



## SAFETY DATA SHEET

### APACHI 480 SC

SDS/GHS/Gen/Ver 2

Issue date: 09.07.2021

#### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

##### Product identifiers

Product name: Apachi 480 SC  
Chemical name: contains Metribuzin  
CAS No.: 21087-64-9

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

Identified uses: Herbicide for agricultural use

##### Details of the supplier of the safety data sheet

Supplier: Hallmark Chemicals b.v  
Wilhelminakade 91  
3072 AP Rotterdam  
The Netherlands  
Tel: +31 10 414 4277  
Fax: +31 10 414 3023  
[info@hallmarkchem.com](mailto:info@hallmarkchem.com)

##### Emergency telephone number

Tel: +44 20 8995 8391 (SDS support, 9.00-5.00 pm; Mon-Fri only, UK)

#### SECTION 2: HAZARDS IDENTIFICATION

Aquatic Chronic 1



##### Pictogram(s):

Signal word: Warning

##### Hazard statement(s):

**H400:** Very toxic to aquatic life  
**H410:** Very toxic to aquatic life with long lasting effects

##### Precautionary statement(s):

**P273:** Avoid release to the environment  
**P391:** Collect Spillage  
**P501:** Dispose of contents/container in accordance with local/regional regulations.



## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS Number	Concentration (g/L)	Signal Word	H-statements
Metribuzin	21087-64-9	480	Warning	H302, H400, H410
Ethoxylated polyaryphenol	105362-407	<50	-	H412

## SECTION 4: FIRST AID MEASURES

If poisoning occurs, immediately contact a doctor or a Poisons Helpline and follow the advice given. Show this product label or the Safety Data to the doctor.

**IF SWALLOWED:** Seek medical attention. DO NOT induce vomiting. Never give anything by mouth to an unconscious person

**IF INHALED:** Remove person to fresh air and keep comfortable for breathing. Keep warm and at rest. Seek medical attention.

**ON SKIN CONTACT:** Remove immediately all contaminated clothing. Wash skin immediately with water, followed by soap and water to minimize product contact with skin. Wash contaminated clothing before wearing again. If concerned: Seek medical attention.

**IF IN EYES:** Rinse gently with water for 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists: Seek medical attention.

**Treatment:** No specific antidote. Treat symptomatically.

## SECTION 5: FIRE FIGHTING MEASURES

**Suitable Extinguishing media:** Carbon dioxide (CO<sub>2</sub>)

Dry powder  
Dry sand  
Water spray  
Foam

**Unsuitable Extinguishing media:** High volume water jet

**Special hazards arising from the substance or mixture**

Hazardous combustion products: Product itself is not combustible (Product contains water)

**Advice for fire-fighters:** In the case of fire, wear respiratory protective equipment independent of surrounding air and chemical protective suit

**Further Information:** Containers exposed to heat (fire) may build up pressure. Use water spray to cool containers. Prevent fire extinguishing water from contaminating surface water or the ground water system.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Wear suitable personal protection (PPE) during removal of spillages (see section 8). Stop spills if safe to do so.



**Environmental precautions:** Do not flush into water sources, drains or sewage systems. If product enters sewage or contaminates water sources, inform the relevant authorities.

**Clean up methods:** Absorb spill with a non-combustible absorbent material, such as sand, earth or diatomaceous earth. Shovel into well labelled, sealed, suitable containers. For large spills it may be necessary to dyke spill area to prevent contamination of drains and waterways.

## SECTION 7: HANDLING AND STORAGE

### Precautions for Safe Handling:

**Advice on Safe handling:** For professional use only.  
Use only in well-ventilated areas

**Advice on protection against fire and explosion:**  
Not flammable under normal conditions of use. The product does not sustain combustion.

**Hygiene measures:** Avoid contact with eyes and skin.  
Avoid breathing vapour or spray or aerosol.  
Take off contaminated clothing and shoes immediately.  
Wash contaminated clothing before re-use.  
Do not eat, drink or smoke while working.  
Keep away from food, drink and animal feeding stuffs.  
Wash hands and face before breaks and when workday is finished.

