



SASOL

Safety Data Sheet

Alcohol Based Hand Rub (HRE95IPA)

Version 1.01

Revision Date 28.04.2020

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

Product identifier

Trade name Alcohol Based Hand Rub (HRE95IPA)

Synonyms Hand sanitizer

Product code HRE95IPA

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

Use Hand sanitizer to help reduce viral and bacterial counts which may cause disease.

Manufacturer or supplier's details

Company Sasol Chemicals, a division of Sasol South Africa Ltd

Address Sasol Place, 50 Katherine Street
Sandton
2090
South Africa

Telephone +27103445000

E-mail address sasolchem.info.sa@sasol.com

Emergency telephone number +27 (0)17 610 4444 (South Africa)

SECTION 2. Hazards identification

Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Classification

Flammable liquids

Category 2

Label elements

REGULATION (EC) No 1272/2008

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Hazard pictograms

:



Signal word

:

Danger

Hazard statements

:

H225 Highly flammable liquid and vapour.

Precautionary statements

Prevention

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

P233 Keep container tightly closed.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

Response

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

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Storage

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

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

Mixture

Ethanol

Contents: ≥ 76.00 %VOL/VOL

CAS-No. 64-17-5

Index-No. 603-002-00-5

EC-No. 200-578-6

Hazard statements *H225*

Propan-2-ol

Contents: ≤ 4.00 %VOL/VOL

CAS-No. 67-63-0

Index-No. 603-117-00-0

EC-No. 200-661-7

Hazard statements *H225 H319 H336*

hydrogen peroxide solution

Contents: ≤ 0.20 %VOL/VOL

CAS-No. 7722-84-1

Index-No. 008-003-00-9

EC-No. 231-765-0

glycerol

Contents: ≤ 2.00 %VOL/VOL

CAS-No. 56-81-5

Index-No.

EC-No. 200-289-5

Potable water

Contents: ≤ 20.00 %VOL/VOL

CAS-No. 7732-18-5

Index-No.

EC-No.



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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. If symptoms persist, call a physician. |
| Skin contact | If skin irritation occurs or when skin contact is made with a quantity exceeding 10 ml, wash off immediately with plenty of water. |
| Eye contact | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Call a physician immediately. |
| Ingestion | If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. |

Most important symptoms/effects, acute and delayed

Refer to SECTION 11

Risks First aider needs to protect himself.

SECTION 5. Firefighting measures

| | |
|--|---|
| Suitable extinguishing media | Water spray. Dry powder. Foam. |
| Special hazards arising from the substance or mixture | Do not allow run-off from fire fighting to enter drains or water courses. |
| Special protective equipment for firefighters | Wear self-contained breathing apparatus and protective suit. |

SECTION 6. Accidental release measures

Personal precautions Ensure adequate ventilation. Keep away from sources of



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ignition - No smoking.

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

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). The material taken up must be disposed of in accordance with regulations.

Reference to other sections Refer to section 8 and 13

SECTION 7. Handling and storage

Safe handling advice Keep away from sources of ignition - No smoking.

Advice on protection against fire and explosion When handling this product in plastic drums, take measures to prevent the build up of electrostatic charges.

Requirements for storage areas and containers Keep containers tightly closed in a cool, well-ventilated place. Handle empty containers with care.

Advice on common storage Store between 15 and 30 deg C. Avoid freezing and excessive heat exceeding 40 deg C.

SECTION 8. Exposure controls/personal protection

Components with workplace control parameters

NATIONAL OCCUPATIONAL EXPOSURE LIMITS

| Components | Type | Control parameters | Update | Basis |
|-------------------|------|--------------------|--------|-------------------|
| ETHYL ALCOHOL | TWA | 1,900 mg/m3 | 1995 | South Africa RELs |
| ETHANOL | TWA | 1,000 ppm | 1995 | South Africa RELs |
| ISOPROPYL ALCOHOL | TWA | 980 mg/m3 | 1995 | South Africa RELs |
| PROPAN-2-OL | TWA | 400 ppm | 1995 | South Africa RELs |
| PROPAN-2-OL | STEL | 1,225 mg/m3 | 1995 | South Africa RELs |
| | STEL | 500 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 | Not required for normal conditions of use |
| Hand protection | Gloves suitable for permanent contact: Material: When exposed to quantities exceeding 1 liter, use butyl rubber gloves. Break through time: 4 h Material thickness: 0.5 mm |
| Eye protection | When exposed to quantities exceeding 1 liter, use safety glasses with side shields and protective suit. |
| Hygiene measures | When exposed to quantities exceeding 1 liter, wash hands before breaks and at the end of work day. |

