

## SECTION 1: Identification

### 1.1. Product identifier

Product form	: Substance
Trade name	: Fluidar 100
Substance type	: Mono-constituent
Type of product	: Solvents
CAS-No.	: 64742-95-6
UN-No. (ADR)	: 1268

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

Use of the substance/mixture	:
Recommended use	: Industrial uses

### 1.3. Supplier's details

#### Distributor

Rolfes Chemicals Pty Ltd  
Cnr Brammer and strachan street  
P.O. Box 14075, Wadeville  
1422 Germiston JHB – South Africa Gauteng  
South Africa  
T +27 11 873 0157

### 1.4. Emergency telephone number

Emergency number	: 0861114753
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## SECTION 2: Hazards identification


### 2.1. Classification of the substance or mixture

#### Classification according to the United Nations GHS

Flammable liquids, Category 3	H226
Germ cell mutagenicity, Category 1B	H340
Carcinogenicity, Category 1B	H350
Aspiration hazard, Category 1	H304
Hazardous to the aquatic environment – Acute Hazard, Category 1	H400
Full text of H-statements: see section 16	

### 2.2. Label elements

#### Labelling according to the United Nations GHS

Hazard pictograms (GHS ZA)	:	
Signal word (GHS-ZA)	:	Danger
Hazard statements (GHS ZA)	:	Flammable liquid and vapour. May be fatal if swallowed and enters airways. May cause genetic defects (Inhalation, Oral). Very toxic to aquatic life
Precautionary statements (GHS ZA)	:	Obtain, read and follow all safety instructions before use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical, lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid release to the environment. Wear protective clothing, eye protection, face protection. IF SWALLOWED: Get emergency medical help immediately. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water [or shower]. IF exposed or concerned, get medical advice. Do NOT induce vomiting. In case of

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According to SANS 10234:2019 and SANS 11014:2010

fire: Use dry extinguishing powder, foam to extinguish. Collect spillage. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents and container to an approved waste disposal plant.

### 2.3. Other hazards

Adverse physicochemical, human health and environmental effects : Flammable liquid and vapour, May cause genetic defects (if swallowed), May be fatal if swallowed and enters airways, Very toxic to aquatic life.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Substance type : Mono-constituent  
Name : Trisol A  
CAS-No. : 64742-95-6  
Product identifiers: See section 1.1

Name	Product identifier	%	Classification according to the United Nations GHS
Hydrocarbons, C9, aromatics	CAS-No.: 64742-95-6	> 95	Flam. Liq. 3, H226 Aquatic Acute 1, H400
Solvent naphtha (petroleum), medium aliph. [A complex combination of hydrocarbons obtained from the distillation of crude oil or natural gasoline. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C9 through C12 and boiling in the range of approximately 140°C to 220°C (284°F to 428°F).]	CAS-No.: 64742-88-7	< 2	Flam. Liq. 3, H226 Asp. Tox. 1, H304
Benzene	CAS-No.: 71-43-2		Not classified

Full text of H-statements: see section 16

### 3.2. Mixtures

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Call a physician immediately.  
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.  
First-aid measures after skin contact : Rinse skin with water/shower. Take off immediately all contaminated clothing.  
First-aid measures after eye contact : Rinse eyes with water as a precaution.  
First-aid measures after ingestion : Do not induce vomiting. Call a physician immediately.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after ingestion : Risk of lung oedema.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

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According to SANS 10234:2019 and SANS 11014:2010

### 5.2. Special hazards arising from the substance or mixture

- Fire hazard : Flammable liquid and vapour.  
Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Advice for firefighters

- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

#### 6.1.1. For non-emergency personnel

- Emergency procedures : No open flames, no sparks, and no smoking. Only qualified personnel equipped with suitable protective equipment may intervene.

#### 6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

- For containment : Collect spillage.  
Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.  
Other information : Dispose of materials or solid residues at an authorized site.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Floors, walls and other surfaces in the hazard area must be cleaned regularly.
- Hygiene measures : Separate working clothes from town clothes. Launder separately. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Ground/bond container and receiving equipment.  
Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

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According to SANS 10234:2019 and SANS 11014:2010

