

PARAFOL® 22-95

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

Trade name PARAFOL® 22-95
Synonyms C22 Paraffin, Docosane
Use Industrial use, Intermediate
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
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MSDS 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

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>
Docosane	629-97-0	>95

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 In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing 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 IIIB combustible liquid.

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Suitable extinguishing media	Water spray or fog, foam, dry chemical, CO ₂
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

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).
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SECTION 7 HANDLING AND STORAGE

Safe handling advice	Ensure all equipment is electrically grounded before beginning transfer operations.
Storage/Transport pressure	Ambient
Load/Unload temperature	120 - 140 °F 49 - 60 °C

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.

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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	solid; Colorless liquid when melted.;
Colour	white
Form	solid
Odour	Hydrocarbons
Odour Threshold	no data available
Flash point	186 °C, 367 °F; ASTM D3278;
Flammability	Upper explosion limit: Not available Lower explosion limit: Not available
Boiling point/boiling range	369 °C, 696 °F;
Melting point/range	41 - 45 °C, 106 - 113 °F;
Auto-ignition temperature	Not available
Decomposition temperature	no data available
Flammability (solid, gas)	no data available
Vapour pressure	no data available
Vapour density	no data available
Density	0.778 g/cm ³ @ 25 °C, 77 °F;
Specific gravity	no data available
Water solubility	insoluble
Viscosity	4.4 cSt @ 60 °C, 140 °F;
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	Keep away from heat and sources of ignition.
Hazardous decomposition products	Hazardous gases and vapors produced in fire are oxides of carbon.
Materials to avoid	Oxidizing agents
Hazardous polymerisation	Stable

SECTION 11 TOXICOLOGICAL INFORMATION

Acute dermal toxicity	LD50 rat: > 2,000 mg/kg; OECD Test Guideline 402(literature value)
Acute inhalation toxicity	LC50 rat (4 hours): > 5 mg/l; dust/mist; OECD Test Guideline 403 (literature value)
Acute oral toxicity	LD50 rat: > 2,000 mg/kg; OECD Test Guideline 401
Skin corrosion/irritation	(rabbit): OECD Test Guideline 404 slight irritation, (literature value)
Eye damage/irritation	(rabbit): OECD Test Guideline 405 slight irritation, (literature value)
Respiratory or skin sensitization	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: no data available Assessment Reproductive toxicity: no data available Teratogenicity: rat;

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NOAEL (teratogen): > 1,000 mg/kg

NOAEL (maternal): > 1,000 mg/kg

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
Subchronic toxicity
The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

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

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 (Scophthalmus maximus (turbot)) 96 hours: > 100 mg/l; static test (literature value)

Toxicity to aquatic invertebrates LL50 (Acartia tonsa (copepod)) 48 hours: > 100 mg/l (literature value)

Toxicity to algae EL50 (Skeletonema costatum) 72 hours: > 100 mg/l (literature value)

Chronic toxicity to fish NOEL (Oncorhynchus mykiss (rainbow trout)) 28 d: > 1,000 mg/l; QSAR
In the range of water solubility not toxic under test conditions., (literature value)

Chronic toxicity to aquatic invertebrates NOEL (Daphnia magna (Water flea)) 21 d: > 1,000 mg/l; QSAR
In the range of water solubility not toxic under test conditions., (literature value)

Biodegradation Readily biodegradable.

OECD Test Guideline 306 (28 d): > 60 %
(literature value)

Bioaccumulation Bioaccumulation is unlikely.

Mobility in soil Adsorption/Soil
Koc: > 5000
immobile

Other adverse effects no data available

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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 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

U.S. FEDERAL REGULATIONS

OSHA Hazards (HCS 1994)
Non-hazardous substance

TSCA Inventory Listing

Components
Docosane

CAS-No.
629-97-0

SARA 302 Status

Components

CAS-No.

Weight percent

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

SARA 311/312 Classification

Non-hazardous substance

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SARA 313 Chemical**Components****CAS-No.****Weight percent**

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****Reportable Quantity****Weight percent**

none

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)	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	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)	Listed
China. Inventory of Existing Chemical Substances (IECSC)	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.

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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	1	0
NFPA	1	1	0

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