

## NACOL® Ether 6

### SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

<b>Trade name</b>	NACOL® Ether 6	
<b>Synonyms</b>	Di-n-hexyl Ether	
<b>Use</b>	Industrial use, Anti-foaming agent	
<b>Company</b>	Sasol Chemicals (USA) LLC (an affiliate of Sasol Chemicals North America LLC)	
<b>Address</b>	12120 Wickchester Lane Houston TX 77079	
<b>Telephone</b>	CHEMTREC North America Transportation Emergency (24-hr)	(800) 424-9300
	CHEMTREC World Wide	(703) 527-3887
	Other Emergencies (24-hr)	(337) 494-5142
	SDS and Product Information (8:00am-4:30pm CST)	(281) 588-3491
	Health and Safety Information (7:30am-4:00pm CST)	(281) 588-3492
<b>E-mail address</b>	SasolElectronicSDS@us.sasol.com	

### SECTION 2 HAZARDS IDENTIFICATION

<b>OSHA/GHS Hazards</b>	Acute aquatic toxicity	Category 1
	Chronic aquatic toxicity	Category 2

#### LABEL ELEMENTS

##### Hazard symbols



**Signal word** Warning

**Hazard statements** H400 Very toxic to aquatic life.  
H411 Toxic to aquatic life with long lasting effects.

#### Precautionary statements

**Prevention** P273 Avoid release to the environment.

**Response** P391 Collect spillage.

**Disposal** P501 Dispose of contents/ container to an approved waste disposal plant.

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**SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS**

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<u>Components</u>	<u>CAS-No.</u>	<u>Weight percent</u>
Dihexyl ether	112-58-3	100

See Section 8 for Exposure Guidelines and Section 15 for Regulatory Classifications.

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**SECTION 4 FIRST AID MEASURES**

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- Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- Skin contact** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.
- Inhalation** Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. In case of shortness of breath, give oxygen. Call a physician immediately.
- Ingestion** Do not induce vomiting without medical advice. Call a physician immediately. Never give anything by mouth to an unconscious person.

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**SECTION 5 FIREFIGHTING MEASURES**

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**FLAMMABLE PROPERTIES**

**Fire/explosion** Dangerous gases or fumes may occur in case of fire. NFPA Class IIIB combustible liquid.

**Suitable extinguishing media** Water spray, Foam, Dry chemical, Carbon dioxide (CO<sub>2</sub>)

**Protective equipment and precautions for firefighters** Wear self-contained breathing apparatus and protective suit.

**Further information** Keep containers and surroundings cool with water spray.

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**SECTION 6 ACCIDENTAL RELEASE MEASURES**

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**Methods and materials for containment and cleaning up** Remove all sources of ignition. Ensure adequate ventilation. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system.

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**SECTION 7 HANDLING AND STORAGE**

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**Safe handling advice** Normal measures for preventive fire protection.

**Storage/Transport pressure** Ambient

**Load/Unload temperature** Ambient

**SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**ENGINEERING MEASURES**

Ensure adequate ventilation, especially in confined areas.

**PERSONAL PROTECTIVE EQUIPMENT**

**Eyes** Wear as appropriate: Goggles, Face-shield

**Skin** Wear suitable protective clothing, gloves and eye/face protection.

**Inhalation** Respiratory protection is normally not required except in emergencies or when conditions cause excessive airborne levels of mists or vapors. Use NIOSH approved respiratory protection.

**EXPOSURE GUIDELINES**

Contains no substances with occupational exposure limit values.

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

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**Appearance** liquid;

**Colour** colourless

**Form** liquid

**Odour** characteristic

**Odour Threshold** No data available

**Flash point** 97 °C, 206 °F; ISO 2592;

**Flammability** Upper explosion limit: 25 %(V)

Lower explosion limit: 0.7 %(V)

