

# SAFETY DATA SHEET



## PE671

Version 5.0  
Document no. 130000143121

Revision Date 2023/05/24  
Issue Date 2023/07/14

This SDS adheres to the standards and regulatory requirements of China and may not meet the regulatory requirements in other countries.

### Section 1 - Chemical and Enterprise Identification

**Product name** : PE671

**Product name in English** : PE671

**Other names** : PE671 INTEXAR™

**Recommended use of the chemical and restriction on use**

**Recommended use** : For industrial use only.  
Paste for electronic industry

**Restrictions on use** : Do not use product for anything outside of the above specified uses.

**Manufacturer, importer, supplier**

**Company** : Celanese (Shanghai) International Trading Co., Ltd  
**Street address** : 4560 Jinke Road, Zhangjiang, Pudong Shanghai, China 201210

**E-mail address** : HazCom@celanese.com

**Emergency telephone number** : CHEMTREC International: +1-703-527 3887, +86 532 8388-9090 (China, 24h)

**Date of first preparation** : 2015/11/30

### Section 2 - Hazard Identification

**GHS Hazard Category**

**Flammable liquids** : Category 4  
Endpoints which are not classified, cannot be classified or are not applicable are not shown.

**Label content**

**Pictogram** : not required

**Signal word** : Warning

**Hazardous warnings** : Combustible liquid.

**Precautionary statements** : **Preventive Measures:**  
Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.  
Wear protective gloves/ eye protection/ face protection.  
**Accident Response:**  
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.  
**Safe Storage:**  
Store in a well-ventilated place. Keep cool.  
**Waste Disposal:**  
Dispose of contents/ container to an approved waste disposal plant.

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**Main Symptom After Contact**  
No information available.

### Section 3 - Ingredients/Composition Information

**Chemical nature** : Mixture

#### Components

Chemical name	CAS-No.	Concentration
(2-Methoxymethylethoxy)propanol	34590-94-8	60 - 70%
Hexanedioic acid, polymer with 1,3-diisocyanatomethylbenzene and 1,6-hexanediol	9068-96-6	10 - 20%
Graphite	7782-42-5	10 - 20%

### Section 4 - First-aid Measures

- Inhalation** : If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.
- Skin contact** : Wash off with soap and water. Get medical attention if irritation develops and persists. Wash contaminated clothing before re-use.
- Eye contact** : Immediately flush eyes for at least 15 minutes. Get medical attention.
- Ingestion** : If swallowed Rinse mouth with water. Call a physician or poison control centre immediately. DO NOT induce vomiting unless directed to do so by a physician or poison control center.
- Most important symptoms/effects, acute and delayed** : No information available.
- Protection of first-aiders** : No information available.
- Notes to physician** : No information available.

### Section 5 - Fire-fighting Measures

- Suitable extinguishing media** : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Water spray, Dry chemical, Carbon dioxide (CO<sub>2</sub>)
- Unsuitable extinguishing media** : No information available.
- Specific hazards** : Hazardous decomposition products formed under fire conditions. (see also section 10) Avoid breathing decomposition products.

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| <b>Special protective equipment for firefighters</b> | : Exposure to decomposition products may be a hazard to health. Wear self-contained breathing apparatus for firefighting if necessary.                                |
| <b>Specific extinguishing methods</b>                | : No information available.   |
| <b>Further information</b>                           | : Evacuate personnel to safe areas. Stop spill/release if it can be done with minimal risk. Do not allow run-off from fire fighting to enter drains or water courses. |

### Section 6 - Leak Emergency Treatment

- |   |   |
|---|---|
| <b>Protective measures, devices and emergency treatment procedure for workers</b> | : Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Wear suitable protective equipment.  |
| <b>Environmental precautions</b>  | : Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Clean contaminated floors and objects thoroughly while observing environmental regulations.   |
| <b>Methods and materials for containment and cleaning up</b>                      | : Contain spill. Soak up with inert absorbent material. Collect and contain contaminated absorbent and dike material for disposal. Keep in suitable, closed containers for disposal. Ventilate the area. Clean contaminated surface thoroughly. |
| <b>Prevention of secondary hazards</b>  | : No information available.   |
| <b>Additional advice</b>  | : Dispose of in accordance with local regulations.  |

### Section 7 - Operation Handling and Storage

#### Operation Handling

- |                                |   |
|--------------------------------|---|
| Technical measures/Precautions | : Avoid inhalation, ingestion and contact with skin and eyes. Do not use in areas without adequate ventilation. Keep container closed when not in use. Take care to avoid waste and spillage when weighing, loading and mixing the product. |
| Precautions for safe handling  | : Avoid formation of dust and aerosols. Keep away from heat and sources of ignition.  |

#### Storage

- |                             |  |
|-----------------------------|--|
| Suitable storage conditions | : Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from sources of ignition - No smoking. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material. Keep container closed when not in use. Do not reuse empty container. |
|-----------------------------|--|

Storage period: Stable under normal conditions.

