

PARAFOL 22 - 95

Version: 2.07

Revision Date 2018/05/28

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifier**

Trade name	PARAFOL 22 - 95
INCI	DOCOSANE
REACH No.	01-2120769105-54-0000
Substance name (REACH / CLP)	Docosane

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use	Industrial use Heat storage medium raw material for cosmetic agents
Uses advised against	

1.3 Details of the supplier of the safety data sheet

Company	SASOL Germany GmbH Anckelmannsplatz 1 20537 Hamburg
	Telephone: +49 40 63684-1000 Telefax: +49 40 63684-3700
Information (Product safety):	Telephone: + 49 (0) 23 65 - 49 47 05 Telefax: + 49 (0) 23 65 - 49 92 40
E-mail address	msds-info.germany@de.sasol.com

1.4 Emergency telephone number

Emergency telephone number	+ 49 (0) 5 51 - 1 92 40 (GIZ-Nord Poisons Centre)
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SECTION 2: HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture**

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.2 Label elements

Not a hazardous substance or mixture.

2.3 Other hazards

Forms slippery/greasy layers with water.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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This product is a substance in the meaning of regulation (EC) 1907/2006.

CHEMICAL CHARACTERIZATION**Docosane****component type:** Active ingredient**EC-No.:** 211-121-5**Index-No.:****CAS-No.:** 629-97-0**REACH No.:** 01-2120769105-54-0000**COMPONENTS TO BE NAMED IN ACCORDANCE WITH REGULATION (EC) 1907/2006 AS WELL AS OTHER HAZARDOUS INGREDIENTS AND CONTAINED SUBSTANCES WITH WORK PLACE LIMIT VALUES**

No hazardous ingredients

SECTION 4: FIRST AID MEASURES**4.1 Description of first aid measures**

General advice	No hazards which require special first aid measures.
If inhaled	Remove from exposure, lie down. If breathing is irregular or stopped, administer artificial respiration. Monitor breathing, give oxygen if necessary. Consult a physician.
In case of skin contact	Wash off with plenty of water.
In case of eye contact	Rinse with plenty of water.
If swallowed	Consult a physician. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Most important symptoms and effects, both acute and delayed	Symptoms: No information available. Risks: No information available.
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4.3 Indication of any immediate medical attention and special treatment needed

Indication of any immediate medical attention and special treatment needed	Treatment: No information available.
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SECTION 5: FIREFIGHTING MEASURES**5.1 Extinguishing media**

Suitable extinguishing media	Water spray, Dry powder, Foam, Carbon dioxide (CO ₂)
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5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting	Dangerous gases or fumes may occur in case of fire.
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5.3 Advice for firefighters

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Special protective equipment for firefighters	Wear self-contained breathing apparatus for firefighting if necessary.
Further information	Standard procedure for chemical fires.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	Use personal protective equipment.
Special precautions	Danger of slipping after spill or leakage.

6.2 Environmental precautions

Environmental precautions	No special environmental precautions required.
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6.3 Methods and materials for containment and cleaning up

Methods for cleaning up	Sweep up or vacuum up spillage and collect in suitable container for disposal. Molten form Allow to solidify, use mechanical handling equipment.
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6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on protection against fire and explosion	Normal measures for preventive fire protection.
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7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	No special storage conditions required.
Storage class (TRGS 510)	10-13: German Storage Class 10 to 13
Other data	Stable under normal conditions.

