



# Safety Data Sheet

## Foundry Spirits

Version 1.02

Revision Date 27.07.2022

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

#### Product identifier

Trade name Foundry Spirits

Product code 2024

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

Use Solvent.

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

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+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
	Acute oral toxicity	Category 4
	Serious eye damage/eye irritation	Category 1
	Skin corrosion/irritation	Category 2

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Specific target organ toxicity - single exposure

Category 3

### Label elements

#### REGULATION (EC) No 1272/2008

Hazard pictograms

:



Signal word

:

Danger

Hazard statements

:

- H225 Highly flammable liquid and vapour.
- H302 Harmful if swallowed.
- H318 Causes serious eye damage.
- H315 Causes skin irritation.
- H336 May cause drowsiness or dizziness.

### Precautionary statements

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### Prevention

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P233 Keep container tightly closed.
- P264 Wash skin thoroughly after handling.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
- P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
- P240 Ground and bond container and receiving equipment.

### Response

- P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
- P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
- P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

### 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.

## SECTION 3. Composition/information on ingredients

### HAZARDOUS INGREDIENTS

#### Ethanol

**Contents:** > 60.00 %W/W

**CAS-No.** 64-17-5

**Index-No.** 603-002-00-5

**EC-No.** 200-578-6

**Hazard statements** H225

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### n-Butanol

**Contents:** < 10.00 %W/W

**CAS-No.** 71-36-3

**Index-No.** 603-004-00-6

**EC-No.** 200-751-6

**Hazard statements** *H226 H302 H335 H315 H318 H336*

### Propan-2-ol; isopropyl alcohol; isopropanol

**Contents:** < 10.00 %W/W

**CAS-No.** 67-63-0

**Index-No.** 603-117-00-0

**EC-No.** 200-661-7

**Hazard statements** *H225 H319 H336*

### Iso-butanol

**Contents:** < 10.00 %W/W

**CAS-No.** 78-83-1

**Index-No.** 603-108-00-1

**EC-No.** 201-148-0

**Hazard statements** *H226 H315 H318 H335 H336*

### Pentan-2-ol

**Contents:** < 10.00 %W/W

**CAS-No.** 6032-29-7

**Index-No.** 603-006-00-7

**EC-No.** 227-907-6

**Hazard statements** *H226 H315 H335*

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### SECTION 4. First aid measures

#### Description of necessary first-aid measures

<b>Inhalation</b>	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.
<b>Skin contact</b>	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. If eye irritation persists, consult a specialist.
<b>Ingestion</b>	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Call a physician immediately.

#### Most important symptoms/effects, acute and delayed

Refer to SECTION 11

### SECTION 5. Firefighting measures

<b>Suitable extinguishing media</b>	Dry sand. Dry chemical. Alcohol-resistant foam.
<b>Special hazards arising from the substance or mixture</b>	Flash back possible over considerable distance. Do not allow run-off from fire fighting to enter drains or water courses.
<b>Special protective equipment for firefighters</b>	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

### SECTION 6. Accidental release measures

<b>Personal precautions</b>	Keep people away from and upwind of spill/leak. Remove all sources of ignition. Use non-sparking tools. Do not breathe
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vapours or spray mist.

**Environmental precautions** Prevent product from entering drains. Prevent further leakage 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** Wear personal protective equipment. Provide sufficient air exchange and/or exhaust in work rooms. Take precautionary measures against static discharges. Ensure all equipment is electrically grounded before beginning transfer operations. Do not breathe vapours or spray mist.

**Advice on protection against fire and explosion** Keep away from open flames, hot surfaces and sources of ignition. Use explosion-proof equipment.

#### Requirements for storage

**areas and containers** Keep containers tightly closed in a cool, 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
ETHYL ALCOHOL	TWA	1,900 mg/m <sup>3</sup>	1995	South Africa RELs
ETHANOL	TWA	1,000 ppm	1995	South Africa RELs

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ISOPROPYL ALCOHOL	TWA	980 mg/m <sup>3</sup>	1995	South Africa RELs
PROPAN-2-OL	TWA	400 ppm	1995	South Africa RELs
PROPAN-2-OL	STEL	1,225 mg/m <sup>3</sup>	1995	South Africa RELs
	STEL	500 ppm	1995	South Africa RELs
BUTAN-1-OL	STEL	150 mg/m <sup>3</sup>	1995	South Africa RELs
N-BUTYL ALCOHOL	STEL	50 ppm	1995	South Africa RELs
BUTAN-1-OL				

#### Exposure controls

##### Engineering measures

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

##### Personal protective equipment

<b>Respiratory protection</b>	In case of insufficient ventilation, wear suitable respiratory equipment.
<b>Hand protection</b>	Gloves suitable for permanent contact: Material: butyl-rubber Break through time: 4 h Material thickness: 0.5 mm
<b>Eye protection</b>	Safety glasses with side-shields.
<b>Skin and body protection</b>	Protective suit.
<b>Hygiene measures</b>	Wash hands before breaks and immediately after handling the product.

