

## SAFETY DATA SHEET

ACCORDING TO THE SOUTH AFRICAN REGULATIONS FOR HAZARDOUS CHEMICAL AGENTS - 2021

### HERBITHAL 480 SC

Revised on / Version: 2/08/2022 / 0004  
 Replaces Revision of / Version: 22/07/2019/ 0003

PAGE 1 OF 11

#### SECTION 1: Product and Company Identification

##### Identification of the Product/Preparation

Product Name:	<b>HERBITHAL 480 SC</b>
Trade Name/Synonyms:	<b>HERBITHAL 480 SC</b>
Registration Number:	L7676
Product Description and Type:	A pre-emergence suspension concentrate herbicide for the control of annual grasses and certain broadleaved weeds in crops.

##### Active Ingredient

Formula:	Chlortal Dimethyl Tech 95%
CAS Number:	1861-32-1

##### Supplier

Company Name: Rolfes Agri (Pty) Ltd  
 Address: 288 Mundt Street  
 Waltloo  
 Pretoria  
 South Africa  
 Phone Number: +27(0)12 803 0145  
 E-mail Address: info@rolfesagri.co.za

##### Emergency Phone Numbers

Nature of Emergency	Emergency Operator	Telephone Number
Office hour poisoning helpline	Rolfes Agri (Pty)Ltd	+27 (12) 803 0145
Spill Response and Transport Incidents	Spill Tech, Oil and chemical pollution control	086 100 0366 083 253 6618 www.spilltech.co.za



**Relevant identified uses of the product and uses advised against**

For use in Agriculture and use as per the product label

**SECTION 2: Hazards Identification****Classification of the substance or mixture**

This product is classified as hazardous according to the criteria in South Africa - GHS classification and labelling of chemicals and the Regulations for Hazardous Chemical Agents - 2021.

**Classification**

Hazard class	Category	Hazard Statement Number
Sensitization; Skin	1	H317
Hazardous to the Aquatic Environment, Acute Hazard	3	H402

**Label Elements**

South Africa. GHS classification and labelling of chemicals and the Regulations for Hazardous Chemical Agents - 2021.

**Pictograms****Signal Word**

WARNING

**Hazard Statements**

Statement Number	Hazard Statement
H317	May cause allergic skin reaction
H402	Harmful to aquatic life

**Precautionary Statements:****General -**

Statement Number	Precautionary Statement
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.

**Prevention -**

Statement Number	Precautionary Statement
P261	Avoid breathing fume/gas/mist/vapours/spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves.

**Response -**

Statement Number	Precautionary Statement
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**HERBITHAL 480 SC**

P302 + P352	IF ON SKIN: Wash with plenty of water.
P321	Specific treatment (see first aid on this SDS).
P333 + P317	If skin irritation or rash occurs: Get medical help.
P362 + P364	Take off contaminated clothing and wash it before reuse.

**Disposal -**

Statement Number	Precautionary Statement
P501	Empty all contents from the container by placing it upside down over the spray tank and holding it there for at least 30 seconds. Puncture the rinsed container to render it useless and send to a recycler.

**Other Hazards**

None known

**SECTION 3: Composition/Information on Ingredients**

Mixture

<b>Common Name:</b>	<b>HERBITHAL 480 SC</b>
<b>IUPAC/Chemical Name:</b>	
<b>Chemical Family:</b>	
<b>Formulation:</b>	Liquid, suspension concentrate formulation

**Ingredients with Hazard Concerns (GHS)**

According to UN GHS criteria

Hazardous Component	CAS Number	Weight - %	GHS Classification
Benzisothiazolinone	2634-33-5	<10%	Skin sensitization (Category 1), Short-term (acute) aquatic hazard (Category 1) M=10
Polyalkyl naphthalene sulphonate	81065-51-2	<10%	Acute aquatic 3

**NOTE:** There are no other ingredients present according to the current knowledge of the supplier (considering their concentrations present in the product) that are classified as hazardous to health or the environment and that cause/contribute to the correct GHS classification of this product. These ingredients are therefore, in terms of the South African Hazardous Chemical Agent Regulations 2021; Regulation 14(b), not listed.

**SECTION 4: First-Aid Measures****Description of First-aid Measures**

<b>General Advice</b>	The symptoms resulting from direct exposure to the product could appear a while after exposure. If there is persistent discomfort, seek medical attention. Provide this SDS to medical personnel for treatment. Immediately remove contaminated clothing and remove the affected person from the contamination area. Keep the person warm, calm and covered up. First Aid personnel should pay attention to their own safety.
<b>Eye Contact</b>	Flush eyes with water as a precaution
<b>Skin Contact</b>	IF ON SKIN: Wash with plenty of water.

