

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

- Trade name FOMBLIN® DA 305

**1.2 Relevant identified uses of the substance or mixture and uses advised against****Uses of the Substance / Mixture**

- Additive
- For industrial use only

**1.3 Details of the supplier of the safety data sheet****Company**

SOLVAY SPECIALTY POLYMERS USA, LLC  
4500 McGINNIS FERRY ROAD  
30005-3914, ALPHARETTA  
USA  
Tel: +1-770-7728200  
Fax: +1-770-7728213  
Product Information:  
+1-800-2210553

**1.4 Emergency telephone**

FOR EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CONTACT CHEMTREC (24-Hour Number): +1-800-424-9300 within the United States and Canada, or +1-703-527-3887 for international collect calls.

**SECTION 2: Hazards identification**

Although OSHA has not adopted the environmental portion of the GHS regulations, this document may include information on environmental effects.

**2.1 Classification of the substance or mixture****HCS 2012 (29 CFR 1910.1200)**

- Not a hazardous product according to the OSHA Globally Harmonized System (GHS).

**2.2 Label elements****HCS 2012 (29 CFR 1910.1200)**

- Not a hazardous product according to the OSHA Globally Harmonized System (GHS).

**2.3 Other hazards which do not result in classification**

None identified

**SECTION 3: Composition/information on ingredients****3.1 Substance**

- Chemical nature Fluoropolyether derivative

**Hazardous Ingredients and Impurities**

- No ingredients are hazardous.

**3.2 Mixture**

- Not applicable, this product is a substance.

**SECTION 4: First aid measures****4.1 Description of first-aid measures****In case of inhalation**

- Move to fresh air in case of accidental inhalation of fumes from overheating or combustion.
- Oxygen or artificial respiration if needed.

**In case of skin contact**

- Wash with plenty of soap and water.

**In case of eye contact**

- Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
- If eye irritation persists, consult a specialist.

**In case of ingestion**

- Drink 1 or 2 glasses of water.
- Do NOT induce vomiting.
- If symptoms persist, call a physician.

**4.2 Most important symptoms and effects, both acute and delayed****In case of inhalation****Effects**

- No known effect.

**In case of skin contact****Effects**

- No skin irritation

**In case of eye contact****Effects**

- slight irritation
- Redness

**In case of ingestion****Symptoms**

- Ingestion may provoke the following symptoms:
- Nausea
- Vomiting
- Diarrhea

**4.3 Indication of any immediate medical attention and special treatment needed**

- no data available

**SECTION 5: Firefighting measures**

**Flash point** The product is not flammable.

**Autoignition temperature** No data available

**Flammability / Explosive limit** No data available

**5.1 Extinguishing media****Suitable extinguishing media**

- Water
- powder
- Foam
- Dry chemical
- Carbon dioxide (CO<sub>2</sub>)

**Unsuitable extinguishing media**

- None.

**5.2 Special hazards arising from the substance or mixture****Specific hazards during fire fighting**

- The product is not flammable.
- Not explosive
- In case of fire hazardous decomposition products may be produced such as: Gaseous hydrogen fluoride (HF), Fluorophosgene

**Hazardous combustion products:**

- Gaseous hydrogen fluoride (HF).
- Fluorophosgene
- The release of other hazardous decomposition products is possible.

**5.3 Advice for firefighters****Special protective equipment for fire-fighters**

- Wear self-contained breathing apparatus and protective suit.
- When intervention in close proximity wear acid resistant over suit.

**Further information**

- Evacuate personnel to safe areas.
- Approach from upwind.
- Protect intervention team with a water spray as they approach the fire.
- Keep containers and surroundings cool with water spray.
- Keep product and empty container away from heat and sources of ignition.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

**Advice for non-emergency personnel**

- Prevent further leakage or spillage if safe to do so.