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**Section 8 - Exposure Control and Personal Protection****Control parameters**

Applicable occupational exposure limits are listed below.

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(2-Methoxymethylethoxy)propanol		
PC-TWA	600 mg/m3	CN OEL (2019-08-27)
PC-STEEL	900 mg/m3	CN OEL (2019-08-27)
TWA	100 ppm  Danger of cutaneous absorption	ACGIH (2020-02-01)
STEEL	150 ppm  Danger of cutaneous absorption	ACGIH (2020-02-01)
Graphite		
PC-TWA	4 mg/m3 (Total dust)	CN OEL (2019-08-27)
PC-TWA	2 mg/m3 (Respirable dust)	CN OEL (2019-08-27)
TWA	2 mg/m3 (Respirable particulate matter)	ACGIH (2007-01-01)

**Biological occupational exposure limits**

No biological exposure limit values are applicable.

**Engineering controls** : Local exhaust or a laboratory hood should be used when handling the materials. Maintain air concentrations below occupational exposure standards.

**Personal protective equipment**

**Respiratory protection** : Provide adequate ventilation. No personal respiratory protective equipment normally required. Where there is potential for airborne exposures in excess of applicable limits, wear approved respiratory protection with dust/mist cartridge. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer.  
Persons performing maintenance or repairs on exhaust system equipment (e.g. ducts) may need to use respirators and protective clothing to prevent exposure to any accumulated residues.

**Hand protection** : Material: Impervious gloves  
Gloves must be inspected prior to use., Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough., The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other., The exact break through time can be obtained from the protective glove producer and this has to be observed., Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

**Eye protection** : Wear safety glasses with side shields.

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**Skin protection** : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.  
Lightweight protective clothing  
Safety shoes

**Hygiene measures** : Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Contaminated work clothing should not be allowed out of the workplace. Remove contaminated clothing and protective equipment before entering eating areas. Remove and wash contaminated clothing before re-use.

**Section 9 - Physical and Chemical Properties****Appearance (Physical state, form, colour, etc.)**

Physical state : liquid  
Form : viscous liquid  
Colour : black

**Odour** : slight

**Odour Threshold** : No information available.

**pH** : No information available.

**Melting point/freezing point**

No information available.

**Boiling point, initial boiling point and boiling range**

No information available.

**Flash point** : 90.5 °C  
Method: closed cup

**Evaporation rate** : No information available.

**Flammability** : No information available.

**Upper/lower flammability or explosive limits**

Upper explosion limit : No information available.  
Lower explosion limit : No information available.

**Vapour pressure** : No information available.

**Vapour density** : No information available.

**Density**

Density : 1.01 g/cm<sup>3</sup>

**Solubility(ies)**

Water solubility : insoluble

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### Particle characteristics

Assessment : No information available.

### Partition coefficient: n-octanol/water

: No information available.

### Auto-ignition temperature

No information available.

### Decomposition temperature

: No information available.

### Viscosity

Viscosity, kinematic : > 20.5 mm<sup>2</sup>/s (40 °C)  
estimated

### Molecular weight

: No information available.

### Oxidizing properties

: No information available.

## Section 10 - Stability and Reactivity

**Reactivity** : No information available.

**Chemical stability** : Stable at normal temperatures and storage conditions.

**Possibility of hazardous reactions** : Polymerization will not occur.

**Conditions to avoid** : None reasonably foreseeable.

**Materials to avoid** : Acids, bases and strong oxidizing agents

**Hazardous decomposition products** : No decomposition if stored and applied as directed.

Under fire conditions:

Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), dense black smoke., Isocyanates, Isocyanic Acid, Other hazardous decomposition products may be formed.

