical Substance Inventory                                     |
| TSCA       | Toxic Substances Control Act                                            |

### Additional information

The contained substances are listed in the following national inventories:  
DSL/NDSL (Canada)  
TSCA (United States)

## 15.2 Chemical Safety Assessment

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Chemical safety assessments for substances in this mixture were not carried out.

### SECTION 16: Other information, including date of preparation or last revision

#### Indication of changes (revised safety data sheet)

Alignment to regulation: Globally Harmonized System of Classification and Labelling of Chemicals ("Purple book").  
Restructuring: section 9, section 14

| Section | Former entry (text/value)              | Actual entry (text/value)                    | Safety-relevant |
|---------|----------------------------------------|----------------------------------------------|-----------------|
| 1.1     | Trade name:<br>SOLUTHERM™ PG HD 25 HTF | Trade name:<br>SOLUTHERM™ PG HD 25 HTF (USA) | yes             |

#### Abbreviations and acronyms

| Abbr.          | Descriptions of used abbreviations                                                                                                                 |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| 49 CFR US DOT  | 49 CFR U.S. Department of Transportation                                                                                                           |
| Cal ARB        | California Air Resources Board                                                                                                                     |
| CAS            | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)                                             |
| DGR            | Dangerous Goods Regulations (see IATA/DGR)                                                                                                         |
| ED             | Endocrine disruptor                                                                                                                                |
| EINECS         | European Inventory of Existing Commercial Chemical Substances                                                                                      |
| ELINCS         | European List of Notified Chemical Substances                                                                                                      |
| EPA            | Environmental Protection Agency. An agency of the federal government of the United States charged with protecting human health and the environment |
| GHS            | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations                                          |
| IATA           | International Air Transport Association                                                                                                            |
| IATA/DGR       | Dangerous Goods Regulations (DGR) for the air transport (IATA)                                                                                     |
| ICAO           | International Civil Aviation Organization                                                                                                          |
| IMDG           | International Maritime Dangerous Goods Code                                                                                                        |
| NLP            | No-Longer Polymer                                                                                                                                  |
| NPCA-HMIS® III | National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition                                      |
| OSHA           | Occupational Safety and Health Administration (United States)                                                                                      |
| PBT            | Persistent, Bioaccumulative and Toxic                                                                                                              |
| UN             | United Nations                                                                                                                                     |
| VOC            | Volatile Organic Compounds                                                                                                                         |
| vPvB           | Very Persistent and very Bioaccumulative                                                                                                           |

#### Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.  
Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

#### Classification procedure

Physical and chemical properties: The classification is based on tested mixture.  
Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

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### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.