**Advice for emergency responders**

- Ensure adequate ventilation.
- Material can create slippery conditions.
- Sweep up to prevent slipping hazard.
- Keep away from open flames, hot surfaces and sources of ignition.

**6.2 Environmental precautions**

- The product should not be allowed to enter drains, water courses or the soil.
- In case of accidental release or spill, immediately notify the appropriate authorities if required by Federal, State/Provincial and local laws and regulations.
- Should not be released into the environment.
- Do not flush into surface water or sanitary sewer system.

**6.3 Methods and materials for containment and cleaning up**

- Soak up with inert absorbent material.
- Suitable material for picking up.
- Dry sand
- Earth
- Shovel into suitable container for disposal.

**6.4 Reference to other sections**

- Refer to protective measures listed in sections 7 and 8.

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

- Ensure adequate ventilation.
- Keep away from heat and sources of ignition.
- Use personal protective equipment.
- To avoid thermal decomposition, do not overheat.
- Take measures to prevent the build up of electrostatic charge.
- Clean and dry piping circuits and equipment before any operations.
- Ensure all equipment is electrically grounded before beginning transfer operations.

**Hygiene measures**

- Ensure that eyewash stations and safety showers are close to the workstation location.
- When using do not eat, drink or smoke.
- Wash hands before breaks and at the end of workday.
- Take off contaminated clothing and wash before reuse.
- Handle in accordance with good industrial hygiene and safety practice.

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

**Technical measures/Storage conditions**

- Keep away from heat and sources of ignition.
- Keep in properly labeled containers.
- Keep away from combustible material.
- Keep away from incompatible products
- Provide tight electrical equipment well protected against corrosion.
- Refer to protective measures listed in sections 7 and 8.

**Packaging material****Suitable material**

- Plastic materials.
- glass

**7.3 Specific end use(s)**

- Contact your supplier for additional information

**SECTION 8: Exposure controls/personal protection**

Introductory Remarks: These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

**8.1 Control parameters**

- Contains no substances with occupational exposure limit values.

**Threshold limit values of by-products from thermal decomposition:****Components with workplace occupational exposure limits**

Components	Value type	Value	Basis
Hydrofluoric acid	TWA	0.5 ppm	American Conference of Governmental Industrial Hygienists
			Danger of cutaneous absorption Expressed as :Fluorine
Hydrofluoric acid	C	2 ppm	American Conference of Governmental Industrial Hygienists
			Danger of cutaneous absorption Expressed as :Fluorine
Hydrofluoric acid	C	6 ppm 5 mg/m3	National Institute for Occupational Safety and Health
Hydrofluoric acid	TWA	3 ppm 2.5 mg/m3	National Institute for Occupational Safety and Health
Hydrofluoric acid			Occupational Safety and Health Administration - Table Z-1 Limits for Air Contaminants
			Expressed as :Fluorine
Hydrofluoric acid	TWA	3 ppm	Occupational Safety and Health Administration - Table Z-2
Carbonic difluoride	TWA	2 ppm	American Conference of Governmental Industrial Hygienists

## FOMBLIN® DA 305

Revision Date 07/24/2022

Carbonic difluoride	STEL	5 ppm	American Conference of Governmental Industrial Hygienists
Carbonic difluoride	TWA	2 ppm 5 mg/m <sup>3</sup>	National Institute for Occupational Safety and Health
Carbonic difluoride	ST	5 ppm 15 mg/m <sup>3</sup>	National Institute for Occupational Safety and Health

**8.2 Exposure controls****Control measures****Engineering measures**

- Provide local ventilation appropriate to the product decomposition risk (see section 10).
- Refer to protective measures listed in sections 7 and 8.
- Apply technical measures to comply with the occupational exposure limits.
- For additional information, consult the current edition of The Guide to the Safe Handling of Fluoropolymers published by the Society of Plastics Industry, Inc. (SPI) Fluoropolymer Division.