SECTION 9. Physical and chemical properties

Information on basic physical and chemical properties

| | |
|------------------------------------|------------------------------|
| Form | Liquid |
| State of matter | Liquid |
| Colour | Colourless |
| Odour | Alcohol-like |
| Odour Threshold | No data available |
| pH | Not applicable |
| Boiling point/boiling range | 79 - 101 ° C; ASTM D1078 |
| Flash point | 20 ° C; ASTM D 93 |
| Evaporation rate | No data available |
| Flammability (solid, gas) | No data available |
| Vapour pressure | 14 kPa; 37.7 ° C; SASOL 2014 |
| Relative vapour density | No data available |



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| | |
|-----------------------------|--|
| Density | 0.860 g/cm ³ ; 20 ° C; ASTM D4052 |
| Water solubility | Completely soluble |
| Viscosity, kinematic | 1.62 mm ² /s; ASTM D455 |

SECTION 10. Stability and reactivity

| | |
|---|---|
| Reactivity | Stable under normal conditions. |
| Chemical stability | Stable under recommended storage conditions. |
| Possibility of hazardous reactions | Reactivity hazard in contact with strong oxidizing agents |
| Conditions to avoid | Heat, flames and sparks. |
| Materials to avoid | Oxidizing agents. Reducing agents Acids and bases |
| Hazardous decomposition products | No decomposition if stored normally. |

SECTION 11. Toxicological information

| | |
|----------------------------------|--|
| Acute oral toxicity | Propan-2-ol: LD50 Rat: > 2,000 mg/kg; (literature value) |
| Acute oral toxicity | Ethanol; Ethyl alcohol: LD50 Rat: > 2,000 mg/kg; OECD Test Guideline 401; (literature value) |
| Acute inhalation toxicity | Ethanol; Ethyl alcohol: LC50 Mouse: 4 h; > 20 mg/l; (literature value) |
| Acute inhalation toxicity | Propan-2-ol: LC50 Rat: 8 h; vapour; > 20 mg/l; (literature value) |
| Acute dermal toxicity | Propan-2-ol: LD50 Rabbit: > 2,000 mg/kg; (literature value) |
| Acute dermal toxicity | Ethanol; Ethyl alcohol: LD50 Dermal Rabbit: > 2,000 mg/kg; OECD Test Guideline 402; (literature value) |
| Skin irritation | Ethanol; Ethyl alcohol: Rabbit: Not irritating; OECD Test Guideline 404 (literature value) |
| Skin irritation | Propan-2-ol: Rabbit: Not irritating; (literature value) |



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| | |
|-------------------------------|---|
| Eye irritation | Ethanol; Ethyl alcohol: Rabbit: irritating OECD Test Guideline 405 (literature value) |
| Eye irritation | Propan-2-ol: Rabbit: irritating (literature value) |
| Sensitisation | Ethanol; Ethyl alcohol: Maximisation Test; Guinea pig: Not sensitizing; OECD Test Guideline 406; (literature value) |
| Sensitisation | Propan-2-ol: Buehler Test; Guinea pig: Not sensitizing; (literature value) |
| Repeated dose toxicity | Ethanol; Ethyl alcohol: Oral Rat; 90-day; NOAEL Early embryonic development 1,730 mg/kg Lowest observed adverse effect level 3,160 mg/kg |
| Mutagenicity | Ethanol; Ethyl alcohol: Ames test: Salmonella typhimurium; with and without; Not mutagenic; OECD Test Guideline 471; (literature value) |