## Section 11 - Toxicological Information

### Acute toxicity

#### Oral

(2-Methoxymethylethoxy)propanol : LD50/Rat: > 5,000 mg/kg  
Method: OECD Test Guideline 401  
The substance or mixture has no acute oral toxicity

Hexanedioic acid, polymer with : no data available

1,3-diisocyanatomethylbenzene  
and 1,6-hexanediol

Graphite : LD50/Rat: > 2,000 mg/kg  
Method: OECD Test Guideline 423

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Inhalation		The substance or mixture has no acute oral toxicity
(2-Methoxymethylethoxy)propanol	:	The substance or mixture has no acute inhalation toxicity An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.
Hexanedioic acid, polymer with 1,3-diisocyanatomethylbenzene and 1,6-hexanediol	:	no data available
Graphite	:	LC50/4 h/Rat(dust/mist): > 2 mg/l Method: OECD Test Guideline 403 The substance or mixture has no acute inhalation toxicity An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.
Dermal		
(2-Methoxymethylethoxy)propanol	:	LD50/Rabbit: 9,510 mg/kg Method: OECD Test Guideline 402 The substance or mixture has no acute dermal toxicity Skin effects
Hexanedioic acid, polymer with 1,3-diisocyanatomethylbenzene and 1,6-hexanediol	:	no data available
Graphite	:	no data available
Skin corrosion/irritation		
(2-Methoxymethylethoxy)propanol	:	Species: Rabbit Result: No skin irritation Classification: No skin irritation Method: OECD Test Guideline 404
Graphite	:	Species: Rabbit Result: No skin irritation Classification: No skin irritation Method: OECD Test Guideline 404
Serious eye damage/eye irritation		
(2-Methoxymethylethoxy)propanol	:	Species: human Result: Slight or no eye irritation Classification: No eye irritation Minimal effects that do not meet the threshold for classification.
Graphite	:	Species: Rabbit Result: Slight or no eye irritation Classification: No eye irritation Method: OECD Test Guideline 405 Minimal effects that do not meet the threshold for classification.
Respiratory or skin sensitisation		
(2-Methoxymethylethoxy)propanol	:	Species: human Result: Does not cause skin sensitisation. Classification: Does not cause skin sensitisation.
Graphite	:	Species: Mouse Result: Does not cause skin sensitisation. Classification: Does not cause skin sensitisation. Method: OECD Test Guideline 429

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**Germ cell mutagenicity**

- (2-Methoxymethylethoxy)propanol : Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Animal testing did not show any mutagenic effects.
- Hexanedioic acid, polymer with 1,3-diisocyanatomethylbenzene and 1,6-hexanediol : no data available
- Graphite : In vitro tests did not show mutagenic effects Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

**Carcinogenicity**

- (2-Methoxymethylethoxy)propanol : Animal testing did not show any carcinogenic effects. Information given is based on data obtained from similar substances.
- Hexanedioic acid, polymer with 1,3-diisocyanatomethylbenzene and 1,6-hexanediol : no data available

**Reproductive toxicity**

- (2-Methoxymethylethoxy)propanol : Reproductive toxicity: No toxicity to reproduction  
Animal testing showed no reproductive toxicity.  
No effects on or via lactation  
Information given is based on data obtained from similar substances.  
Teratogenicity: Animal testing showed no developmental toxicity.
- Hexanedioic acid, polymer with 1,3-diisocyanatomethylbenzene and 1,6-hexanediol : Reproductive toxicity: no data available  
Teratogenicity: no data available
- Graphite : Reproductive toxicity: No toxicity to reproduction  
Animal testing showed no reproductive toxicity.  
Teratogenicity: Animal testing showed no developmental toxicity.

**Specific Target Organ Toxicity**

## Specific target organ toxicity - single exposure

- (2-Methoxymethylethoxy)propanol : The substance or mixture is not classified as specific target organ toxicant, single exposure.
- Graphite : The substance or mixture is not classified as specific target organ toxicant, single exposure.

## Specific target organ toxicity - repeated exposure

- (2-Methoxymethylethoxy)propanol : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
- Graphite : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**Aspiration hazard**

- (2-Methoxymethylethoxy)propanol : No aspiration toxicity classification
- Hexanedioic acid, polymer with 1,3-diisocyanatomethylbenzene and 1,6-hexanediol : No aspiration toxicity classification
- Graphite : No aspiration toxicity classification



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**Other**

(2-Methoxymethylethoxy)propanol : Repeated dose toxicity:  
 Ingestion/Rat 28 d  
 NOAEL: 1,000 mg/kg  
 No toxicologically significant effects were found.  
 Inhalation/Rat 90 d vapour  
 Method: OECD Test Guideline 413  
 No toxicologically significant effects were found.  
 Skin contact/Rabbit 90 d  
 NOAEL: 2,850 mg/kg  
 Method: OECD Test Guideline 411  
 No toxicologically significant effects were found.