**Individual protection measures****Respiratory protection**

- Use respirator when performing operations involving potential exposure to vapor of the product.
- In case of decomposition (see section 10), use an air breathing apparatus with face mask.
- Use only respiratory protection that conforms to international/ national standards.
- When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations.
- Comply with OSHA respiratory protection requirements.

**Hand protection**

- Wear protective gloves.
- Protective gloves - impervious chemical resistant:

***Suitable material***

- Nitrile rubber
- PVC
- Neoprene gloves
- butyl-rubber

- Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

**Eye protection**

- Safety glasses with side-shields
- If splashes are likely to occur, wear:
- Tightly fitting safety goggles

**Skin and body protection**

- Wear work overall and safety shoes.
- If splashes are likely to occur, wear:
- Chemical resistant apron

**Hygiene measures**

- Ensure that eyewash stations and safety showers are close to the workstation location.
- When using do not eat, drink or smoke.
- Wash hands before breaks and at the end of workday.
- Take off contaminated clothing and wash before reuse.
- Handle in accordance with good industrial hygiene and safety practice.

**SECTION 9: Physical and chemical properties**

Physical and Chemical properties here represent typical properties of this product. Contact the business area using the Product

P00000019833

Version : 3.02 / US ( Z8 )

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information phone number in Section 1 for its exact specifications.

### 9.1 Information on basic physical and chemical properties

<b><u>Physical state</u></b>	liquid
<b><u>Color</u></b>	light yellow
<b><u>Odor</u></b>	odorless
<b><u>Odor Threshold</u></b>	No data available
<b><u>Melting point/freezing point</u></b>	<u>Melting point/range:</u> Not applicable
<b><u>Initial boiling point and boiling range</u></b>	<u>Boiling point/boiling range:</u> Not applicable
<b><u>Flammability (solid, gas)</u></b>	No data available
<b><u>Flammability (liquids)</u></b>	The product is not flammable.
<b><u>Flammability / Explosive limit</u></b>	No data available
<b><u>Flash point</u></b>	The product is not flammable.
<b><u>Autoignition temperature</u></b>	No data available
<b><u>Decomposition temperature</u></b>	> 482 °F (> 250 °C)
<b><u>pH</u></b>	No data available
<b><u>Viscosity</u></b>	<u>Viscosity, kinematic</u> : 900 mm <sup>2</sup> /s ( 68 °F (20 °C))
<b><u>Solubility</u></b>	<u>Water solubility:</u> practically insoluble  <u>Solubility in other solvents:</u> Fluorinated solvents: soluble
<b><u>Partition coefficient: n-octanol/water</u></b>	No data available
<b><u>Vapor pressure</u></b>	0.0000008 mmHg (0.000001 hPa) ( 68 °F (20 °C))
<b><u>Density</u></b>	1.9 g/cm <sup>3</sup> ( 68 °F (20 °C))
<b><u>Relative density</u></b>	No data available
<b><u>Relative vapor density</u></b>	No data available
<b><u>Particle characteristics</u></b>	No data available
<b><u>Evaporation rate (Butylacetate = 1)</u></b>	No data available

### 9.2 Other information

<b><u>Oxidizing properties</u></b>	Not considered as oxidizing.
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<b><u>Impact sensitivity</u></b>	Not explosive
<b><u>Molecular weight</u></b>	3,800 Da Polymer Molar Mass

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

- Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

- No dangerous reaction known under conditions of normal use.

### 10.4 Conditions to avoid

- To avoid thermal decomposition, do not overheat.
- Keep away from flames and sparks.

