



Safety Data Sheet

C5-C6 n-paraffin

Version 1.08

Revision Date 13.04.2022

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

Product identifier

Trade name C5-C6 n-paraffin

Synonyms Alkanes C5-7

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

Use Industrial use.

Manufacturer or supplier's details

Company Sasol Chemicals, a division of Sasol South Africa Ltd

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2090
South Africa

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+65 3158 1074 (Asia Pacific)
+86 400 120 6011 (China)
+27 (0)17 610 4444 (South Africa)
0800 112 890 RSA-Local only
+61 (2) 8014 4558 (Australia)

SECTION 2. Hazards identification

Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Classification	Flammable liquids	Category 2
	Skin irritation	Category 2
	Specific target organ toxicity - single exposure (Central nervous system)	Category 3

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Specific target organ toxicity - repeated exposure	Category 2
Aspiration hazard	Category 1
Short-term (acute) aquatic hazard	Category 2
Long-term (chronic) aquatic hazard	Category 2
Reproductive toxicity	Category 2

Label elements

REGULATION (EC) No 1272/2008

Hazard pictograms



Signal word

: Danger

Hazard statements

- :
- H225 Highly flammable liquid and vapour.
 - H304 May be fatal if swallowed and enters airways.
 - H315 Causes skin irritation.
 - H336 May cause drowsiness or dizziness.
 - H373 May cause damage to organs through prolonged or repeated exposure.
 - H361f Suspected of damaging fertility.
 - H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

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Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P233 Keep container tightly closed.

P201 + P202 Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

P273 Avoid release to the environment.

Response

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P331 Do NOT induce vomiting.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P391 Collect spillage.

Storage

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal

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

Other hazards

None known.

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SECTION 3. Composition/information on ingredients

Chemical characterization

While this product is a cut, the alkane range is well defined and all of the alkanes that may fall within the range are known to be present. This product may be described as a blend of the following substances:

Pentane

Contents: %W/W

CAS-No. 109-66-0

Index-No. 601-006-00-1

EC-No. 203-692-4

n-Hexane

Contents: %W/W

CAS-No. 110-54-3

Index-No. 601-037-00-0

EC-No. 203-777-6

Heptane; n-Heptane

Contents: %W/W

CAS-No. 142-82-5

Index-No. 601-008-00-2

EC-No. 205-563-8

HAZARDOUS INGREDIENTS

Alkanes C5 - 7

Contents: 100.00 %W/W

CAS-No. 1174918-62-7

Index-No.

EC-No.

Hazard statements *H225 H315 H373 H304 H336 H401 H411
H361f*



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SECTION 4. First aid measures

Description of necessary first-aid measures

Inhalation	Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.
Skin contact	Wash off immediately with plenty of water for at least 15 minutes. Call a physician immediately.
Eye contact	Remove contact lenses. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately.
Ingestion	If swallowed, seek medical advice immediately and show this container or label. Prevent vomiting if possible. Do NOT induce vomiting.

Most important symptoms/effects, acute and delayed

Refer to SECTION 11

SECTION 5. Firefighting measures

Suitable extinguishing media	Foam. Dry powder. Carbon dioxide.
Special hazards arising from the substance or mixture	Flash back possible over considerable distance.
Special protective equipment for firefighters	Wear self-contained breathing apparatus and protective suit.

SECTION 6. Accidental release measures

Personal precautions	Keep people away from and upwind of spill/leak. Remove all sources of ignition. Do not breathe vapours or spray mist.
Environmental precautions	Prevent product from entering drains. Prevent further leakage

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or spillage if safe to do so.

Methods for cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste.

Reference to other sections

Refer to section 8 and 13

SECTION 7. Handling and storage**Safe handling advice**

Avoid inhalation of vapour or mist. Wear personal protective equipment.

Advice on protection**against fire and explosion**

Keep away from heat and sources of ignition. Use only explosion-proof equipment.