7.3 Specific end use(s)

Specific use(s)	This information is not available.
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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

COMPONENTS WITH WORKPLACE CONTROL PARAMETERS

National occupational exposure limits

No data available

EUROPEAN OCCUPATIONAL EXPOSURE LIMITS

No data available

DERIVED NO EFFECT LEVEL (DNEL)

Substance name: Docosane

Not relevant / not applicable

PREDICTED NO EFFECT CONCENTRATION (PNEC)

Substance name: Docosane		
Environmental Compartment	Value	Note
Fresh water		Not relevant / not applicable
Fresh water sediment		Not relevant / not applicable
Marine water		Not relevant / not applicable
Marine sediment		Not relevant / not applicable
treatment plant	10 mg/l	
intermittent release		Not relevant / not applicable
Soil		Not relevant / not applicable
Air		Not relevant / not applicable
food		Not relevant / not applicable

8.2 Exposure controls

PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection

No personal respiratory protective equipment normally required. In inadequately ventilated areas, where workplace limits are exceeded, where unpleasant odours exist or where dust, fibres and smoke occur, use self-contained breathing apparatus or breathing apparatus with a type P2 or P3 filter, in compliance with EN 143.

Hand protection

The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature).

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gloves suitable for permanent contact:

Material: Fluorinated rubber
Break through time: \geq 480 min
Layer thickness: 0.4 mm

Material: Nitrile rubber/nitrile latex
Break through time: \geq 480 min
Layer thickness: 0.35 mm

gloves suitable for splash protection:

Material: Polychloroprene
Break through time: \geq 240 min
Layer thickness: 0.5 mm

unsuitable gloves

Material: Natural rubber/natural latex, butyl-rubber, Polyvinylchloride

Eye protection	Safety glasses
Skin and body protection	Wear suitable protective equipment.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice.
Protective measures	No special protective equipment required.

ENVIRONMENTAL EXPOSURE CONTROLS

General advice	No special environmental precautions required.
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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	solid; 20 °C; 1,013 hPa
Form	solid
Colour	colourless
Odour	hydrocarbon-like
Odour Threshold	No data available
pH	Not applicable, Justification:., insoluble
Melting point/range	41 - 45 °C
Boiling point/boiling range	369 °C
Flash point	186 °C; ASTM D3278
Evaporation rate	Not relevant / not applicable Justification: Solid
Flammability (solid, gas)	No data available
Lower explosion limit	Not applicable Justification: Solid
Upper explosion limit	Not applicable

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	Justification: Solid
Vapour pressure	< 0.1 hPa; 20 °C
Relative vapour density	Not applicable, Justification: Solid
Density	0.778 g/cm ³ ; 25 °C
Water solubility	insoluble
Partition coefficient: n-octanol/water	log Pow: ca. 11; Calculated according to EPA
Ignition temperature	Not relevant, solid with a melting point < 160°C
Auto-ignition temperature	not auto-flammable
Viscosity, kinematic	4.4 mm ² /s; 60 °C 2.5 mm ² /s; 95 °C
Explosive properties	not expected based on structure and functional groups
Oxidizing properties	not expected based on structure and functional groups

9.2 Other data

None known.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity**Note** Stable at normal ambient temperature and pressure.**10.2 Chemical stability****Note** No decomposition if stored and applied as directed.**10.3 Possibility of hazardous reactions****Hazardous reactions** Hazardous decomposition products formed under fire conditions.**10.4 Conditions to avoid****Conditions to avoid** Direct heating, dirt, chemical contamination, sunlight, UV or ionising radiation.**10.5 Incompatible materials to avoid****Materials to avoid** None known.;**10.6 Hazardous decomposition products****Hazardous decomposition products** No decomposition if used as directed.**Thermal decomposition** No decomposition if used as directed.**SECTION 11: TOXICOLOGICAL INFORMATION**