### 10.5 Incompatible materials

- Lewis acids (Friedel-Crafts) above 100°C
- Aluminum and magnesium in powder form above 100°C

### 10.6 Hazardous decomposition products

- Gaseous hydrogen fluoride (HF).
- Fluorophosgene
- The release of other hazardous decomposition products is possible.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### **Acute toxicity**

<b>Acute oral toxicity</b>	No data available
<b>Acute inhalation toxicity</b>	No data available

<b>Acute dermal toxicity</b>	No data available
<b>Acute toxicity (other routes of administration)</b>	No data available

<b><u>Skin corrosion/irritation</u></b>	No data available
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<b><u>Serious eye damage/eye irritation</u></b>	No data available
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<b><u>Respiratory or skin sensitization</u></b>	No data available
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#### **Mutagenicity**

<b>Genotoxicity in vitro</b>	No data available
<b>Genotoxicity in vivo</b>	No data available
<b><u>Carcinogenicity</u></b>	No data available

This product does not contain any ingredient designated as probable or suspected human carcinogens by:

NTP  
IARC



OSHA

**Toxicity for reproduction and development**

<b>Toxicity to reproduction / fertility</b>	No data available
<b>Developmental Toxicity/Teratogenicity</b>	No data available
<b><u>STOT</u></b>	
<b>STOT-single exposure</b>	No data available
<b>STOT-repeated exposure</b>	No data available
<b><u>Experience with human exposure</u></b>	No data available
<b><u>Aspiration toxicity</u></b>	No data available
<b><u>Further information</u></b>	Description of possible hazardous to health effects is based on experience and/or toxicological characteristics of several ingredients. Thermal decomposition can lead to release of toxic and corrosive gases. The exposure to decomposition products causes severe irritation of eyes, skin and mucous membranes.

**SECTION 12: Ecological information****12.1 Toxicity****Aquatic Compartment**

<b>Acute toxicity to fish</b>	No data available
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<b>Acute toxicity to daphnia and other aquatic invertebrates</b>	No data available
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<b>Toxicity to aquatic plants</b>	No data available
<b>Toxicity to microorganisms</b>	No data available

<b>Chronic toxicity to fish</b>	No data available
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<b>Chronic toxicity to daphnia and other aquatic invertebrates</b>	No data available
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**12.2 Persistence and degradability**

<b><u>Abiotic degradation</u></b>	No data available
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<b><u>Physical- and photo-chemical elimination</u></b>	No data available
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<b><u>Biodegradation</u></b>	No data available
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**12.3 Bioaccumulative potential**

<b>Partition coefficient: n-octanol/water</b>	No data available
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<b>Bioconcentration factor (BCF)</b>	No data available
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**12.4 Mobility in soil**

<b>Adsorption potential (Koc)</b>	No data available
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<b>Known distribution to environmental compartments</b>	No data available
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**12.5 Results of PBT and vPvB assessment** No data available

**12.6 Other adverse effects** No data available

**Remarks** Ecological injuries are not known or expected under normal use.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

##### Product Disposal

- Do not dump into any sewers, on the ground, or into any body of water. All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations.
- Waste characterizations and compliance with applicable laws and regulations are the responsibility of the waste generator.
- Can be incinerated, when in compliance with local regulations.
- The incinerator must be equipped with a system for the neutralization or recovery of HF.

##### Advice on cleaning and disposal of packaging

- Empty containers can be landfilled, when in accordance with the local regulations.

### SECTION 14: Transport information

#### 49 CFR

not regulated

#### TDG

not regulated

#### NOM

not regulated

#### IMDG

not regulated

#### IATA

not regulated

Note: The above regulatory prescriptions are those valid on the date of publication of this sheet. Given the possible evolution of transportation regulations for hazardous materials, it would be advisable to check their validity with your sales office.