	If skin irritation or rash occurs: Get medical help. Take off contaminated clothing and wash it before reuse
<b>Inhalation</b>	Remove the affected victim from exposure to an area with fresh air as a precaution. If not breathing, administer artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Obtain immediate medical attention.
<b>Ingestion</b>	If exposed or concerned, get medical advice.

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

Symptoms of exposure to the product include skin irritation.

**Indication of any immediate medical attention and special treatment needed**

**Notes to physician:** None.

**Specific treatments:** Treat symptomatically and supportively.

## SECTION 5: Firefighting Measures

<b>Suitable (and unsuitable) extinguishing media</b>	Use carbon dioxide, dry chemical, alcohol resistant foam, or water spray. Do not use water jets.
<b>Specific hazards arising from the chemical including thermal decomposition products</b>	Fires involving the product may produce irritating or poisonous vapours, mists, or other products of combustion. Closed containers may explode from vapour expansion in high heat.
<b>Special protective equipment and precautions for fire-fighters</b>	Firefighters must wear emergency equipment including positive pressure self-contained breathing apparatus with a full-face mask. Remove unaffected containers from fire area if possible.
<b>Additional provisions</b>	Act in accordance with the site's Internal Emergency Plan and the Workplace Specific Procedures for actions to be taken after an accident or other emergencies.

## SECTION 6: Accidental Release Measures

**Personal precautions, protective equipment, and emergency procedures**

Ventilate the area of the spill or leak, especially when in confined areas.

Do not touch or walk through spilled material as slippery when spilt.

Contain spills if it can be done without risk and clean-up immediately.

Wear appropriate protective clothing recommended in Section 8 of the SDS.

**Environmental Precautions**

Prevent spillage or further leakage if safe to do so.

Do not allow the spilt product to enter water courses and drains and avoid contact with soil.

Do not allow the spilt product to spread to other areas - keep the spilt material contained and isolated.

Report spills and releases as required to appropriate authorities if the spilt product has caused environmental pollution (sewers, water ways, soil or air).

**Methods for cleaning up**

**For small spills,** soak up with damp earth or sand, or other non-Combustible absorbent material. Place into a labelled waste container subsequent reclamation or disposal. Keep the

wash water out of drains, sewers, and waterways.

**For large spills**, contain the spillage with absorbent material (non-combustible for flammable products). Sweep up with absorbent material, contain and collect spilt product in suitable containers for proper disposal. Keep the wash water out of drains, sewers and waterways.

#### Reference to other sections

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

## SECTION 7: Handling and Storage

#### Precautions for safe handling

Always provide good ventilation in the work area. Prevent contact with eyes, skin and clothing. Do not breathe in dust/vapours/spray mists. Wear protective clothing and equipment during handling as described in Section 8 of the SDS.

Do not eat or drink during use. Wash the hands and face thoroughly with soap after handling. Keep containers closed when not in use. Do not permit smoking in use or storage areas.

Locate emergency showers and eye-rinsing facility near the work/handling area. Maintain good normal industrial hygiene and housekeeping practices in areas where the product is used/handled.

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

Always store locked up and keep containers tightly closed when not in use. Store in a cool, dry and well-ventilated place, out of direct sunlight. Check storage containers regularly for leaks and protect containers from physical damage. Store in the original container, avoid cross contamination with other agricultural products. Keep out of reach of children, uninformed persons, and animals. Do not contaminate water, food, or feed by storage or disposal.

It is recommended to have appropriate spill control kits equipped with absorbent material in close proximity to storage areas (see Section 6).

#### Specific end use(s)

Use as directed. Use original container.

## SECTION 8: Exposure Controls and Personal Protection

#### National Occupational Exposure Limits – Restricted limits for hazardous chemical agents

Component	Type	Control Parameter	Update	Basis
Not applicable	OEL-eight hour TWA	N/A	2021	South African RELs*
	OEL-STEL/C	N/A	2021	South African RELs*

\*REL:

OEL-eight hour TWA:

Recommended Exposure Limit.

Occupational Exposure Limit- Time Weighted Average. Calculated over an eight-hour working day, for a five-day working week.

OEL-STEL/C: Occupational Exposure Limit – short Term Exposure Limit /Ceiling Limit. Peak airborne concentration determined over the shortest analytically practicable period of time, which does not exceed 15 minutes.