Graphite : Repeated dose toxicity:  
 Inhalation/Rat 28 d dust/mist  
 NOAEL: 0.008 mg/l  
 Method: OECD Test Guideline 412  
 No toxicologically significant effects were found.  
 Ingestion/Rat 28 d  
 NOAEL: 813 mg/kg  
 Method: OECD Test Guideline 422  
 No toxicologically significant effects were found.

**Section 12 - Ecological Information****Ecotoxicity effects**

Acute and prolonged toxicity to fish

(2-Methoxymethylethoxy)propanol : LC50/96 h/Poecilia reticulata (guppy): > 1,000 mg/l  
 Method: OECD Test Guideline 203

Graphite : LC50/96 h/Danio rerio (zebra fish): > 100 mg/l  
 Method: OECD Test Guideline 203  
 No acute toxicity effects at concentrations up to the limit of aqueous solubility

Toxicity to aquatic plants

(2-Methoxymethylethoxy)propanol : EC50/96 h/Pseudokirchneriella subcapitata (green algae): > 969 mg/l  
 Method: OECD Test Guideline 201  
 NOEC/96 h/Pseudokirchneriella subcapitata (green algae): 969 mg/l  
 Method: OECD Test Guideline 201

Graphite : EC50/72 h/Algae: > 100 mg/l  
 Method: OECD Test Guideline 201  
 NOEC/72 h/Algae: >= 100 mg/l  
 Method: OECD Test Guideline 201

Acute toxicity to aquatic invertebrates

(2-Methoxymethylethoxy)propanol : EC50/48 h/Daphnia magna (Water flea)  
 Method: OECD Test Guideline 202  
 Aquatic toxicity is unlikely due to low solubility.

Graphite : EC50/48 h/Daphnia magna (Water flea): > 100 mg/l  
 Method: OECD Test Guideline 202  
 No acute toxicity effects at concentrations up to the limit of aqueous solubility

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solubility

### Persistence and degradability

(2-Methoxymethylethoxy)propanol : Result: Biodegradable  
Readily biodegradable.  
Graphite : Result: Not biodegradable  
Not applicable

### Bioaccumulation

Graphite : Not applicable

### Mobility in soil

No information available.

### Other adverse effects

No information available.

## Section 13 - Waste Disposal

**Waste disposal methods** : If recycling is not practicable, dispose of in compliance with local regulations. Never place unused product down any indoor or out door drain. Do not reuse empty container. Contaminated/not cleaned containers should be treated/handled like product waste. Dispose of container properly. Refer to applicable Local, State/Provincial, and Federal Regulations, as well as industry Standards.

**Contaminated packaging** : Dispose of in accordance with local regulations.

## Section 14 - Transport Information

Not classified as dangerous in the meaning of transport regulations.

### China Dangerous Goods Regulation

UN number : Not applicable  
Proper shipping name : Not applicable  
Class : Not applicable  
Packing group : Not applicable

### IMDG

UN number : Not applicable  
UN proper shipping name : Not applicable  
Transport hazard class : Not applicable  
Packing group : Not applicable  
Marine pollutant : Not applicable

### IATA

UN number : Not applicable  
UN proper shipping name : Not applicable  
Transport hazard class : Not applicable  
Packing group : Not applicable

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Matters needing attention : Not applicable  
for transportation

### Section 15 - Regulatory Information

Regulation on the Safety Management of Hazardous Chemicals  
Production Safety Law of the People's Republic of China  
Law of the People's Republic of China on Prevention and Treatment of Occupational Disease  
Environmental Protection Law of the People's Republic of China  
Law of the People's Republic of China on the Prevention and Control of Atmospheric Pollution  
Marine Environment Protection Law of the People's Republic of China  
Fire Protection Law of the People's Republic of China  
Law of the People's Republic of China on the Prevention and Control of Environmental Pollution by Solid Wastes  
Occupational exposure limits for hazardous agents in the workplace Part 1 Chemical hazardous agents (GBZ2.1)  
Occupational exposure limits for hazardous agents in the workplace Part 2 Physical agents (GBZ2.2)

### Section 16 - Other Information

#### References

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Significant change from previous version is denoted with a double bar.

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