### SECTION 15: Regulatory information

#### 15.1 Notification status

Inventory Information	Status
United States TSCA Inventory	- Listed as active on the TSCA inventory.
Canadian Domestic Substances List (DSL)	- One or more components not listed on inventory
Canadian Non-Domestic Substances List (NDSL)	- One or more components not listed on inventory

P00000019833

Version : 3.02 / US ( Z8 )

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Australia Inventory of Chemical Substances (AICS)	- One or more components not listed on inventory
Korea. Korean Existing Chemicals Inventory (KECI)	- Listed on Inventory
China. Inventory of Existing Chemical Substances in China (IECSC)	- Listed on Inventory
Japan. ISHL - Inventory of Chemical Substances	- Listed on Inventory
Japan. CSCL - Inventory of Existing and New Chemical Substances	- Small Quantity Exemption (SQE) - This substance/mixture can only be imported by Solvay. Contact Solvay for further details.
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	- One or more components not listed on inventory
New Zealand. Inventory of Chemical Substances	- One or more components not listed on inventory
Taiwan. Chemical Substance Inventory (TCSI)	- Listed on Inventory
EU. European Registration, Evaluation, Authorization and Restriction of Chemical (REACH)	- If product is purchased from Solvay in Europe it is in compliance with REACH, if not please contact the supplier.

## 15.2 Federal Regulations

### US. EPA EPCRA SARA Title III

#### **SARA HAZARD DESIGNATION SECTIONS 311/312 (40 CFR 370)**

No SARA Hazards

#### **Section 313 Toxic Chemicals (40 CFR 372.65)**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### **Section 302 Emergency Planning Extremely Hazardous Substance Threshold Planning Quantity (40 CFR 355)**

This material does not contain any components with a section 302 EHS TPQ.

#### **Section 302 Emergency Planning Extremely Hazardous Substance Reportable Quantity (40 CFR 355)**

This material does not contain any components with a SARA 302 RQ.

#### **Section 304 Emergency Release Notification Reportable Quantity (40 CFR 355)**

This material does not contain any components with a section 304 EHS RQ.

### US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4)

This material does not contain any components with a CERCLA RQ.

## 15.3 State Regulations

- no data available

**SECTION 16: Other information****Further information**

- Product evaluated under the US GHS format.

**Date Prepared:** 07/24/2022

**Key or legend to abbreviations and acronyms used in the safety data sheet**

- C: Ceiling limit
- PEL: Permissible exposure limit
- ST: STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
- STEL: Short term exposure limit
- TWA: 8-hour, time-weighted average
- ACGIH: American Conference of Governmental Industrial Hygienists
- OSHA: Occupational Safety and Health Administration
- NTP: National Toxicology Program
- IARC: International Agency for Research on Cancer
- NIOSH: National Institute for Occupational Safety and Health
- ADR: European Agreement on International Carriage of Dangerous Goods by Road.
- ADN: European Agreement on the International Carriage of Dangerous Goods by Inland Waterways.
- RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
- IATA: International Air Transport Association.
- ICAO-TI: Technical Specification for Safe Transport of Dangerous Goods by Air.
- IMDG: International Maritime Dangerous Goods.
- TWA: Time weighted average
- ATE: Estimated value of acute toxicity
- EC: European Community number
- CAS: Chemical Abstracts Service.
- LD50: Substance that causes 50% (half) death in the test animals group (Median Fatal Dose).
- LC50: Substance concentration causing 50% (half) death in the test animals group.
- EC50: Effective Concentration of the substance causing the maximum of 50%.
- PBT: Persistent, Bioaccumulative and Toxic substance.
- vPvB: Very Persistent and Very Bioaccumulative.
- SEA: Classification, labeling, packaging regulation
- DNEL: Derived No Effect Level
- PNEC: Predicted No Effect Concentration
- STOT: Specific Target Organ Toxicity

**Not all acronyms listed above are referenced in this SDS.**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. Such information is only given as a guidance to help the user handle, use, process, store, transport, dispose, and release the product in satisfactory safety conditions and is not to be considered as a warranty or quality specification. It should be used in conjunction with technical sheets but do not replace them. Thus, the information only relates to the designated specific product and may not be applicable if such product is used in combination with other materials or in any other manufacturing process, unless otherwise specifically indicated. It does not release the user from ensuring he is in conformity with all regulations linked to its activity.