

## ISOCARB® Ester 1605

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

<b>Trade name</b>	ISOCARB® Ester 1605		
<b>Synonyms</b>	Pentaerythritol Ester		
<b>Use</b>	High Tech Industrial Applications, Lubricants, Personal care		
<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
	MSDS 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

Not a hazardous substance or mixture according to OSHA HCS 2012.

### SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

<u>Components</u>	<u>CAS-No.</u>	<u>Weight percent</u>
Pentaerythritol tetra (2-hexyldecanoate)	60623-04-3	100

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

### SECTION 4 FIRST AID MEASURES

<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.
<b>Inhalation</b>	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.
<b>Ingestion</b>	If possible drink milk afterwards. Do not induce vomiting without medical advice. Call a physician or poison control centre immediately. Never give anything by mouth to an unconscious person.

### SECTION 5 FIREFIGHTING MEASURES

#### FLAMMABLE PROPERTIES

**Fire/explosion** May be ignited by open flame. NFPA Class IIIB combustible liquid.

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- 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** Cool closed containers exposed to fire 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. 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). Prevent further leakage or spillage if safe to do so.

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**SECTION 7 HANDLING AND STORAGE**

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- Safe handling advice** Take measures to prevent the build up of electrostatic charge.
- Storage/Transport pressure** Ambient
- Load/Unload temperature** Ambient

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**SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**ENGINEERING MEASURES**

Air contaminant levels should be controlled below the PEL or TLV for this product (see Exposure Guidelines). Ensure adequate ventilation, especially in confined areas.

**PERSONAL PROTECTIVE EQUIPMENT**

- Eyes** Chemical resistant goggles must be worn.
- Skin** Full protective clothing, chemical boots, and chemical gloves.
- 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.

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**SECTION 9            PHYSICAL AND CHEMICAL PROPERTIES**

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<b>Appearance</b>	liquid;
<b>Colour</b>	yellow
<b>Form</b>	liquid
<b>Odour</b>	characteristic
<b>Odour Threshold</b>	no data available
<b>Flash point</b>	ca. 312 °C, 594 °F; DIN 51758;
<b>Flammability</b>	Upper explosion limit: no data available Lower explosion limit: no data available
<b>Boiling point/boiling range</b>	215 - 223 °C, 419 - 433 °F;
<b>Melting point/range</b>	no data available
<b>Auto-ignition temperature</b>	no data available
<b>Decomposition temperature</b>	no data available
<b>Flammability (solid, gas)</b>	no data available
<b>Vapour pressure</b>	no data available
<b>Vapour density</b>	no data available
<b>Density</b>	0.91 g/cm <sup>3</sup> @ 20 °C, 68 °F; DIN 51757;
<b>Specific gravity</b>	no data available
<b>Water solubility</b>	insoluble
<b>Viscosity</b>	no data available
<b>Viscosity, dynamic</b>	ca. 187 mPa.s @ 20 °C, 68 °F;
<b>pH</b>	no data available
<b>Evaporation rate</b>	no data available
<b>Partition coefficient: n-octanol/water</b>	no data available

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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>	Keep away from heat and sources of ignition.
<b>Hazardous decomposition products</b>	Combustion products include carbon dioxide, carbon monoxide and possibly other unidentified organic compounds.
<b>Materials to avoid</b>	Keep away from oxidising agents and strongly acid or alkaline materials.
<b>Hazardous polymerisation</b>	None.

**SECTION 11 TOXICOLOGICAL INFORMATION**

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<b>Acute dermal toxicity</b>	no data available
<b>Acute inhalation toxicity</b>	no data available
<b>Acute oral toxicity</b>	no data available
<b>Skin corrosion/irritation</b>	no data available
<b>Eye damage/irritation</b>	no data available
<b>Respiratory or skin sensitization</b>	no data available
<b>Germ cell mutagenicity</b>	<b>Genotoxicity in vitro:</b> no data available  <b>Genotoxicity in vivo:</b> no data available  <b>Assessment Mutagenicity:</b> no data available
<b>Reproductive toxicity</b>	<b>Reproductive toxicity:</b> no data available  <b>Assessment Reproductive toxicity:</b> no data available  <b>Teratogenicity:</b> no data available

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	<b>Assessment teratogenicity:</b> no data available
<b>STOT - single exposure</b>	no data available
<b>STOT - repeated exposure</b>	no data available
<b>Aspiration toxicity</b>	no data available
<b>Carcinogenicity</b>	<b>Assessment carcinogenicity:</b> Contains no ingredient listed as a carcinogen

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**SECTION 12 ECOLOGICAL INFORMATION**


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<b>Aquatic toxicity</b>	Aquatic toxicity is unlikely due to low solubility.
<b>Toxicity to fish</b>	no data available
<b>Toxicity to aquatic invertebrates</b>	no data available
<b>Toxicity to algae</b>	no data available
<b>Chronic toxicity to fish</b>	no data available
<b>Chronic toxicity to aquatic invertebrates</b>	no data available
<b>Biodegradation</b>	Readily biodegradable.  OECD Test Guideline 301B (28 d): > 60 %  CEC L-33-T-82 (21 d): 100 %  EPA Gledhill 70.37 % Theoretical CO <sub>2</sub> (TCO <sub>2</sub> )
<b>Bioaccumulation</b>	no data available
<b>Mobility in soil</b>	no data available
<b>Other adverse effects</b>	no data available

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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.

### SECTION 14 TRANSPORT INFORMATION

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**DOT** Not regulated.

**IATA** Not regulated.

**IMDG** Not regulated.

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

**Remarks** no data available

### SECTION 15 REGULATORY INFORMATION

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#### U.S. FEDERAL REGULATIONS

##### OSHA Hazards (HCS 1994)

Non-hazardous substance

##### TSCA Inventory Listing

###### Components

Decanoic acid, 2-hexyl-, 2,2-bis[[[(2-hexyl-1-oxodecl)oxy]methyl]-1,3-propanediyl ester

###### CAS-No.

60623-04-3

##### SARA 302 Status

###### Components

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

###### CAS-No.

###### Weight percent

##### SARA 311/312 Classification

Non-hazardous substance

##### SARA 313 Chemical

###### Components

###### CAS-No.

###### Weight percent

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SARA 313: 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

WHMIS hazardous composition: No ingredients are hazardous according to the CPR criteria.

#### European Union

The product does not need to be labelled in accordance with EC directives or respective national laws.

Australia. Inventory of Chemical Substances (AICS)	Not listed
Japan. Inventory of Existing and New Chemical Substances (ENCS)	Listed
Japan. Industrial Safety & Health Law (ISHL) Inventory	Listed
Canada. Domestic Substances List (DSL) Inventory	Not listed
Canadian Non-Domestic Substance Listing (NDSL)	Listed
European Inventory of Existing Commercial Chemical Substances (EINECS) Listing	Listed
Philippines. Inventory of Chemicals / Chemical Substances (PICCS)	Listed
Korea. Existing Chemicals Inventory (KECI)	Not listed
China. Inventory of Existing Chemical Substances (IECSC)	Not listed
Mexico. National Inventory of Chemical Substances (INSQ)	Not listed
New Zealand. Inventory of Chemicals (NZIoC)	Listed
Switzerland. Inventory of Notified New Substances (CHINV)	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.

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**SECTION 16 OTHER INFORMATION**

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**HAZARD RATINGS**

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

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