**Boiling point/boiling range** 211 °C, 412 °F;

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<b>Melting point/range</b>	Pour point: -46 °C, -51 °F; ASTM D 97-66;
<b>Auto-ignition temperature</b>	188 °C, 370 °F;
<b>Decomposition temperature</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Vapour pressure</b>	0.02 hPa @ 20 °C, 68 °F;
<b>Vapour density</b>	No data available
<b>Density</b>	0.793 g/cm <sup>3</sup> @ 20 °C, 68 °F;
<b>Specific gravity</b>	No data available
<b>Water solubility</b>	0.39 mg/l @ 25 °C, 77 °F;
<b>Viscosity</b>	2.1 mm <sup>2</sup> /s @ 20 °C, 68 °F;
<b>Viscosity, dynamic</b>	1.7 mPa.s @ 20 °C, 68 °F; ASTM D 7042;
<b>pH</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Partition coefficient: n-octanol/water</b>	Pow: 6.08; @ 25 °C, 77 °F;

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**SECTION 10 STABILITY AND REACTIVITY**

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<b>Reactivity</b>	Stable at normal ambient temperature and pressure.
<b>Chemical stability</b>	No decomposition if stored and applied as directed.
<b>Conditions to avoid</b>	Direct heating, dirt, chemical contamination, sunlight, UV or ionising radiation.
<b>Hazardous decomposition products</b>	No decomposition if stored normally.
<b>Materials to avoid</b>	None known.
<b>Hazardous polymerisation</b>	None known.

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### SECTION 11 TOXICOLOGICAL INFORMATION

<b>Additional Remarks</b>	Information given is based on data obtained from similar substances. Test substance: Dioctyl ether
<b>Acute dermal toxicity</b>	LD50 Rat: > 2,000 mg/kg; OECD Test Guideline 402(literature value)
<b>Acute inhalation toxicity</b>	The study is not necessary., Negligible or unlikely exposure pathways
<b>Acute oral toxicity</b>	LD50 Rat: > 2,000 mg/kg; OECD Test Guideline 401 (literature value)
<b>Skin corrosion/irritation</b>	(human skin) slightly irritating, (literature value)
<b>Serious eye damage/eye irritation</b>	(Rabbit): OECD Test Guideline 405 slight irritation, (literature value)
<b>Respiratory or skin sensitisation</b>	Guinea pig: not sensitizing; Maximisation Test OECD Test Guideline 406, (literature value)
<b>Germ cell mutagenicity</b>	<b>Genotoxicity in vitro:</b> Result: In vitro tests did not show mutagenic effects (literature value)  <b>Genotoxicity in vivo:</b> No data available  <b>Assessment Mutagenicity:</b> Based on available data, the classification criteria are not met.
<b>Reproductive toxicity</b>	<b>Reproductive toxicity:</b> Repeated dose toxicity studies gave no indication of adverse effects on reproductive organs, No embryotoxic effects have been observed in animal tests.  <b>Assessment Reproductive toxicity:</b> Based on available data, the classification criteria are not met.  <b>Teratogenicity:</b> Rat; Oral; OECD Test Guideline 414 No adverse maternal or fetal effects were observed., (literature value)  <b>Assessment teratogenicity:</b> Based on available data, the classification criteria are not met.
<b>STOT - single exposure</b>	The substance or mixture is not classified as specific target organ toxicant, single exposure.

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**STOT - repeated exposure** Rat; . Oral; 90-day; OECD Test Guideline 408  
 NOAEL: 1,000 mg/kg (literature value)  
 The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**Aspiration toxicity** Not applicable

**Carcinogenicity** **Assessment carcinogenicity:**  
 Contains no ingredient listed as a carcinogen

## SECTION 12 ECOLOGICAL INFORMATION

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**Aquatic toxicity** Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

**Toxicity to fish** LC50 96 hours: > 0.1 - 1 mg/l  
 calculated

**Toxicity to aquatic invertebrates** EC50 (Daphnia magna (Water flea)) 48 hours: > 0.1 - 1 mg/l; semi-static test; OECD Test Guideline 202

**Toxicity to algae** ErC50 (Pseudokirchneriella subcapitata (green algae)) 72 hours: > 0.01 - 0.1 mg/l; OECD Test Guideline 201

ErC10 (Pseudokirchneriella subcapitata (green algae)) 72 hours: > 0.01 - 0.1 mg/l; OECD Test Guideline 201

**Chronic toxicity to fish** No data available

**Chronic toxicity to aquatic invertebrates** EC10 (Daphnia magna (Water flea)) 21 d: > 0.01 - 0.1 mg/l; semi-static test; OECD Test Guideline 211

**Biodegradation** Readily biodegradable.  
 OECD Test Guideline 301F (28 d): > 60 %

**Bioaccumulative potential** QSAR: BCF: 38;  
 Bioaccumulation is unlikely.

**Mobility in soil** Medium: Adsorption/Soil/Sewage sludge; QSAR  
 log Koc: 3.6  
 Slightly mobile in soils, The substance and its relevant degradation products decompose rapidly.