Benzene (71-43-2)	
<b>South Africa - Occupational Exposure Limits (Maximum Limits)</b>	
Local name	Benzene
RHCA - OEL [ppm]	5 ppm
RHCA - STEL/C [ppm]	1 ppm
Remark	CARC (denotes carcinogenicity, which is based on GHS categorisation, including category 1A and 1B), SKIN (danger of cutaneous absorption)
Regulatory reference	Government Notice No. R. 280, 2021
<b>South Africa - Occupational Exposure Limits (Airborne Pollutants)</b>	
Local name	Benzene
OEL TWA	3 mg/m <sup>3</sup>
OEL TWA	1 ppm
Regulatory reference	Government Notice No. R 904
<b>South Africa - Biological limit values</b>	
Local name	Benzene
BEI	25 µg/g creatinine Parameter: S-phenylmercapturic acid (SPMA) - Medium: urine - Sampling time: End of shift - Notations: B (background) 500 µg/g creatinine Parameter: t,t-Muconic acid (ttMA) - Medium: urine - Sampling time: End of shift - Notations: B (background)
Regulatory reference	Government Notice No. R. 280, 2021

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.  
Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures, such as personal protective equipment (PPE)

Hand protection : Protective gloves  
Eye protection : Safety glasses  
Skin and body protection : Wear suitable protective clothing  
Respiratory protection : [In case of inadequate ventilation] wear respiratory protection.

#### Personal protective equipment symbol(s):



### 8.4. Exposure limit values for the other components

No additional information available

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid  
Appearance : Liquid.  
Molecular mass : > g/mol  
Colour : clear. Colourless.  
Odour : aromatic.  
Odour threshold : No data available  
pH : No data available  
pH solution : No data available

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According to SANS 10234:2019 and SANS 11014:2010

Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: 154 K
Flash point	: 40 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability	: 2 Flammable, Flammable liquid and vapour.
Vapour pressure	: 20 hPa
Vapour pressure at 50°C	: No data available
Relative vapour density at 20°C	: No data available
Relative density	: No data available
Relative density of saturated gas/air mixture	: No data available
Density	: 0,87 g/cm <sup>3</sup>
Relative gas density	: No data available
Solubility	: immiscible and insoluble.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Partition coefficient n-octanol/water (Log Kow)	: No data available
Viscosity, kinematic	: 7,5 mm <sup>2</sup> /s
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
Lower explosion limit	: 0,8 vol %
Upper explosion limit	: 6 vol %

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions of use. Flammable liquid and vapour.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Vapours may form explosive mixture with air.

### 10.4. Conditions to avoid

Strong oxidizers. Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

fume. smokes. Carbon monoxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

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According to SANS 10234:2019 and SANS 11014:2010

<b>Hydrocarbons, C9, aromatics (64742-95-6)</b>	
LD50 dermal rabbit	> 3160 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 6193 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Remarks on results: other:
<b>Solvent naphtha (petroleum), medium aliph. [A complex combination of hydrocarbons obtained from the distillation of crude oil or natural gasoline. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C9 through C12 and boiling in the range of approximately 140°C to 220°C (284°F to 428°F).] (64742-88-7)</b>	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 798.1175 (Acute Oral Toxicity), Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method)
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: EPA OTS 798.1100 (Acute Dermal Toxicity), Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 5,28 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), 95% CL: 0,42 -
<b>Benzene (71-43-2)</b>	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LC50 Inhalation - Rat	43,767 mg/l air Animal: rat, Animal sex: female, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), 95% CL: 41690 - 45939
Skin corrosion/irritation	: CAUSES SKIN IRRITATION
Serious eye damage/irritation	: Irritation to eyes.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: May cause genetic defects
Carcinogenicity	: May cause cancer.
Reproductive toxicity	: Not classified
STOT-single exposure	: central nervous system. Causes damage to organs (bone marrow, liver, thymus) through prolonged or repeated exposure
STOT-repeated exposure	: Not classified
<b>Hydrocarbons, C9, aromatics (64742-95-6)</b>	
NOAEL (oral, rat, 90 days)	600 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
<b>Solvent naphtha (petroleum), medium aliph. [A complex combination of hydrocarbons obtained from the distillation of crude oil or natural gasoline. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C9 through C12 and boiling in the range of approximately 140°C to 220°C (284°F to 428°F).] (64742-88-7)</b>	
NOAEL (oral, rat, 90 days)	750 mg/kg bodyweight Animal: rat, Animal sex: female
NOAEC (inhalation, rat, vapour, 90 days)	≥ 0,024 mg/l air Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study)
<b>Benzene (71-43-2)</b>	
NOAEL (oral, rat, 90 days)	100 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
Aspiration hazard	: May be fatal if swallowed and enters airways.
<b>Fluidar 100 (64742-95-6)</b>	
Viscosity, kinematic	7,5 mm <sup>2</sup> /s
<b>Hydrocarbons, C9, aromatics (64742-95-6)</b>	
Animal studies and expert judgment for classification	False

