

PARAFOL 12 RPSO-MB

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

Trade name	PARAFOL 12 RPSO-MB	
Synonyms	Lauryl alkane	
Use	Industrial use, Intermediate, Textile	
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	SasolElectronicSDS@us.sasol.com	

SECTION 2 HAZARDS IDENTIFICATION

OSHA/GHS	Flammable liquids	Category 4
Hazards	Aspiration hazard	Category 1

LABEL ELEMENTS

Hazard symbols



Signal word Danger

Hazard statements H227 Combustible liquid.
H304 May be fatal if swallowed and enters airways.

Precautionary statements

Prevention P210 Keep away from open flames/hot surfaces. - No smoking.
P280 Wear protective gloves/ eye protection/ face protection.

Response P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide for extinction.

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P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331 Do NOT induce vomiting.

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>
Dodecane	112-40-3	>97

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 IIIA combustible liquid.

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

Protective equipment and precautions for firefighters In the event of fire, wear self-contained breathing apparatus.

Further information Keep containers and surroundings cool with water spray.

SECTION 6 ACCIDENTAL RELEASE MEASURES

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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

Load/Unload temperature 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., Sasol Chemicals (USA) LLC recommends an internal limit of 5 mg/m³ (8-hour TWA) for exposure to mists of this product.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance liquid;

Colour Clear, colorless

Form liquid

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Odour	Hydrocarbons
Odour Threshold	No data available
Flash point	ca. 71 °C, 160 °F; DIN 51758;
Flammability	Upper explosion limit: No data available Lower explosion limit: 0.6 %(V)
Boiling point/boiling range	ca. 212 °C, 413 °F; DIN 51751;
Melting point/range	Pour point: -10 °C, 14 °F; ISO 3016;
Auto-ignition temperature	Not applicable
Decomposition temperature	No data available
Flammability (solid, gas)	No data available
Vapour pressure	10 Pa @ 20 °C, 68 °F;
Vapour density	No data available
Density	0.75 g/cm ³ @ 20 °C, 68 °F; DIN 51757;
Relative density	No data available
Water solubility	insoluble
Viscosity	ca. 2 mm ² /s @ 20 °C, 68 °F;
pH	No data available
Evaporation rate	No data available
Partition coefficient: n-octanol/water	No data available

SECTION 10 STABILITY AND REACTIVITY

Reactivity Stable at normal ambient temperature and pressure.

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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

Acute dermal toxicity	LD50 Rat: > 5,000 mg/kg; OECD Test Guideline 402 Test substance: Hydrocarbons, C11-C14, isoalkanes, cyclics, < 2% aromatics; (literature value)
Acute inhalation toxicity	LC50 Rat (8 hours): > 5 mg/l; vapour; OECD Test Guideline 403 Test substance: Hydrocarbons, C9-C11, isoalkanes, <2% aromatics; (literature value)
Acute oral toxicity	LD50 Rat: > 5,000 mg/kg; OECD Test Guideline 401 Test substance: Hydrocarbons, C9-C11, cyclics, < 2% aromatics; (literature value)
Skin corrosion/irritation	(Rabbit): OECD Test Guideline 404 Test substance: Hydrocarbons, C10-C12, isoalkanes, <2% aromatics Not irritating (literature value)
Serious eye damage/eye irritation	(Rabbit): OECD Test Guideline 405 Test substance: Hydrocarbons, C9-C11, cyclics, < 2% aromatics Not irritating (literature value)
Respiratory or skin sensitisation	Guinea pig: not sensitizing; Maximisation Test (literature value)
Germ cell mutagenicity	Genotoxicity in vitro: Result: In vitro tests did not show mutagenic effects Genotoxicity in vivo: Result: In vivo tests did not show mutagenic effects Assessment Mutagenicity: Based on available data, the classification criteria are not met.
Reproductive toxicity	Reproductive toxicity:

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Rat; Oral; OECD Test Guideline 422
 NOAEL (parents): 1,000 mg/kg
 NOAEL (F1): 1,000 mg/kg
 Test substance: decane

Assessment Reproductive toxicity:

Based on available data, the classification criteria are not met.

Teratogenicity:

Rat; Inhalation; OECD Test Guideline 414
 NOAEL (teratogen): 5.22 mg/l
 NOAEL (maternal): 5.22 mg/l
 Test substance: Hydrocarbons, C10-C12, isoalkanes, <2% aromatics
 (literature value)

Assessment teratogenicity:

Based on available data, the classification criteria are not met.

STOT - single exposure The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure Rat; Oral; OECD Test Guideline 408
 NOAEL: > 5,000 mg/kg
 Test substance: Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics;
 Subchronic toxicity
 (literature value)

Rat; Inhalation; OECD Test Guideline 413
 NOAEL (parents): 10.4 mg/l
 Test substance: Hydrocarbons, C10-C12, isoalkanes, <2% aromatics; Subchronic toxicity
 (literature value)
 The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

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 In the range of water solubility not toxic under test conditions.

Toxicity to fish LL50 (Oncorhynchus mykiss (rainbow trout)) 96 hours: > 10 - 100 mg/l; semi-static test;
 OECD Test Guideline 203
 (literature value)

Toxicity to aquatic EL50 (Daphnia magna (Water flea)) 48 hours: > 100 mg/l; Immobilization; OECD Test

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invertebrates	Guideline 202 Test substance: undecane (literature value)
Toxicity to algae	ErL50 (Pseudokirchneriella subcapitata (green algae)) 72 hours: > 100 mg/l; static test; OECD Test Guideline 201 Test substance: Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics (literature value)
Chronic toxicity to fish	NOELR (Oncorhynchus mykiss (rainbow trout)): > 1,000 mg/l; QSAR (literature value)
Chronic toxicity to aquatic invertebrates	NOELR (Daphnia magna (Water flea)) 21 d: > 1,000 mg/l (literature value)
Biodegradation	Readily biodegradable. OECD Test Guideline 301F (28 d): > 60 % Test substance: Hydrocarbons, C11-C12, n-alkanes, <2% aromatics
Bioaccumulative potential	: BCF: 790.9; Does not bioaccumulate. (literature value)
Mobility in soil	Adsorption/Soil; Medium: Soil Koc: > 5000 immobile
Other adverse effects	This substance is not considered to be persistent, bioaccumulating and toxic (PBT).;

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.

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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 NA 1993, Combustible liquid n.o.s., (Dodecane), III
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 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

U.S. FEDERAL REGULATIONS

TSCA Inventory Listing

Components
Dodecane

CAS-No.
112-40-3

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

"Fire hazard", "Immediate (acute) health hazard"

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

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INTERNATIONAL REGULATIONS

WHMIS Classification

Flammable liquids	Category 4
Aspiration hazard	Category 1

European Union

Classification according to Regulation (EU) 1272/2008.

Aspiration hazard, Category 1
Repeated exposure may cause skin dryness or cracking.

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
China. Inventory of Existing Chemical Substances (IECSC)	Listed
Mexico. National Inventory of Chemical Substances (INSQ)	Listed
New Zealand. Inventory of Chemical Substances (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.

SECTION 16 OTHER INFORMATION

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HAZARD RATINGS

	<u>Health</u>	<u>Flammability</u>	<u>Physical Hazard/ Instability</u>
HMIS®	1	2	0
NFPA	1	2	0

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