

### SECTION 1: Identification of the substance/mixture and of the supplier/undertaking

#### 1.1. GHS product identifier

Product form : Mixture  
Trade name : Empicol 0627/AF

#### 1.2. Other means of identification

No additional information available

#### 1.3. Recommended use of the chemical and restrictions on use

Recommended use : Cleaning/washing agents and additives  
Industrial uses

#### 1.4. Supplier's details

##### Distributor

Rolfes Chemicals (Pty) Ltd.  
Cnr Brammer and Strachan Street,  
P.O. Box P.O. Box 14075, Wadeville  
1422 Germiston – South Africa Gauteng  
T 011 873 0157

#### 1.5. Emergency phone number

Emergency number : 086 111 4753

### SECTION 2: Hazard identification

#### 2.1. GHS classification of the substance/mixture and any national or regional information

##### Classification according to the United Nations GHS

Flammable liquids, Category 4	H227
Acute toxicity (dermal), Category 5	H313
Skin corrosion/irritation, Category 1	H314
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
Hazardous to the aquatic environment – Chronic Hazard, Category 2	H411

Full text of H-statements: see section 16

Adverse physicochemical, human health and environmental effects : Combustible liquid, May cause damage to organs through prolonged or repeated exposure, Harmful in contact with skin, Causes severe skin burns and eye damage, Causes serious eye damage, Toxic to aquatic life, Toxic to aquatic life with long lasting effects.

#### 2.2. GHS label elements, including precautionary statements

##### Labelling according to the United Nations GHS

Hazard pictograms (GHS ZA) :



Signal word (GHS-ZA) :

Danger

Hazardous ingredients :

Alcohols, C12-14, ethoxylated, sulfates, sodium salts [1 - 2.5 moles ethoxylated]; 2-methyl-2H-isothiazol-3-one

Hazard statements (GHS ZA) :

H227 - Combustible liquid  
H313 - May be harmful in contact with skin  
H314 - Causes severe skin burns and eye damage

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### Precautionary statements (GHS ZA)

H373 - May cause damage to organs (Skin, digestive tract) through prolonged or repeated exposure (Dermal, Oral)  
H411 - Toxic to aquatic life with long lasting effects  
: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P260 - Do not breathe dusts or mists.  
P264 - Wash hands, face thoroughly after handling.  
P273 - Avoid release to the environment.  
P280 - Wear eye protection, protective clothing, protective gloves.  
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P354+P338 - IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P316 - Get emergency medical help immediately.  
P317 - Get medical help.  
P319 - Get medical help if you feel unwell.  
P321 - Specific treatment (see supplemental first aid instruction on this label).  
P363 - Wash contaminated clothing before reuse.  
P370+P378 - In case of fire: Use alcohol resistant foam, dry extinguishing powder, foam to extinguish.  
P391 - Collect spillage.  
P403 - Store in a well-ventilated place.  
P405 - Store locked up.  
P501 - Dispose of contents and container to an approved waste disposal plant.

### P-statements for label (GHS-ZA)

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.; P260 - Do not breathe dusts or mists.; P264 - Wash hands, face thoroughly after handling.; P273 - Avoid release to the environment.; P280 - Wear eye protection, protective clothing, protective gloves.; P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.; IF INHALED: Remove person to fresh air and keep comfortable for breathing.; P305+P354+P338 - IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.; P316 - Get emergency medical help immediately.; P317 - Get medical help.; P319 - Get medical help if you feel unwell.; P321 - Specific treatment (see supplemental first aid instruction on this label).; P363 - Wash contaminated clothing before reuse.; P370+P378 - In case of fire: Use alcohol resistant foam, dry extinguishing powder, foam to extinguish.; P391 - Collect spillage.; P403 - Store in a well-ventilated place.; P405 - Store locked up.; P501 - Dispose of contents and container to an approved waste disposal plant.

### 2.3. Other hazards which do not result in classification or are not covered by the GHS

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

Name	Product identifier	%	Classification according to the United Nations GHS
Alcohols, C12-14, ethoxylated, sulfates, sodium salts [1 - 2.5 moles ethoxylated]	CAS-No.: 68891-38-3	20 – 25	Acute Tox. 4 (Dermal), H312 STOT RE 2, H373 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Coconut oil reaction products with diethanolamine	CAS-No.: 8051-30-7	≤ 2	Flam. Liq. 4, H227 Aquatic Acute 2, H401 Aquatic Chronic 2, H411

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Name	Product identifier	%	Classification according to the United Nations GHS
2-methyl-2H-isothiazol-3-one	CAS-No.: 2682-20-4	≥ 1	STOT RE 2, H373 Aquatic Acute 2, H401 Aquatic Chronic 2, H411

### SECTION 4: First aid measures

#### 4.1. Description of necessary 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. Call a physician immediately.
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. Do not induce vomiting. Call a physician immediately.

#### 4.2. Most important symptoms/effect, acute and delayed

Symptoms/effects after inhalation	: Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.
Symptoms/effects after skin contact	: Burns.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: Burns.

#### 4.3. Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: Do not use a heavy water stream.

#### 5.2. Specific hazards arising from the chemical

Fire hazard	: Combustible liquid.
Explosion hazard	: No direct explosion hazard.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

#### 5.3. Special protective actions for fire-fighters

Firefighting instructions	: Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.
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

General measures	: Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.
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##### 6.1.1. For non-emergency personnel

Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: Ventilate spillage area. No open flames, no sparks, and no smoking. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin, eyes and clothing.