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According to SANS 10234:2019 and SANS 11014:2010

**Solvent naphtha (petroleum), medium aliph. [A complex combination of hydrocarbons obtained from the distillation of crude oil or natural gasoline. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C9 through C12 and boiling in the range of approximately 140°C to 220°C (284°F to 428°F).] (64742-88-7)**

Animal studies and expert judgment for classification False

### **Benzene (71-43-2)**

Animal studies and expert judgment for classification False

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Very toxic to aquatic life.  
Hazardous to the aquatic environment, short-term (acute) : Very toxic to aquatic life.  
Hazardous to the aquatic environment, long-term (chronic) : Not classified.

#### **Fluidar 100 (64742-95-6)**

NOEC chronic algae 10 mg/l

#### **Hydrocarbons, C9, aromatics (64742-95-6)**

EC50 72h - Algae [1] 0,42 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

EC50 72h - Algae [2] 0,29 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

#### **Benzene (71-43-2)**

LC50 - Fish [1] 5,3 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)

EC50 72h - Algae [1] 32 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)

EC50 72h - Algae [2] 100 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)

NOEC chronic fish 0,8 mg/l Test organisms (species): Pimephales promelas Duration: '32 d'

### 12.2. Persistence and degradability

#### **Fluidar 100 (64742-95-6)**

Persistence and degradability Inherently biodegradable.

### 12.3. Bioaccumulative potential

#### **Fluidar 100 (64742-95-6)**

Bioaccumulative potential Does not bioaccumulate.

### 12.4. Mobility in soil

#### **Fluidar 100 (64742-95-6)**

Mobility in soil No additional information available

### 12.5. Other adverse effects

Ozone : Not classified  
Other adverse effects : No additional information available

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According to SANS 10234:2019 and SANS 11014:2010




### SECTION 13: Disposal considerations

#### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
Additional information : Flammable vapours may accumulate in the container.

### SECTION 14: Transport information

In accordance with SANS / IMDG / IATA

SANS	IMDG	IATA
<b>14.1. UN number</b>		
1268	1268	1268
<b>14.2. Proper Shipping Name</b>		
PETROLEUM DISTILLATES, N.O.S.	PETROLEUM DISTILLATES, N.O.S.	Petroleum distillates, n.o.s.
<b>14.3. Transport hazard class(es)</b>		
3	3	3
		
<b>14.4. Packing group</b>		
III	III	III
<b>14.5. Environmental hazards</b>		
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes
No supplementary information available		

#### 14.6. Special precautions for user

##### SANS

Special provisions (SANS) : 223  
Limited quantities (SANS) : 5 L  
Limited quantities (SANS) : 5 L  
Packagings, large packagings and IBCs Packing instructions (SANS) : P001, IBC03, LP01  
Portable tank and bulk containers instructions (SANS) : T4  
Portable tank and bulk container special provisions (SANS) : TP1, TP29

##### IMDG

Special provisions (IMDG) : 223, 955  
Limited quantities (IMDG) : 5 L  
Excepted quantities (IMDG) : E1  
Packing instructions (IMDG) : P001, LP01  
IBC packing instructions (IMDG) : IBC03  
Tank instructions (IMDG) : T4  
Tank special provisions (IMDG) : TP1, TP29  
EmS-No. (Fire) : F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS  
EmS-No. (Spillage) : S-E - SPILLAGE SCHEDULE Echo - FLAMMABLE LIQUIDS, FLOATING ON WATER  
Stowage category (IMDG) : A  
Properties and observations (IMDG) : Immiscible with water.

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### IATA

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y344
PCA limited quantity max net quantity (IATA)	: 10L
PCA packing instructions (IATA)	: 355
PCA max net quantity (IATA)	: 60L
CAO packing instructions (IATA)	: 366
CAO max net quantity (IATA)	: 220L
Special provisions (IATA)	: A3
ERG code (IATA)	: 3L

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

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health, and environmental national regulations specific for the product

No additional information available

## SECTION 16: Other information

Issue date	: 2006/03/14
Revision date	: 2024/03/07
Supersedes	: 2024/03/07

### Full text of H-statements

H226	Flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H340	May cause genetic defects
H350	May cause cancer
H400	Very toxic to aquatic life

Safety Data Sheet (SDS), South Africa

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.