#### National Biological Exposure Indices (BEIs) for hazardous chemical agents

Component	Sample Matrix	Sample Time	Value
Not applicable	N/A	N/A	N/A

#### Appropriate engineering controls

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### Personal Protective Equipment

<b>Respiratory Protection</b>	Respiratory protection selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted and well-maintained particulate filter respirator, complying with an approved standard. Respirator selection and use should be based on contaminant type, form and concentration. For emergency conditions, use an approved positive-pressure self-contained breathing apparatus.
<b>Skin and Hand Protection</b>	Select skin and hand protection based on the task being performed and the risks involved with the task. The gloves should be replaced immediately in case of damage or signs of wear. The personal protective clothing must be properly fitted and well maintained
<b>Eye/Face Protection</b>	Select safety eye/face protection based on the task being performed and the risks involved with the task. Wear tightly fitted and well-maintained safety eyewear compliant with an approved standard.
<b>Hygiene Measures</b>	Wash the hands and/or face before breaks, eating, smoking, or using the lavatory and at the end of the shift/working period. Eye wash fountains and safety showers should be available and easily accessible. Wash contaminated clothing before reuse.

#### Environmental exposure controls

In accordance with the local legislation for the protection of the environment it is recommended to avoid environmental spillage or releases of both the product and its container.

### SECTION 9: Physical and Chemical Properties

Data applicable to mixture

<b>Appearance</b>	Appearance/physical state	Liquid, suspension concentrate formulation
	Odour characteristics	Slight odour
	Colour	Off-white
<b>Volatility</b>	Boiling point (°C)	Not measured
	Vapour pressure (Pa)	Not measured

**HERBITHAL 480 SC**

	Evapouration Rate at 20 °C	Not measured
<b>Product Description</b>	Relative density (kg/m <sup>3</sup> , relative density of water =1)	1.205 (g/cm <sup>3</sup> )
	Solubility in water (g/100mL)	Water based
	Decomposition temperature (°C)	Not applicable- liquid
	Melting point/freezing point (°C)	Not applicable- liquid
	pH	6.0-7.5
	Density/relative density(g/cm <sup>3</sup> )	1.205 (g/cm <sup>3</sup> )
	Particle characteristics	Liquid
<b>Flammability</b>	Flammable (Y/N)	N
	Flash point (°C)	Not applicable – water based
	Flammable limits-LEL	Not flammable
	Auto-ignition Temperature (°C)	Not flammable

\*Not relevant due to the nature of the product, not providing information property of its hazards.

**Other Hazard Information**

None Known.

**SECTION 10: STABILITY AND REACTIVITY****Reactivity**

The product is stable under normal ambient conditions.

**Chemical Stability**

Stable under normal ambient conditions of use, storage and transport.

**Possibility of Hazardous Reactions**

None known under conditions of normal use.

**Conditions to Avoid**

Avoid extreme temperatures ( >50°C). Keep away from heat and ignition sources.

**Incompatible Materials**

Incompatible with: Avoid strong oxidizing agents and acids.

**Hazardous Decomposition Products**

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

**SECTION 11: Toxicological Information****Information on likely routes of exposure****Toxicokinetics, metabolism and distribution**

Non-human toxicological data: No Information available.

Method: No Information available.

Dosage: No Information available.

Routes of administration: No Information available.

Results: No Information available.

Absorption: No Information available.

Distribution: No Information available.  
Metabolism: No Information available.  
Excretion: No Information available.

**Information on toxicological effects**

Acute oral toxicity: Does not meet the GHS Classification criteria.  
Acute dermal toxicity: Does not meet the GHS Classification criteria.  
Acute inhalation toxicity: Does not meet the GHS Classification criteria.  
Skin corrosion/irritation: Does not meet the GHS Classification criteria.  
Serious eye damage/irritation: Does not meet the GHS Classification criteria.  
Respiratory or skin sensitization: Benzisothiazolinone <10%  
Danger! This substance may cause an allergic skin reaction.  
Category 1.  
Germ cell mutagenicity: Does not meet the GHS Classification criteria.  
Carcinogenicity: Does not meet the GHS Classification criteria.  
Reproductive toxicity: Does not meet the GHS Classification criteria.  
STOT-single exposure: Does not meet the GHS Classification criteria.  
STOT-repeated exposure: Does not meet the GHS Classification criteria.  
Aspiration hazard: Does not meet the GHS Classification criteria.

**Symptoms related to the physical, chemical, and toxicological characteristics**

No information available.

**SECTION 12: Ecological Information**

**Ecotoxicity**

Short-term (Acute) hazard Aquatic: Benzisothiazolinone <10% and Polyalkyl naphtalene sulphonate <10%.