11.1 Information on toxicological effects**Acute toxicity**

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Acute oral toxicity	Docosane: LD50 Rat: > 5,000 mg/kg; OECD Test Guideline 401 (literature value) Category approach Based on available data, the classification criteria are not met.
Acute inhalation toxicity	Docosane: LC50 Rat: > 5 mg/l; 4 h; OECD Test Guideline 403 Test atmosphere: dust/mist Category approach (literature value) Based on available data, the classification criteria are not met.
Acute dermal toxicity	Docosane: LD50 Rat: > 2,000 mg/kg; OECD Test Guideline 402 (literature value) Category approach Based on available data, the classification criteria are not met.
Skin corrosion/irritation	
Skin irritation	Docosane: Rabbit: slightly irritating; OECD Test Guideline 404 (literature value) Category approach Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	
Eye irritation	Docosane: Rabbit: slightly irritating; OECD Test Guideline 405 (literature value) Category approach Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	
Sensitisation	Docosane: Maximisation Test Guinea pig: not sensitizing; OECD Test Guideline 406 (literature value) Category approach Based on available data, the classification criteria are not met.
Germ cell mutagenicity	
Genotoxicity in vitro	Docosane: In vitro tests did not show mutagenic effects Category approach
Genotoxicity in vivo	Docosane: In vivo tests did not show mutagenic effects Category approach
Remarks	Docosane: Based on available data, the classification criteria are not met.
Carcinogenicity	
Remarks	Docosane: Based on available data, the classification criteria are not met.
Reproductive toxicity	
Reproductive toxicity	Docosane: No data available
Teratogenicity	Docosane: Rat NOAEL: > 1,000 mg/kg (based on body weight and day) NOAEL (pregnant female): > 1,000 mg/kg (based on body weight and day)

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Remarks-Teratogenicity	Category approach Docosane: Did not show teratogenic effects in animal experiments.
STOT - single exposure	
Remarks	Docosane: The substance or mixture is not classified as specific target organ toxicant, single exposure.
STOT - repeated exposure	
Remarks	Docosane: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Repeated dose toxicity	Docosane: Rat; Oral; Subchronic toxicity NOAEL: > 5,000 mg/kg (based on body weight and day); OECD Test Guideline 408 Category approach
Aspiration hazard	
Aspiration toxicity	Docosane: May be fatal if swallowed and enters airways.
Human experience	Docosane: Repeated exposure may cause skin dryness or cracking. No skin irritation Until now, sensitisation has not occurred during handling.
Toxicological information	Docosane: The substance is predicted to be bioavailable via the oral route. The substance is poorly absorbed via skin. extensive and rapid metabolism The substance is rapidly eliminated from the body. Category approach (literature value)

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	Docosane: LL50 (96 h) <i>Scophthalmus maximus</i> : > 100 mg/l ; static test (literature value) Category approach
Toxicity to fish - Chronic toxicity	Docosane: NOEL (28 d) <i>Oncorhynchus mykiss</i> (rainbow trout): > 1,000 mg/l; Growth rate; QSAR Category approach In the range of water solubility not toxic under test conditions. (literature value)
Toxicity to daphnia and other aquatic invertebrates	Docosane: LL50 (48 h) <i>Acartia tonsa</i> : > 100 mg/l (literature value) Category approach
Toxicity to daphnia and other	Docosane:

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aquatic invertebrates - Chronic toxicity	NOEL (21 d) Daphnia magna (Water flea): > 1,000 mg/l; reproduction rate; QSAR; Category approach In the range of water solubility not toxic under test conditions. (literature value)
Toxicity to aquatic plants	Docosane: EL50 (72 h) Skeletonema costatum (marine diatom): > 100 mg/l; (literature value) Category approach
Toxicity to bacteria	Docosane: EC50 (3 h) activated sludge of a predominantly domestic sewage: > 100 mg/l; OECD Test Guideline 209 Category approach (literature value)
Toxicity to soil dwelling organisms	Docosane: No data available
Toxicity to terrestrial flora	Docosane: No data available
Toxicity for other terrestrial non-mammalian fauna	Docosane: No data available
12.2 Persistence and degradability	
Biodegradability	Docosane: Biodegradable (literature value)
12.3 Bioaccumulative potential	
Bioaccumulation	Docosane: Bioaccumulation is unlikely. Category approach (literature value)
12.4 Mobility in soil	
Mobility	Docosane: Adsorption/Soil; Koc: > 5000; calculated immobile
12.5 Results of PBT and vPvB assessment	
Results of PBT assessment	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.
Results of PBT assessment	Docosane: Category approach Based on available data, the classification criteria are not met.
12.6 Other adverse effects	
General advice	Docosane: None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product	Can be incinerated, when in compliance with local regulations.
waste code of the European	A waste code in accordance with the European Waste Catalogue (EWC) may not be assigned to this product since it admits of a classification only when the