## SECTION 9. Physical and chemical properties

### Information on basic physical and chemical properties

<b>Form</b>	Liquid
<b>State of matter</b>	Liquid; at 20 ° C; 1,013 hPa
<b>Colour</b>	Colourless
<b>Odour</b>	Alcohol-like
<b>Odour Threshold</b>	No data available.
<b>pH</b>	Not applicable.

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<b>Melting point/range</b>	No data available.
<b>Boiling point/boiling range</b>	78 - 117 ° C; ASTM D86
<b>Flash point</b>	19 ° C; ASTM D 93 - 85; closed cup;
<b>Evaporation rate</b>	No data available.
<b>Flammability (solid, gas)</b>	No data available.
<b>Auto-ignition temperature</b>	No data available.
<b>Decomposition</b>	No data available.
<b>Temperature</b>	
<b>Lower explosion limit</b>	No data available.
<b>Upper explosion limit</b>	No data available.
<b>Vapour pressure</b>	Not applicable.
<b>Relative vapour density</b>	No data available.
<b>Density</b>	0.79 g/cm <sup>3</sup> ; 20 ° C; ASTM D4052
<b>Water solubility</b>	Partly soluble
<b>Partition coefficient: n-octanol/water</b>	No data available.
<b>Viscosity, kinematic</b>	1.48 mm <sup>2</sup> /s; 20 ° C; ASTM D 445

#### SECTION 10. Stability and reactivity

<b>Reactivity</b>	Stable under recommended storage conditions.
<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Heating can release hazardous gases.
<b>Conditions to avoid</b>	Heat, flames and sparks. Extremes of temperature and direct sunlight.
<b>Materials to avoid</b>	Oxidizing agents. Acids and bases
<b>Hazardous decomposition products</b>	Carbon oxides

#### SECTION 11. Toxicological information

<b>Acute inhalation toxicity</b>	Ethanol: LC50 Rat: 6 h; vapour; > 20 mg/l; OECD Test Guideline 403; Central nervous system; Drowsiness(literature value), Based on available data, the classification criteria are not met.
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<b>Acute inhalation toxicity</b>	Propan-2-ol; isopropyl alcohol; isopropanol: LC50 Rat: 6 h; vapour; > 10000 ppm; OECD Test Guideline 403; Central nervous system; Drowsiness(literature value), Based on available data, the classification criteria are not met.
<b>Skin irritation</b>	Ethanol: Rabbit: Not irritating; OECD Test Guideline 404 (literature value)
<b>Skin irritation</b>	n-Butanol: Rabbit: Irritating; OECD Test Guideline 404 GLP: no; (literature value)
<b>Skin irritation</b>	Propan-2-ol; isopropyl alcohol; isopropanol: Rabbit: Not irritating; (literature value)
<b>Skin irritation</b>	Iso-butanol: Rabbit: Not irritating; (literature value)
<b>Eye irritation</b>	n-Butanol: Rabbit: Irritating GLP: no; (literature value)
<b>Eye irritation</b>	Propan-2-ol; isopropyl alcohol; isopropanol: Rabbit: Irritating (literature value)
<b>Eye irritation</b>	Iso-butanol: Rabbit: Irritating (literature value)
<b>Sensitisation</b>	Ethanol: Maximisation Test; Guinea pig: Not sensitizing; OECD Test Guideline 406; (literature value)
<b>Sensitisation</b>	Propan-2-ol; isopropyl alcohol; isopropanol: Buehler Test; Guinea pig: Not sensitizing; (literature value)
<b>Mutagenicity</b>	Ethanol: In vitro tests did not show mutagenic effects In vivo tests did not show mutagenic effects;
<b>Mutagenicity</b>	n-Butanol: Ames test: Salmonella typhimurium; with and without; Not mutagenic; OECD Test Guideline 471; GLP: no; (literature value)
<b>Mutagenicity</b>	Propan-2-ol; isopropyl alcohol; isopropanol:

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### Mutagenicity

In vitro tests did not show mutagenic effects  
 In vivo tests did not show mutagenic effects;  
 Iso-butanol:  
 Experiments showed mutagenic effects in cultured bacterial cells. Ames test: Salmonella typhimurium; with and without; Not mutagenic; (literature value)

