

Heavy Olefin

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

Trade name	Heavy Olefin	
Synonyms	C10+ Olefin, IsoDodecenes, Methyl branched C10-14+ olefins, Tetramerization bottoms	
Use	Fuel	
Company	Sasol Chemicals (USA) LLC (an affiliate of Sasol Chemicals North America LLC)	
Address	12120 Wickchester Lane, Houston, TX 77079	
Telephone	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
E-mail address	ProdSafe.Shared@sasol.com	

SECTION 2 HAZARDS IDENTIFICATION

OSHA/GHS	Flammable liquids	Category 3
Hazards	Aspiration hazard	Category 1
	Chronic aquatic toxicity	Category 1

LABEL ELEMENTS

Hazard symbols



Signal word Danger

Hazard statements	H226 Flammable liquid and vapour.
	H304 May be fatal if swallowed and enters airways.
	H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention	P210 Keep away from open flames/hot surfaces. - No smoking.
	P233 Keep container tightly closed.
	P240 Ground/bond container and receiving equipment.
	P241 Use explosion-proof electrical/ ventilating/ lighting equipment.
	P242 Use only non-sparking tools.

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P243 Take precautionary measures against static discharge.

P280 Wear protective gloves/ eye protection/ face protection.

P273 Avoid release to the environment.

Response P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
 P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
 P331 Do NOT induce vomiting.
 P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide for extinction.
 P391 Collect spillage.

Storage P403 + P405 + P235 Store locked up in a well-ventilated place. Keep cool.

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

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

<u>Components</u>	<u>CAS-No.</u>	<u>Weight percent</u>
1-Octene, manuf. of, by-products from, distr. residues	1350428-64-6	100

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

SECTION 4 FIRST AID MEASURES

Eye contact Rinse immediately with plenty of water for at least 15 minutes. If eye irritation persists, consult a specialist.

Skin contact If skin irritation persists, call a physician. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

Inhalation Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.

Ingestion Do NOT induce vomiting. Consult a physician.

SECTION 5 FIREFIGHTING MEASURES

FLAMMABLE PROPERTIES

Fire/explosion NFPA Class 1C flammable liquid.

Suitable extinguishing media Water spray or fog, foam, dry chemical, CO₂.

Protective equipment In the event of fire, wear self-contained breathing apparatus.

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and precautions for
firefighters

Further information Keep containers and surroundings cool with water spray.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Methods and materials for containment and cleaning up Evacuate the area and eliminate 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).

Spill precautions Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system.

SECTION 7 HANDLING AND STORAGE

Safe handling advice Ensure all equipment is electrically grounded before beginning transfer operations. Keep away from heat and sources of ignition.

Storage/Transport pressure Ambient

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING MEASURES

Air contaminant levels should be controlled below the PEL or TLV for this product (see Exposure Guidelines).

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

Appearance liquid

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Colour	clear colourless
Form	liquid
Odour	hydrocarbon-like
Odour Threshold	No data available
Flash point	29 - 54 °C, 85 - 130 °F;
Flammability	Upper explosion limit: No data available Lower explosion limit: No data available
Boiling point/boiling range	182 - 274 °C, 359 - 525 °F;
Melting point/range	-101.7 °C, -151 °F;
Auto-ignition temperature	230 °C, 446 °F;
Decomposition temperature	No data available
Flammability (solid, gas)	No data available
Vapour pressure	No data available
Vapour density	3.9
Density	0.7644 g/cm ³ @ 25 °C, 77 °F;
Relative density	No data available
Water solubility	insoluble
Viscosity	No data available
pH	No data available
Evaporation rate	No data available
Partition coefficient: n-octanol/water	No data available

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SECTION 10 STABILITY AND REACTIVITY

Reactivity	Stable at normal ambient temperature and pressure.
Chemical stability	No decomposition if stored and applied as directed.
Conditions to avoid	Direct heating, dirt, chemical contamination, sunlight, UV or ionising radiation.
Hazardous decomposition products	No decomposition if stored normally.
Materials to avoid	Strong oxidizing agents.
Hazardous polymerisation	Heating can release hazardous gases. Vapours may form explosive mixture with air.