SECTION 12. Ecological information

| | |
|--|---|
| Toxicity to fish | Ethanol; Ethyl alcohol: static test; Leuciscus idus; 48 h; LC50; > 100 mg/l; OECD Test Guideline 203; (literature value) |
| Toxicity to fish | Propan-2-ol: static test; Leuciscus idus melanotus; 48 h; LC50; > 100 mg/l; (literature value) |
| Toxicity to daphnia and other aquatic invertebrates | Ethanol; Ethyl alcohol: static test; Daphnia magna (Water flea); 24 h; EC50; > 100 mg/l(literature value) |
| Toxicity to daphnia and other aquatic invertebrates | Propan-2-ol: static test; Daphnia magna (Water flea); 48 h; EC50; > 100 mg/l(literature value) |
| Toxicity to algae | Ethanol; Ethyl alcohol: static test; Chlorella pyrenoidosa EC50; > 100 mg/l; OECD Test Guideline 201; (literature value) |
| Toxicity to algae | Propan-2-ol: static test; Scenedesmus subspicatus 72 h; EC50; > 100 mg/l; |



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| | |
|---|---|
| | (literature value) |
| Biodegradability | Ethanol; Ethyl alcohol: aerobic; > 70 %; 5 d; Readily biodegradable.; OECD Guideline 301 D; (literature value) |
| Biodegradability | Propan-2-ol: aerobic; activated sludge; 53 %; 5 d; Readily biodegradable.; (literature value) |
| Bioaccumulation | Propan-2-ol: No bioaccumulation is to be expected (log Pow <= 4). |
| Mobility in soil | No data available |
| Results of PBT and vPvB assessment | This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB). |
| Chemical Oxygen Demand (COD) | Ethanol; Ethyl alcohol: ca.1,700 mg/g; Directive 84/449/EEC, C.9; GLP: no; |

SECTION 13. Disposal considerations

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

SECTION 14. Transport information

| | |
|------------------------------|---------|
| ADR | |
| UN number: | 1170 |
| Class: | 3 |
| Packaging group: | II; F1; |
| Proper shipping name: | ETHANOL |
| RID | |
| UN number: | 1170 |
| Class: | 3 |
| Packaging group: | II; F1 |

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| | |
|-----------------------|----------|
| Proper shipping name: | ETHANOL |
| IMDG | |
| UN number: | 1170 |
| Class: | 3 |
| EmS: | F-E, S-D |
| Packaging group: | II |
| Proper shipping name: | ETHANOL |
| ICAO/IATA | |
| UN number : | 1170 |
| Class: | 3 |
| Packaging group: | II |
| Proper shipping name: | ETHANOL |

SECTION 15. Regulatory information

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

| | |
|--|--|
| Canada. DSL - Domestic Substances List, part of CEPA | All chemical constituents are listed in: Canada. DSL - Domestic Substances List, part of CEPA (See chapter 3) |
| Australia. AICS - Australian Inventory of Chemical Substances | All chemical constituents are listed in: Australia. AICS - Australian Inventory of Chemical Substances (See chapter 3) |
| New Zealand Inventory of Chemical Substances | All chemical constituents are listed in: New Zealand Inventory of Chemical Substances (See chapter 3) |
| Japan. ENCS - Existing and New Chemical Substances Inventory | All chemical constituents are listed in: Japan. ENCS - Existing and New Chemical Substances Inventory (See chapter 3) |
| Japan. Industrial Safety and Health Law - Inventory | All chemical constituents are listed in: Japan. Industrial Safety and Health Law - Inventory (See chapter 3) |
| Korea. KECI - Korean Existing Chemicals Inventory | All chemical constituents are listed in: Korea. KECI - Korean Existing Chemicals Inventory (See chapter 3) |
| Philippines. PICCS - Philippines Inventory of Chemicals and Chemical Substances | All chemical constituents are listed in: Philippines. PICCS - Philippines Inventory of Chemicals and Chemical Substances (See chapter 3) |



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China. IECSC - Inventory of Existing Chemical Substances in China

All chemical constituents are listed in: China. IECSC - Inventory of Existing Chemical Substances in China (See chapter 3)

Taiwan. Chemical Substances Inventory (TCSI)

All chemical constituents are listed in: Taiwan. Chemical Substances Inventory (TCSI) (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.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

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 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.

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