

SECTION 1: Identification

1.1. Product identifier

Product form	: Mixture
Trade name	: VESTACID SA
Substance type	: Mono-constituent
Type of product	: Acids
CAS-No.	: 27176 87 0
Product code	: AB101
Formula	: R.C6H4.SO3.H

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

Use of the substance/mixture	:
Recommended uses and restrictions	: Surfactant 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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Acute toxicity (oral), Category 4	H302
Acute toxicity (dermal), Category 4	H312
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 1	H318
Specific target organ toxicity – Repeated exposure, Category 2	H373
Hazardous to the aquatic environment – Acute Hazard, Category 2	H401
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

Hazardous ingredients :

Benzene, C10-13-alkyl derivs.; Sulphuric acid; Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.

Hazard statements (GHS ZA) :

H302+H312 - Harmful if swallowed or in contact with skin
H315 - Causes skin irritation
H318 - Causes serious eye damage
H373 - May cause damage to organs (Skin, eyes, Respiratory tract) through prolonged or

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According to SANS 10234:2019 and SANS 11014:2010

Precautionary statements (GHS ZA)

- repeated exposure (Inhalation, Dermal, Oral)
H401 - Toxic to aquatic life
- : P260 - Do not breathe dusts or mists.
P264 - Wash hands, forearms and face thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P273 - Avoid release to the environment.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P301+P317 - IF SWALLOWED: Get medical help.
P302+P352 - IF ON SKIN: Wash with plenty of soap and water
P305+P354+P338 - IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P317 - Get medical help.
P319 - Get medical help if you feel unwell.
P321 - Specific treatment (see supplemental first aid instruction, specific cleansing agent(s) on this label).
P330 - Rinse mouth.
P332+P317 - If skin irritation occurs: Get medical help.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P501 - Dispose of contents and container to an approved waste disposal plant.

2.3. Other hazards

Adverse physicochemical, human health and environmental effects

- : May cause damage to organs through prolonged or repeated exposure, Harmful in contact with skin, Harmful if swallowed, Causes skin irritation, Causes serious eye damage, Toxic to aquatic life

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to the United Nations GHS
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.	CAS-No.: 85536-14-7	90 – 98	Acute Tox. 4 (Oral), H302 STOT RE 2, H373 Aquatic Chronic 3, H412
Benzene, C10-13-alkyl derivs.	CAS-No.: 67774-74-7	2 – 3	STOT RE 2, H373 Aquatic Acute 1, H400
Sulphuric acid	CAS-No.: 7664-93-9	1 – 3	Skin Corr. 1A, H314 Aquatic Chronic 3, H412

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Call a poison center or a doctor if you feel unwell.
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion : Rinse mouth. Call a poison center or a doctor if you feel unwell.

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

- Symptoms/effects after skin contact : Irritation.
Symptoms/effects after eye contact : Serious damage to eyes.

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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.

5.2. Special hazards arising from the substance or mixture

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 : Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin, eyes and clothing.

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.

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.
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. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Wear personal protective equipment.
Hygiene measures : Wash contaminated clothing before reuse. 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

Storage conditions : Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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Sulphuric acid (7664-93-9)	
South Africa - Occupational Exposure Limits (Restricted Limits)	
Local name	Sulphuric acid
RHCA - STEL/C	1 mg/m ³
Regulatory reference	Government Notice. R: 1179
South Africa - Occupational Exposure Limits (Airborne Pollutants)	
Local name	Sulphuric acid
OEL TWA	1 mg/m ³
OEL STEL	3 mg/m ³
Regulatory reference	Government Notice No. R 904

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 insufficient ventilation, wear suitable respiratory equipment

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 : No data available
Molecular mass : 326,49 g/mol
Colour : brown.
Odour : No data available
Odour threshold : No data available
pH : No data available
pH solution : No data available
Relative evaporation rate (butylacetate=1) : No data available
Relative evaporation rate (ether=1) : No data available
Melting point : 6,35 °C
Freezing point : 10 °C
Boiling point : 189 °C
Flash point : 196,9 – 206,9 °C
Auto-ignition temperature : 390 °C
Decomposition temperature : No data available
Flammability : Non flammable.
Vapour pressure : No data available
Vapour pressure at 50°C : No data available
Relative vapour density at 20°C : No data available
Relative density : No data available

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Relative density of saturated gas/air mixture	: No data available
Density	: 1,04 g/cm ³
Relative gas density	: No data available
Solubility	: Partially soluble.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Partition coefficient n-octanol/water (Log Kow)	: No data available
Viscosity, kinematic	: 1200 mm ² /s
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
Lower explosion limit	: No data available
Upper explosion limit	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under recommended handling and storage conditions (see section 7).

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

High temperature.

10.5. Incompatible materials

Oxidizing agent. metals. Bases. Carbonates.