SECTION 11 TOXICOLOGICAL INFORMATION

Additional Remarks	Information given is based on data obtained from similar substances.
Acute dermal toxicity	No data available
Acute inhalation toxicity	No data available
Acute oral toxicity	No data available
Skin corrosion/irritation	Slightly irritating to the skin.
Serious eye damage/eye irritation	Slightly irritating to the eyes.
Respiratory or skin sensitisation	No data available
Germ cell mutagenicity	Genotoxicity in vitro: No data available Genotoxicity in vivo: No data available Assessment Mutagenicity: No data available
Reproductive toxicity	Reproductive toxicity: No data available

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Assessment Reproductive toxicity:

No data available

Teratogenicity:

No data available

Assessment teratogenicity:

No data available

STOT - single exposure No data available

STOT - repeated exposure In repeated dose studies, similar materials have shown low toxicity to female rats (alterations in body and organ weights and changes in certain hematological values) at the higher doses tested (NOAELs of > 100 mg/kg oral or > 1000 ppm inhalation) and male rat-specific kidney damage that is likely associated with the alpha2u-globulin protein (LOAELs > 100 mg/kg oral only). Based on screening level testing, they appear not to be neurotoxic (for 1-hexene and 1-tetradecene), produce no adverse effects on reproduction or fetal development (1-hexene and 1-tetradecene), and are not genotoxic.

Aspiration toxicity May be fatal if swallowed and enters airways.

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

SECTION 12 ECOLOGICAL INFORMATION

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

Toxicity to fish LC50 (Pimephales promelas (fathead minnow)) 96 hours: > 100,000 mg/l

Toxicity to aquatic invertebrates LC50 (Daphnia pulex (Water flea)) 48 hours: > 100,000 mg/l

Toxicity to algae No data available

Chronic toxicity to fish NOEC (Fish) 32 d: < 0.1 mg/l (predicted value)

Chronic toxicity to aquatic invertebrates NOEC (Daphnia sp. (water flea)) 21 d: < 0.1 mg/l (predicted value)

Biodegradation No biodegradation data is available.

Bioaccumulative potential No data available

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Mobility in soil No data available

Other adverse effects No data available

SECTION 13 DISPOSAL CONSIDERATIONS

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

DOT UN 1993, Flammable liquid, n.o.s., (Contains Octene), 3, III
IATA UN 1993, Flammable liquid, n.o.s., (Contains Octene), 3, III
IMDG UN 1993, Flammable liquid, n.o.s., (Contains Octene), 3, III

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

Remarks No data available

SECTION 15 REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA Inventory Listing

Components

Not listed

CAS-No.

SARA 302 Status

Components

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

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Should this product meet EPCRA 311/312 Tier reporting criteria of 40 CFR 370, refer to Section 2 of this SDS for appropriate classification and Section 3 for components that meet the hazardous classification.

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

Reportable Quantity

Weight percent

none

INTERNATIONAL REGULATIONS

WHMIS Classification

Flammable liquids	Category 3
Aspiration hazard	Category 1
Chronic aquatic toxicity	Category 1

European Union

Classification according to Regulation (EU) 1272/2008.

Flammable liquids, Category 3
Aspiration hazard, Category 1
Chronic aquatic toxicity, Category 1

Australia. Inventory of Chemical Substances (AICS)	Not listed
Japan. Inventory of Existing and New Chemical Substances (ENCS)	Not listed
Japan. ISHL - Inventory of Chemical Substances	Not listed
Canada. Domestic Substances List (DSL) Inventory	Not listed
Canada. Non-Domestic Substance Listing (NDSL)	Not listed
Philippines. Inventory of Chemicals / Chemical Substances (PICCS)	Not 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 Chemical Substances (NZIoC)	Not listed
Switzerland. Inventory of Notified New Substances (CHINV)	Not listed
Taiwan. National Existing Chemical Inventory (NECI)	Not listed



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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

HAZARD RATINGS

	<u>Health</u>	<u>Flammability</u>	<u>Physical Hazard/ Instability</u>
HMIS®	1	3	0
NFPA	1	3	0

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