Danger! This substance is very toxic to aquatic life.

Category 3.

Long-term (Chronic) hazard Aquatic: Does not meet the GHS Classification criteria.

Bio-degradability in the aquatic environment: No information available.

**Toxicity to other species**

Birds: No information available.

Bees: No information available.

**Other Environmental and Adverse Effects**

**Persistence and Degradability**

No information available.

**Bioaccumulative Potential:**

No information available.

**Mobility in Soil:**

No information available.

**Other Adverse Effects:**

None known.

**SECTION 13: Disposal Considerations**



**Waste handling and disposal**

Dispose product related waste in accordance with all local regulations and prevent the contamination of water, food, or feed by storage or disposal of the waste.

**General container handling**

Empty all contents from the container by placing it upside down over the spray tank and holding it there for at least 30 seconds. Puncture the rinsed container to render it useless and send to a recycler. Do not use empty containers for any other purpose.

**SECTION 14: Transport Information**

	<b>Land Transport (ADR/RID)</b>	<b>Inland Waterways (AND/ADNR)</b>	<b>Sea Transport (IMDG)</b>	<b>Air Transport (ICAO-TI / IATA-DGR)</b>
<b>UN Number</b>	Not regulated	Not regulated	Not regulated	Not regulated
<b>UN Proper Shipping Name</b>	-	-	-	-
<b>Transport Hazard Class</b>	-	-	-	-
<b>Transport Hazard Class Pictogram</b>	-	-	-	-
<b>Packing Group</b>	-	-	-	-
<b>Environmental Hazard</b>	-	-	-	-

\*Not classified as dangerous goods

**SECTION 15: Regulatory Information****Safety, health, and environmental regulations/legislation for the mixture.****South Africa**

Regulations for Hazardous Chemical Agents – 2021 – SA Occupational Health and Safety Act. - Handling, labelling and Safety Data Sheets for hazardous and GHS classified substances and mixtures. Occupational Exposure Limits.

Hazardous Substances Act, 1973 (Act No.15 of 1973) - Requirements on the prohibition and control of the importation, manufacture, sale, use, operation, application, modification, disposal or dumping of hazardous substances.

Occupational Health and Safety Act No. 85 of 1993.- Occupational Health and Safety Standards for employers and users working with and around hazardous chemical substances.

National Road Traffic Act, 1996 (ACT NO. 93 of 1996). - The identification and classification of dangerous goods for transport by road and rail modes.

**Botswana**

Pesticides and Toxic Substances Regulations. 1994 (2006) - Control and management of

pesticides and other toxic substances.

Environmental and Pollution Control Act. 1990 - Hazardous waste disposal, hazardous substances, pesticides, and effluent wastewater/discharge.

### **Namibia**

Labour Act 11 of 2007 - Hazardous substances classification, labelling, Chemical Safety Data Sheets and Occupational Exposure Limits. Notification of the use of carcinogens and other controlled substances.

Regulations relating to the Health and Safety of Employees at Work Government Notice 156 of 1997. Labour Act 11 of 2007 schedule, item 2(2). - Occupational Health and Safety Standards for employers and users working with and around hazardous chemical substances.

## **SECTION 16: Other Information**

### **Indication of changes**

Alignment to the GHS.

### **Relevant classification and H-Statements (Number and full text):**

Sensitization; Skin- Category 1

H317: May cause allergic skin reaction

Hazardous to the Aquatic Environment, Acute Hazard – Category 3

H402: Harmful to aquatic life

### **Key to Abbreviations**

AND	European Provisions concerning the International Carriage of Dangerous Goods by inland Waterways
ADR	The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
COD	Chemical Oxygen Demand
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
IATA	International Air Transport Association
ICAO	International Civil Aviation Organisation
IMDG	International Maritime Dangerous Goods
Log <sub>POW</sub>	Logarithm of the octanol/water partition coefficient
LD50	Lethal Dose 50
LC50	Lethal Concentration 50
RID	The Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
UN	United Nations

### **Notice to Reader**

The information contained in this Safety Data Sheet relate only to the specific product and do not relate to the use of the product in combination with any other product or process. Information in the SDS is supplied to the best of **ROLFES AGRI (PTY) LTD's** knowledge and are believed to be current and correct as of the date on this SDS. 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 applicable to the health, safety and environmental hazards of this product at the date of issue in order to facilitate the safe use, handling,

storage and transport of this product and does not replace any product information or product specifications.

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**END OF SAFETY DATA SHEET**