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Union: EWC

consumer uses it for some purpose. The waste code must be determined in agreement with the regional waste disposal authority or company.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
ICAO/IATA	Not dangerous goods

14.2 Proper shipping name

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
ICAO/IATA	Not dangerous goods

14.3 Transport hazard class

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
ICAO/IATA	Not dangerous goods

14.4 Packing group

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
ICAO/IATA	Not dangerous goods

14.5 Environmental hazards

ADR	Environmentally hazardous	no
RID	Environmentally hazardous	no
ADN	Environmentally hazardous	no
IMDG	Marine pollutant	no
ICAO/IATA	Environmentally hazardous	no

14.6 Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

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

Remarks No information available.

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SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

NATIONAL/OTHER REGULATIONS

Legislation on the control of major-accident hazards involving dangerous substances

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

list entry in the directive:: Not applicable

NOTIFICATION STATUS

Switzerland. Consolidated Inventory	CH INV	listed (product or constituents are listed)
US. Toxic Substances Control Act	TSCA	listed (product or constituents are listed)
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)	DSL	restricted (product or constituents are listed with quantity restrictions)
Australia. Industrial Chemical (Notification and Assessment) Act	AICS	listed (product or constituents are listed)
Japan. Kashin-Hou Law List	ENCS (JP)	listed (product or constituents are listed)
Japan. Industrial Safety & Health Law (ISHL) List	ISHL (JP)	listed (product or constituents are listed)
Korea. Existing Chemicals Inventory (KECI)	KECI (KR)	listed (product or constituents are listed)
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	PICCS (PH)	listed (product or constituents are listed)
China. Inventory of Existing Chemical Substances	INV (CN)	listed (product or constituents are 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 chapter 3.

15.2 Chemical safety assessment

Docosane

A Chemical Safety Assessment has been carried out for this substance. An annex to the MSDS is not required.

SECTION 16: OTHER INFORMATION

Safety datasheet sections which have been updated:

1. Identification of the substance/mixture and of the company/undertaking

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- 3. Composition/information on ingredients
- 8. Exposure controls/personal protection
- 15. Regulatory information

Further information:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

Key or legend to abbreviations and acronyms used in the safety data sheet

ADN	Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
ADR	Accord européen relatif au transport international des marchandises Dangereuses par Route
AICS	Australian Inventory of Chemical Substances
ANSI	American National Standards Institute
ASTM	American Society of Testing and Materials (US)
BCF	Bioconcentration factor
CLP	Regulation on Classification, Labelling and Packaging of Substances and Mixtures
DIN	Deutsches Institut für Normung
DNEL	Derived No-Effect Level
DSL	Domestic Substances List
EC...	Effect concentration ... %
ENCS	Existing Notified Chemical Substances (Japan)
EWC	European Waste Catalogue
IATA	International Air Transport Association
IBC	Intermediate Bulk Container
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISHL	Industrial Safety and Health Law (Japan)
ISO	International Organization for Standardization
IUAPC	International Union of Pure and Applied Chemistry
KECI	Korea Existing Chemicals Inventory
LC...	Lethal Concentration, ...%
LD...	Lethal Dose, ...%
MARPOL	International Convention for the Prevention of Pollution From Ships
NDSL	Non-Domestic Substances List
NOAEL	no observable adverse effect level
NOEL/NOEC	No Observed-effect level/concentration
NZIoC	New Zealand Inventory of Chemicals
OECD	Organisation for Economic Co-operation and Development
PBT	persistent, bioaccumulative, toxic
PICCS	Philippine Inventory of Chemicals and Chemical Substances
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport international ferroviaire de marchandises dangereuses
TG	Test Guideline
TRGS	Technische Regeln für Gefahrstoffe
TSCA	Toxic Substances Control Act
vPvB	very persistent, very bioaccumulative
WGK	Wassergefährdungsklasse