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**Other adverse effects** This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.;

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**SECTION 13 DISPOSAL CONSIDERATIONS**

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- Waste Code** Any unused product or empty containers may be disposed of as non-hazardous in accordance with state and federal requirements. Re-evaluation of the product may be required by the user at the time of disposal, since the product uses, transformations, mixtures, contamination, and spillage may change the classification. If the resulting material is determined to be hazardous, please dispose in accordance with state and federal (40 CFR 262) hazardous waste regulations.
- Disposal methods** Dispose of only in accordance with local, state, and federal regulations.
- Empty containers.** Empty containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, triple-rinsed, properly bunged and promptly returned to a drum reconditioner, or properly disposed.

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**SECTION 14 TRANSPORT INFORMATION**

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- DOT** UN 3082, Environmentally hazardous substance, liquid, n.o.s.(Dihexyl ether), 9, III , Marine pollutant  
This product is regulated as a hazardous material according to the Department of Transportation only in bulk quantities (greater than 119 gallons per package).
- IATA** UN 3082, Environmentally hazardous substance, liquid, n.o.s.(Dihexyl ether), 9, III  
This product is regulated as a dangerous good when shipped by air in all quantities according to IATA.
- IMDG** UN 3082, Environmentally hazardous substance, liquid, n.o.s., (Dihexyl ether), 9, III, Marine pollutant  
This product is regulated as a Marine Pollutant when shipped by water in all quantities according to the IMDG Code.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

**Remarks** No data available

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**SECTION 15 REGULATORY INFORMATION**

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## NACOL® Ether 6

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### U.S. FEDERAL REGULATIONS

#### TSCA Inventory Listing

##### Components

Hexane, 1,1'-oxybis

##### CAS-No.

112-58-3

#### SARA 302 Status

##### Components

##### CAS-No.

##### Weight percent

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### SARA 311/312 Classification

Non-hazardous substance

#### SARA 313 Chemical

##### Components

##### CAS-No.

##### Weight percent

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.

#### US. EPA CERCLA Hazardous Substances (40 CFR 302)

##### Components

none

##### Reportable Quantity

##### Weight percent

### INTERNATIONAL REGULATIONS

#### WHMIS Classification

Acute aquatic toxicity Category 1

Chronic aquatic toxicity Category 2

#### European Union

Classification according to Regulation (EU) 1272/2008.

Acute aquatic toxicity, Category 1

Chronic aquatic toxicity, Category 2

#### Australia. Inventory of Chemical Substances (AICS)

Listed

#### Japan. Inventory of Existing and New Chemical Substances (ENCS)

Listed

#### Japan. ISHL - Inventory of Chemical Substances

Listed

#### Canada. Domestic Substances List (DSL) Inventory

Listed

#### Canada. Non-Domestic Substance Listing (NDSL)

Not listed

#### Philippines. Inventory of Chemicals / Chemical Substances (PICCS)

Listed

#### Korea. Existing Chemicals Inventory (KECI)

Listed





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China. Inventory of Existing Chemical Substances (IECSC)	Not listed
Mexico	Listed
New Zealand. Inventory of Chemical Substances	Not listed
Switzerland	Listed
Taiwan. National Existing Chemical Inventory (NECI)	Listed

Please note: The names and CAS numbers which are used for this product in the stated inventories may deviate from the information which is listed in Section 3.

### STATE REGULATIONS

California Prop. 65

Components

none

CAS-No.

## SECTION 16 OTHER INFORMATION

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### HAZARD RATINGS

	<u>Health</u>	<u>Flammability</u>	<u>Physical Hazard/ Instability</u>
HMIS®	1	1	0
NFPA	1	1	0

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