10.6. Hazardous decomposition products

Carbon dioxide (CO₂). Carbon monoxide. Oxides of sulfur.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Harmful in contact with skin.
Acute toxicity (inhalation)	: Not classified

VESTACID SA (27176 87 0)	
LD50 oral rat	1470 mg/kg
LD50 dermal rat	2000 mg/kg
LD50 dermal	>
Benzene, C10-13-alkyl derivs. (67774-74-7)	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

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According to SANS 10234:2019 and SANS 11014:2010

Sulphuric acid (7664-93-9)	
LD50 oral rat	2140 mg/kg bodyweight Animal: rat, 95% CL: 1540 - 2990
LC50 Inhalation - Rat	0,375 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. (85536-14-7)	
LD50 oral rat	≈ 1470 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 1361 - 1588
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
Skin corrosion/irritation	: CAUSES (SEVERE) SKIN BURNS
Serious eye damage/irritation	: Severe eye irritant
Respiratory or skin sensitisation	: May be harmful if inhaled
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: May cause damage to organs (Skin, eyes, Respiratory tract) through prolonged or repeated exposure (Inhalation, Dermal, Oral).
Benzene, C10-13-alkyl derivs. (67774-74-7)	
LOAEL (oral, rat, 90 days)	500 mg/kg bodyweight Animal: rat, Guideline: other:
NOAEL (oral, rat, 90 days)	50 mg/kg bodyweight Animal: rat, Guideline: other:
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. (85536-14-7)	
LOAEL (oral, rat, 90 days)	300 mg/kg bodyweight Animal: rat
NOAEL (subchronic, oral, animal/female, 90 days)	50 mg/kg bodyweight Animal: , Animal sex: female
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified
VESTACID SA (27176 87 0)	
Viscosity, kinematic	1200 mm ² /s
Benzene, C10-13-alkyl derivs. (67774-74-7)	
Animal studies and expert judgment for classification	False
Sulphuric acid (7664-93-9)	
Animal studies and expert judgment for classification	False
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. (85536-14-7)	
Animal studies and expert judgment for classification	False

SECTION 12: Ecological information

12.1. Toxicity

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

VESTACID SA (27176 87 0)	
LC50 - Fish [1]	1,67 (>) mg/l

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VESTACID SA (27176 87 0)	
EC50 - Crustacea [1]	2,4 mg/l
ErC50 algae	47,3 mg/l
Benzene, C10-13-alkyl derivs. (67774-74-7)	
EC50 - Crustacea [1]	> 0,041 mg/l Test organisms (species): Daphnia magna
Sulphuric acid (7664-93-9)	
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
NOEC (chronic)	0,15 mg/l Test organisms (species): other:
NOEC chronic fish	0,31 mg/l Test organisms (species): Salvelinus fontinalis
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. (85536-14-7)	
LC50 - Fish [1]	2,88 mg/l Test organisms (species): Pimephales promelas
LC50 - Fish [2]	1,67 mg/l Test organisms (species): Lepomis macrochirus
EC50 - Crustacea [1]	2,9 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	7,4 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
NOEC (chronic)	1,18 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	0,23 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '72 d'

12.2. Persistence and degradability

VESTACID SA (27176 87 0)	
Persistence and degradability	Biodegradability in water: no data available.

12.3. Bioaccumulative potential

VESTACID SA (27176 87 0)	
Bioaccumulative potential	No additional information available

12.4. Mobility in soil

VESTACID SA (27176 87 0)	
Mobility in soil	No additional information available
Ecology - soil	Component with lowest volatility.

12.5. Other adverse effects

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

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
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According to SANS 10234:2019 and SANS 11014:2010

SECTION 14: Transport information

In accordance with SANS / IMDG / IATA

SANS	IMDG	IATA
14.1. UN number		
2586	2586	2586
14.2. Proper Shipping Name		
ALKYLSULPHONIC ACIDS, SOLID	ALKYLSULPHONIC ACIDS, LIQUID	Alkylsulphonic acids, liquid
14.3. Transport hazard class(es)		
8	8	8
		
14.4. Packing group		
III	III	III
14.5. Environmental hazards		
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No
No supplementary information available		

14.6. Special precautions for user

SANS

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

IMDG

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
EmS-No. (Fire) : F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage) : S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES
Stowage category (IMDG) : B
Segregation (IMDG) : SGG1, SG36, SG49
Properties and observations (IMDG) : Liquids usually with a pungent odour. When involved in a fire, evolve highly toxic gases. Corrosive to most metals. Cause burns to skin, eyes and mucous membranes.

IATA

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y841
PCA limited quantity max net quantity (IATA) : 1L
PCA packing instructions (IATA) : 852
PCA max net quantity (IATA) : 5L
CAO packing instructions (IATA) : 856
CAO max net quantity (IATA) : 60L
Special provisions (IATA) : A803

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ERG code (IATA) : 8L

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 : 2017/10/15

Supersedes : 2024/04/04

Full text of H-statements	
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H412	Harmful to aquatic life with long lasting effects

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.