Requirements for storage areas and containers

Keep containers tightly closed in a dry, cool and well-ventilated place.

Advice on common storage

No data available.

SECTION 8. Exposure controls/personal protection**Components with workplace control parameters****NATIONAL OCCUPATIONAL EXPOSURE LIMITS**

Components	Type	Control parameters	Update	Basis
N-HEXANE	TWA	70 mg/m ³	1995	South Africa RELs
	TWA	20 ppm	1995	South Africa RELs
N-HEPTANE N-HEPTANE	TWA	1,600 mg/m ³	1995	South Africa RELs
	TWA	400 ppm	1995	South Africa RELs
	STEL	2,000 mg/m ³	1995	South Africa RELs
	STEL	500 ppm	1995	South Africa RELs
PENTANE, ALL ISOMERS	TWA	1,800 mg/m ³	1995	South Africa RELs
PENTANE, ALL ISOMERS	TWA	600 ppm	1995	South Africa RELs
	STEL	2,250 mg/m ³	1995	South Africa RELs
	STEL	750 ppm	1995	South Africa RELs

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Exposure controls

Engineering measures

Provide sufficient air exchange and/or exhaust in work rooms.

Personal protective equipment

Respiratory protection	Suitable respiratory equipment:
Hand protection	<p>Gloves suitable for permanent contact:</p> <p>Material: nitrile rubber/nitrile latex</p> <p>Break through time: > 8 h</p> <p>Material thickness: 0.35 mm</p> <p>Gloves suitable for permanent contact:</p> <p>Material: fluoro carbon rubber - FKM</p> <p>Break through time: > 8 h</p> <p>Material thickness: 0.4 mm</p> <p>Gloves suitable for permanent contact:</p> <p>Material: polychloroprene</p> <p>Break through time: < 1 h</p> <p>Material thickness: 0.5 mm</p> <p>Unsuitable gloves</p> <p>Material: butyl-rubber, natural rubber/natural latex, Polyvinylchloride</p>
Eye protection	Safety glasses with side-shields.
Skin and body protection	Safety shoes. Protective suit.
Hygiene measures	Wash hands before breaks and immediately after handling the product.

SECTION 9. Physical and chemical properties

Information on basic physical and chemical properties

Form	Liquid
State of matter	Liquid; at 20 ° C; 1,013 hPa
Colour	Clear Colourless
Odour	Slight

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Odour Threshold	No data available.
Boiling point/boiling range	50 - 100 ° C
Flash point	< -1 ° C; closed cup
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Auto ignition temperature	255 ° C
Decomposition	No data available.
Temperature	
Lower explosion limit	0.9 %(V)
Upper explosion limit	8.1 %(V)
Vapour pressure	130 hPa; ASTM D 2879-86
Relative vapour density	1.35
Density	0.66 g/cm ³ ; 20 ° C
Water solubility	Immiscible
Partition coefficient: n-octanol/water	log Pow: 5.8
Viscosity, dynamic	0.38 mPa.s; 20 ° C

SECTION 10. Stability and reactivity

Reactivity	Stable under normal conditions.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Heat, flames and sparks.
Materials to avoid	Strong acids and oxidizing agents
Hazardous decomposition products	Carbon oxides

SECTION 11. Toxicological information

Skin irritation	Irritating to skin.
Repeated dose toxicity	May cause damage to organs through prolonged or repeated exposure.
Further Information	May be fatal if swallowed and enters airways.

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SECTION 12. Ecological information

Toxicity to fish	Alkanes C5 - 7: Toxic to fish.
Toxicity to fish	Toxic to aquatic life with long lasting effects.
Biodegradability	Alkanes C5 - 7: Readily biodegradable.
Mobility in soil	No data available.
Results of PBT and vPvB assessment	Not expected to be a PBT and vPvB based on being readily biodegradable.

SECTION 13. Disposal considerations

Product	Dispose of in accordance with local regulations.
Packaging	Dispose of spent product packaging responsibly and lawfully with due consideration for health, safety and the environment.

