PE672

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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 : PE672

Product name in English : PE672

Other names : PE672 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
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Date of first preparation : 2019/06/20

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.

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%
Carbon black	1333-86-4	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 (CO2)

Specific hazards : Hazardous decomposition products formed under fire conditions. (see also section 10) Avoid breathing decomposition products.

Special protective equipment for firefighters : Exposure to decomposition products may be a hazard to health. Wear self-contained breathing apparatus for firefighting if necessary.

Specific extinguishing methods : No information available.

Further information : 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

Protective measures, devices and emergency treatment procedure for workers : Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Wear suitable protective equipment.

Environmental precautions : 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.

Methods and materials for containment and cleaning up : 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.

Prevention of secondary hazards : No information available.

Additional advice : 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.

Section 8 - Exposure Control and Personal Protection

Control parameters

Applicable occupational exposure limits are listed below.

(2-Methoxymethylethoxy)propanol

PC-TWA	600 mg/m3	GBZ 2.1-2007 (2002-04-08)
PC-STEL	900 mg/m3	GBZ 2.1-2007 (2002-04-08)
TWA	100 ppm	ACGIH (2013-03-01)
STEL	150 ppm	ACGIH (2013-03-01)
Carbon black		
PC-TWA	4 mg/m3 (Total dust)	GBZ 2.1-2007 (2007-04-27)
TWA	3 mg/m3 (Inhalable fraction)	ACGIH (2013-03-01)

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

Biological occupational exposure limits : No information available.

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.

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 (solid, gas) : 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/cm3

Solubility(ies)
Water solubility : insoluble

Partition coefficient: n-octanol/water : No information available.

Auto-ignition temperature
No information available.

Decomposition temperature : No information available.

Viscosity
Viscosity, kinematic : No information available.

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 (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), 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 1,3-diisocyanatomethylbenzene and 1,6-hexanediol	:	Toxic effects cannot be excluded
Carbon black	:	LD50/Rat: > 8,000 mg/kg Method: OECD Test Guideline 401

Inhalation

(2-Methoxymethylethoxy)propanol	:	LC50/4 h/Rat(vapour) 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.
Hexanedioic acid, polymer with 1,3-diisocyanatomethylbenzene and 1,6-hexanediol	:	Toxic effects cannot be excluded
Carbon black	:	Toxic effects cannot be excluded

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	:	Toxic effects cannot be excluded

Carbon black	:	Toxic effects cannot be excluded

Skin corrosion/irritation

(2-Methoxymethylethoxy)propanol	:	Species: Rabbit Result: No skin irritation Classification: No skin irritation Method: OECD Test Guideline 404
Carbon black	:	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.
Carbon black	:	Species: Rabbit Result: No eye irritation Classification: No eye irritation Method: OECD Test Guideline 405

Respiratory or skin sensitisation

(2-Methoxymethylethoxy)propanol	:	Species: human Result: Does not cause skin sensitisation. Classification: Does not cause skin sensitisation.
Carbon black	:	Species: Guinea pig Result: Does not cause skin sensitisation. Classification: Does not cause skin sensitisation. Method: OECD Test Guideline 406 Species: Mouse Result: Does not cause respiratory sensitisation. Classification: Does not cause respiratory sensitisation.

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
Carbon black	:	Animal testing did not show any 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
Carbon black	:	Not classifiable as a human carcinogen. Overall weight of evidence indicates that the substance is not carcinogenic.

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
Carbon black	:	Reproductive toxicity: No toxicity to reproduction Animal testing showed no reproductive toxicity. Information given is based on data obtained from similar substances. Teratogenicity: Animal testing showed no developmental toxicity. Information given is based on data obtained from similar substances.

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.

Specific target organ toxicity - repeated exposure

(2-Methoxymethylethoxy)propanol	:	The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Carbon black	:	Likely route of exposure: Inhalation 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
Carbon black	:	No aspiration toxicity classification

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.
Carbon black	:	Repeated dose toxicity:

Inhalation/multiple species 13 Weeks dust/mist
NOAEL: > 0.05 mg/l
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
Carbon black	:	LC50/96 h/Danio rerio (zebra fish): > 1,000 mg/l Method: OECD Test Guideline 203

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
Carbon black	:	ErC50/72 h/Desmodesmus subspicatus (green algae): > 10,000 mg/l Method: OECD Test Guideline 201 NOEC/72 h/Desmodesmus subspicatus (green algae): > 10,000 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.

Persistence and degradability

(2-Methoxymethylethoxy)propanol	:	Result: Biodegradable Readily biodegradable.
Carbon black	:	Result: Not biodegradable

Bioaccumulation

Carbon black	:	Does not bioaccumulate.

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

Matters needing attention for transportation : Not applicable

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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