

## Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010 Issue date: 4/28/2023 Revision date: 4/28/2025 Version: 1.0

## **SECTION 1: Identification**

#### 1.1. Product identifier

Product form : Mixture

Trade name : Freeze gel - Cooling muscle rub

Type of product : Cooling muscle rub

Product code : 95956
Product group : Trade product

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

Use of the substance/mixture

## 1.3. Supplier's details

#### Manufacturer

Shield Chemicals (Pty) Ltd 9 London Rd Apex P.O. Box 1939 1501 Benoni – Gauteng South Africa T (011) 421 7111 Contact: Jayson Clark

#### 1.4. Emergency telephone number

Emergency number : (011) 421 7111

## **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

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

Flammable liquids, Category 3 H226 Serious eye damage/eye irritation, Category 2A H319

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) : Warning

Hazard statements (GHS ZA) : H226 - Flammable liquid and vapour

H319 - Causes serious eye irritation

Precautionary statements (GHS ZA) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P233 - Keep container tightly closed.

P240 - Ground and bond container and receiving equipment.

P241 - Use explosion-proof equipment.

P242 - Use non-sparking tools.

P243 - Take action to prevent static discharges.

P280 - Wear eye protection, protective clothing, protective gloves.

 $\label{eq:interpolation} \textbf{IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas}$ 

with water [or shower].

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

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P370+P378 - In case of fire: Use carbon dioxide (CO2), sand, foam, extinguishing powder to extinguish.

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

P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

#### 2.3. Other hazards

Adverse physicochemical, human health and environmental effects

: Flammable liquid and vapour, Causes serious eye irritation.

#### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to the United Nations GHS
Ethanol	CAS-No.: 64-17-5	50.0 - 60.0	Flam. Liq. 2, H225 Acute Tox. Not classified (Oral) Acute Tox. Not classified (Dermal) Acute Tox. Not classified (Inhalation:dust,mist) Eye Irrit. 2A, H319 Aquatic Acute Not classified
L Menthol	CAS-No.: 2216-51-5	1.0 - 5.0	STOT RE Not classified Aquatic Acute 3, H402

## **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

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 cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : 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 eye contact : Eye irritation.

#### 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

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

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#### 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. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes.

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

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. Avoid contact with skin and eyes.

Hygiene measures

: 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.

## **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 (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

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#### 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 : Thick gel. Colour : Blue. Odour : characteristic. Odour threshold : No data available : No data available рΗ : No data available pH solution 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 : ≈ 44.1 °C Flash point Auto-ignition temperature : No data available : No data available Decomposition temperature Flammability : Not applicable 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 No data available 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 : 40000 - 75000 mPa·s Viscosity, dynamic 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

Flammable liquid and vapour.

#### 10.2. Chemical stability

Stable under normal conditions.

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#### 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.

#### 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**

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

Ethanol (64-17-5)	
LD50 oral rat	10470 mg/kg
LD50 dermal rabbit	> 15800 mg/kg
LC50 Inhalation - Rat	51 mg/l/4h

#### L Menthol (2216-51-5)

LC50 Inhalation - Rat ≈ 5.289 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified

Mα	ant	hol	17	221	<b>6</b> .	.51	I-51

NOAEL (oral, rat, 90 days) > 375 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies), Remarks on results: not determinable

Aspiration hazard : Not classified

Ethanol (64-17-5)		
Animal studies and expert judgment for classification	False	
L Menthol (2216-51-5)		

#### **SECTION 12: Ecological information**

Animal studies and expert judgment for classification

#### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

Hazardous to the aquatic environment, short-term

(acute)

: Not classified

False

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Hazardous to the aquatic environment, long-term : Not classified

(chronic)

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Ethanol (64-17-5)	
LC50 - Fish [1]	11.2 mg/l
EC50 - Crustacea [1]	5012 mg/l
Bioconcentration factor (BCF REACH)	< 10
L Menthol (2216-51-5)	
LC50 - Fish [1]	15.6 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	26.6 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	20 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h - Algae [2]	21.4 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

## 12.2. Persistence and degradability

Freeze gel - Cooling muscle rub		
Persistence and degradability	No additional information available	
Ethanol (64-17-5)		
Chemical oxygen demand (COD)	2.04 g O <sub>2</sub> /g substance	

## 12.3. Bioaccumulative potential

Freeze gel - Cooling muscle rub		
Bioaccumulative potential	No additional information available	
Ethanol (64-17-5)		
Bioconcentration factor (BCF REACH)	< 10	

## 12.4. Mobility in soil

Freeze gel - Cooling muscle rub		
Mobility in soil No additional information available		
Ethanol (64-17-5)		
Mobility in soil 1		

## 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.

Additional information : Flammable vapours may accumulate in the container.

## **SECTION 14: Transport information**

In accordance with SANS / IMDG / IATA

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SANS	IMDG	IATA
14.1. UN number		
1993	1993	1993
14.2. Proper Shipping Name		
FLAMMABLE LIQUID, N.O.S.	FLAMMABLE LIQUID, N.O.S.	Flammable liquid, n.o.s.
14.3. Transport hazard class(es)		
3	3	3
3	3	3
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	,	<u>'</u>

#### 14.6. Special precautions for user

#### SANS

Special provisions (SANS) : 223, 274
Limited quantities (SANS) : 5 L
Limited quantities (SANS) : 5 L

Packagings, large packagings and IBCs Packing : P001, IBC03, LP01

instructions (SANS)

Portable tank and bulk containers instructions : T4

(SANS)

Portable tank and bulk container special provisions : TP1, TP29

(SANS)

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#### **IMDG**

Special provisions (IMDG) : 223, 274, 955

Limited quantities (IMDG) : 5 L

Excepted quantities (IMDG) : E1

Packing instructions (IMDG) : LP01, P001

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

#### 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

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## **SECTION 15: Regulatory information**

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

No additional information available

## **SECTION 16: Other information**

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Full text of	H-statements
H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H302	Harmful if swallowed
H313	May be harmful in contact with skin
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H320	Causes eye irritation
H373	May cause damage to organs through prolonged or repeated exposure
H401	Toxic to aquatic life
H402	Harmful 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.