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### 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".
- Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

### 6.2. Environmental precautions

Avoid release to the environment.

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

- For containment : Collect spillage. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.
- 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. Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing.
- Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
- Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.

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

- Technical measures : Keep in a cool, well-ventilated place away from heat.
- Storage conditions : Store in a well-ventilated place. Keep cool. Store locked up.
- Packaging materials : Store always product in container of same material as original container.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 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

- 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

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### SECTION 9: Physical and chemical properties

#### 9.1. Basic physical and chemical properties

Physical state	: Liquid
Appearance	: White.
Colour	: white
Odour	: characteristic
Odour threshold	: No data available
pH	: 7.25 – 0.25
pH solution	: No data available
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	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability	: Combustible liquid
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
Relative density of saturated gas/air mixture	: No data available
Density	: 1.05 g/cm <sup>3</sup>
Relative gas density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Partition coefficient n-octanol/water (Log Kow)	: No data available
Viscosity, kinematic	: No data available
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
Physical state	: Liquid
Appearance	: White.

#### 9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

### SECTION 10: Stability and Reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 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

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

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### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : May be harmful in contact with skin.  
Acute toxicity (inhalation) : Not classified

#### Empicol 0627/AF

ATE ZA (Dermal)	4400 mg/kg bodyweight
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#### Alcohols, C12-14, ethoxylated, sulfates, sodium salts [1 - 2.5 moles ethoxylated] (68891-38-3)

LD50 oral rat	> 2000 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)

#### Coconut oil reaction products with diethanolamine (8051-30-7)

LD50 oral rat	> 2000 mg/kg Source: International Uniform Chemical Information Database
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Skin corrosion/irritation : Causes severe skin burns.  
pH: 7.25 – 0.25

Serious eye damage/irritation : Causes serious eye damage.  
pH: 7.25 – 0.25

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : May cause damage to organs (Skin, digestive tract) through prolonged or repeated exposure (Dermal, Oral).

#### Alcohols, C12-14, ethoxylated, sulfates, sodium salts [1 - 2.5 moles ethoxylated] (68891-38-3)

LOAEL (oral, rat, 90 days)	25 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEL (oral, rat, 90 days)	> 225 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

#### 2-methyl-2H-isothiazol-3-one (2682-20-4)

LOAEL (oral, rat, 90 days)	71.2 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents), Guideline: other:
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

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Hazardous to the aquatic environment, short-term (acute) : Toxic to aquatic life.

Hazardous to the aquatic environment, long-term (chronic) : Toxic to aquatic life with long lasting effects.

<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts [1 - 2.5 moles ethoxylated] (68891-38-3)</b>	
LC50 - Fish [1]	7.1 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	7.4 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	27.7 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
NOEC (chronic)	0.27 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	0.14 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '28 d'

<b>Coconut oil reaction products with diethanolamine (8051-30-7)</b>	
LC50 - Fish [1]	5.4 mg/l Source: IUCLID
EC50 - Crustacea [1]	2.39 mg/l Source: IUCLID
EC50 96h - Algae [1]	2.3 mg/l Source: IUCLID

<b>2-methyl-2H-isothiazol-3-one (2682-20-4)</b>	
LC50 - Fish [1]	4.77 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	1.6 mg/l Test organisms (species): Daphnia magna

### 12.2. Persistence and degradability

<b>Empicol 0627/AF</b>	
Persistence and degradability	Not rapidly degradable

<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts [1 - 2.5 moles ethoxylated] (68891-38-3)</b>	
Persistence and degradability	

<b>Coconut oil reaction products with diethanolamine (8051-30-7)</b>	
Persistence and degradability	

<b>2-methyl-2H-isothiazol-3-one (2682-20-4)</b>	
Persistence and degradability	

### 12.3. Bioaccumulative potential

<b>Empicol 0627/AF</b>	
Bioaccumulative potential	No additional information available

<b>Coconut oil reaction products with diethanolamine (8051-30-7)</b>	
Partition coefficient n-octanol/water (Log Kow)	3.52 Source: International Uniform Chemical Information Database

### 12.4. Mobility in soil

<b>Empicol 0627/AF</b>	
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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### SECTION 13: Disposal Considerations

#### 13.1. Disposal methods

Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Disposal must be done according to official regulations.
Additional information	: Do not re-use empty containers.

### SECTION 14: Transport information

In accordance with SANS / IMDG / IATA

SANS	IMDG	IATA
<b>14.1. UN number</b>		
Not regulated for transport		
<b>14.2. UN Proper Shipping Name</b>		
Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>		
Not applicable	Not applicable	Not applicable
		
<b>14.4. Packing group, if applicable</b>		
Not applicable	Not applicable	Not applicable
<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

No data available

##### IMDG

No data available

##### IATA

No data available

#### 14.7. Transport in bulk according to IMO instructions

Not applicable

### SECTION 15: Regulatory information

#### 15.1. National regulations

##### 15.1.1. OCCUPATIONAL HEALTH AND SAFETY ACT, 1993

#### Prohibited Hazardous Chemical Agents

Not regulated

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

No additional information available

### SECTION 16: Other information

Issue date : 30/10/2020  
Revision date : 16/10/2024  
Supersedes : 16/10/2024

#### Full text of H-statements:

H227	Combustible liquid
H312	Harmful in contact with skin
H313	May be harmful in contact with skin
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
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

Safety Data Sheet (SDS), South Africa (HCA)

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.