SECTION 14. Transport information

DG Pictogram



ADR	
UN number:	3295
Class:	3
Packaging group:	II; F1;
Proper shipping name:	HYDROCARBONS, LIQUID, N.O.S. (pentane, n-hexane, Heptane)

RID	
UN number:	3295

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Class: 3
Packaging group: II; F1
Proper shipping name: HYDROCARBONS, LIQUID, N.O.S.
 (pentane, n-hexane, Heptane)

ADNR

UN number: 3295
Class: 3
Packaging group: II; F1
Proper shipping name: HYDROCARBONS, LIQUID, N.O.S.
 (pentane, n-hexane, Heptane)

IMDG

UN number: 3295
Class: 3
EmS: F-E, S-D
Packaging group: II
Proper shipping name: HYDROCARBONS, LIQUID, N.O.S.
 (pentane, n-hexane, Heptane)

Marine pollutant Marine pollutant

ICAO/IATA

UN number : 3295
Class: 3
Packaging group: II
Proper shipping name: HYDROCARBONS, LIQUID, N.O.S.
 (pentane, n-hexane, Heptane)

SECTION 15. Regulatory information

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

Canadian Domestic Substances List (DSL) All chemical constituents are listed in: Canadian Domestic Substances List (DSL) (See chapter 3)

Australian Inv. of Chem. Substances (AICS) All chemical constituents are listed in: Australian Inv. of Chem. Substances (AICS) (See chapter 3)

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New Zealand Inventory of Chemicals (NZIoC)	All chemical constituents are listed in: New Zealand Inventory of Chemicals (NZIoC) (See chapter 3)
Jap. Inv. of Exist. & New Chemicals (ENCS)	All chemical constituents are listed in: Jap. Inv. of Exist. & New Chemicals (ENCS) (See chapter 3)
Japan. Industrial Safety & Health Law (ISHL)	All chemical constituents are listed in: Japan. Industrial Safety & Health Law (ISHL) (See chapter 3)
Korea. Existing Chemicals Inventory (KECI)	All chemical constituents are listed in: Korea. Existing Chemicals Inventory (KECI) (See chapter 3)
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	All chemical constituents are listed in: Philippines Inventory of Chemicals and Chemical Substances (PICCS) (See chapter 3)
China Inv. Existing Chemical Substances (IECSC)	All chemical constituents are listed in: China Inv. Existing Chemical Substances (IECSC) (See chapter 3)
USA TSCA Inventory	All chemical constituents are listed in: USA TSCA Inventory (See chapter 3)

SECTION 16. Other information

Full text of H-Statements

- H225 Highly flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
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- H336 May cause drowsiness or dizziness.
- H361f Suspected of damaging fertility.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H401 Toxic to aquatic life.
- H411 Toxic to aquatic life with long lasting effects.

All reasonable efforts were exercised to compile this SDS in accordance with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS). The SDS only provides information regarding the health, safety and environmental hazards at the date of issue, to facilitate the safe receipt, use and handling of this product in the workplace and does not replace any product information or product specifications. Since Sasol and its subsidiaries cannot anticipate or control all conditions under which this product may be handled, used and



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received in the workplace, it remains the obligation of each user, receiver or handler to, prior to usage, review this SDS in the context within which this product will be received, handled or used in the workplace. The user, handler or receiver must ensure that the necessary mitigating measures are in place with respect to health and safety. This does not substitute the need or requirement for any relevant risk assessments to be conducted. It further remains the responsibility of the receiver, handler or user to communicate such information to all relevant parties that may be involved in the receipt, use or handling of this product.

Although all reasonable efforts were exercised in the compilation of this SDS, Sasol does not expressly warrant the accuracy of, or assume any liability for incomplete information contained herein or any advice given. When this product is sold, risk passes to the purchaser in accordance with the specific terms and conditions of sale.