## SECTION 12. Ecological information

<b>Toxicity to fish</b>	Ethanol: static test; Leuciscus idus; 48 h; LC50; > 100 mg/l; OECD Test Guideline 203; (literature value)
<b>Toxicity to fish</b>	n-Butanol: flow-through test; Pimephales promelas; 96 h; LC50; 1,730 mg/l; GLP: no; (literature value)
<b>Toxicity to fish</b>	Propan-2-ol; isopropyl alcohol; isopropanol: static test; Leuciscus idus melanotus; 48 h; LC50; > 100 mg/l; (literature value)
<b>Toxicity to fish</b>	Iso-butanol: flow-through test; Pimephales promelas; 96 h; LC50; 1,430 mg/l; (literature value)
<b>Toxicity to daphnia and other aquatic invertebrates</b>	Ethanol: static test; Daphnia magna (Water flea); 24 h; EC50; > 100 mg/l(literature value)
<b>Toxicity to daphnia and other aquatic invertebrates</b>	Propan-2-ol; isopropyl alcohol; isopropanol: static test; Daphnia magna (Water flea); 48 h; EC50; > 100 mg/l(literature value)
<b>Toxicity to daphnia and other aquatic invertebrates</b>	Iso-butanol: static test; Daphnia pulex (Water flea); 48 h; EC50; 1,100 mg/l(literature value)
<b>Toxicity to algae</b>	Ethanol: static test; Chlorella pyrenoidosa EC50; > 100 mg/l; OECD Test Guideline 201; (literature value)
<b>Toxicity to algae</b>	Propan-2-ol; isopropyl alcohol; isopropanol: static test; Scenedesmus subspicatus 72 h; EC50; > 100 mg/l;

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	(literature value)
<b>Toxicity to bacteria</b>	Ethanol: Pseudomonas putida; 16 h; 6,500 mg/l; Toxicity to bacteria
<b>Toxicity to bacteria</b>	n-Butanol: Pseudomonas putida; 17 h; EC50; 4,390 mg/l; Information taken from reference works and the literature.
<b>Biodegradability</b>	Ethanol: aerobic; > 70 %; 5 d; Readily biodegradable.; OECD Guideline 301 D; (literature value)
<b>Biodegradability</b>	n-Butanol: aerobic; activated sludge of a predominantly domestic sewage; 3 mg/l; 92 %; 20 d; Readily biodegradable.; GLP: no; (literature value)
<b>Biodegradability</b>	Propan-2-ol; isopropyl alcohol; isopropanol: aerobic; activated sludge; 53 %; 5 d; Readily biodegradable.; (literature value)
<b>Biodegradability</b>	Iso-butanol: aerobic; 100 mg/l; > 70 %; 14 d; Readily biodegradable.; OECD Guideline 301 A (new version); (literature value)
<b>Bioaccumulation</b>	Propan-2-ol; isopropyl alcohol; isopropanol: No bioaccumulation is to be expected (log Pow <= 4).
<b>Mobility in soil</b>	No data available.
<b>Results of PBT and vPvB assessment</b>	This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

### SECTION 13. Disposal considerations

<b>Product</b>	Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.
<b>Packaging</b>	Dispose of spent product packaging responsibly and lawfully with due consideration for health, safety and the environment.

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### SECTION 14. Transport information

#### DG Pictogram



#### ADR

UN number: 1987  
 Class: 3  
 Packaging group: II; F1;  
 Proper shipping name: ALCOHOLS, N.O.S.  
 (Ethanol, iso-propanol)

#### RID

UN number: 1987  
 Class: 3  
 Packaging group: II; F1  
 Proper shipping name: ALCOHOLS, N.O.S.  
 (Ethanol, iso-propanol)

#### ADNR

UN number: 1987  
 Class: 3  
 Packaging group: II; F1  
 Proper shipping name: ALCOHOLS, N.O.S.  
 (Ethanol, iso-propanol)

#### IMDG

UN number: 1987  
 Class: 3  
 EmS: F-E, S-D  
 Packaging group: II  
 Proper shipping name: ALCOHOLS, N.O.S.  
 (Ethanol, iso-propanol)

Marine pollutant Not a Marine Pollutant

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### ICAO/IATA

UN number : 1987  
 Class: 3  
 Packaging group: II  
 Proper shipping name: ALCOHOLS,N.O.S.  
 (Ethanol, iso-propanol)

## 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)
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)



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### 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.
- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H335 May cause respiratory 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.

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.