### Conditions for safe storage, including any incompatibilities

**Requirements for storage areas and containers:**  
Store in the closed original container, in a cool, dry, well-ventilated area, away from direct sunlight. Protect from frost.

Keep original containers, tightly closed, out of sight and reach of children.

**Incompatibilities:** Incompatible with acids and bases.

## SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Occupational Exposure limits:

Ingredient	Exposure limit	Time period
Metribuzin	5 g/m <sup>3</sup>	8 hr TWA

Time weighted average (TWA): is the average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week

**Engineering controls:** Use only in well-ventilated areas. If necessary, use local exhaust ventilation to keep airborne concentration below exposure limits.

**Personal protective equipment:** Wear face shield or goggles with chemical splash protection.  
Wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and a washable hat, heavy-duty shoes



or boots.

Wear elbow length chemical resistant nitrile or neoprene rubber gloves.

If working in a poorly ventilated area or if occupational exposure levels are likely to be exceeded, wear a respirator with filter for vapours.

After each day's use, wash gloves, goggles or face shield, respirator if worn, and contaminated clothing.

Do not re-enter treated areas without protective clothing until spray residue has dried.

## SECTION 9: PHYSICAL / CHEMICAL PROPERTIES

- |  |  |
|--|--|
| a) Appearance:                                   | White liquid suspension  |
| b) Odour:  | Musty  |
| c) Melting point/freezing point:                 | 126°C (tech.)  |
| d) Boiling point/boiling range:                  | Decomposes before boiling (tech.)                                    |
| e) Flammability (solid/gas):                     | not flammable  |
| f) Upper/lower flammability or explosive limits: | n/a  |
| g) Flash point:                                  | Does not flash   |
| h) Auto-ignition temperature:                    | not determined   |
| i) Decomposition temperature:                    | 125°C (tech.)  |
| j) pH:   | 6 – 7  |
| ) Kinematic Viscosity:                           | not determined   |
| k) Solubility:                                   | 1.05 g/l (20°C) (water, tech.)                                       |
| l) Partition coefficient:                        | Log P <sub>ow</sub> 1.6 (tech.)                                      |
| m) Vapour pressure:                              | 0.121 mPa (20°C) (tech.)   |
| n) Relative density:                             | 1.1 – 1.2 g/mL (20°C)  |
| o) Vapour density:                               | 2.00 X 10 <sup>-05</sup> Pa m <sup>3</sup> mol <sup>-1</sup> (tech.) |
| p) Particle Characteristics:                     | not determined   |
| q) Explosive properties:                         | Not explosive  |
| r) Oxidising properties:                         | Not an oxidiser  |

## SECTION 10: STABILITY AND REACTIVITY

**Reactivity** Corrosion to metals: Corrosive effects to metal are not anticipated.

**Chemical stability** The product is stable if stored and handled as prescribed/indicated.

### Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions.  
Hazardous polymerisation will not occur.

**Conditions to avoid** Direct sunlight/UV exposure. Avoid heat sources and extreme temperatures.

**Incompatible materials** Strong oxidisers, alkalis.

### Hazardous decomposition

**Products:** Does not decompose at ambient temperature. Combustion or thermal decomposition will evolve toxic and irritant vapours.

## SECTION 11: TOXICOLOGICAL INFORMATION

<b>Oral toxicity:</b>	LD <sub>50</sub> rat >2,500 mg/kg (GHS category 5)
<b>Acute Dermal:</b>	LD <sub>50</sub> rat >4,000 mg/kg (GHS category 5)
<b>Inhalation toxicity:</b>	LC <sub>50</sub> (4h rat) >0.65 mg/l air (tech.)
<b>Skin irritation:</b>	Not an irritant



**Eye irritation:** Not an irritant  
**Skin sensitisation:** Not a skin sensitiser  
(Based on comparable formulation)

## Chronic Effects

**Germ cell mutagenicity:** Not classified as a mutagen.  
**Carcinogenicity:** Not classified as a carcinogen  
**Reproductive toxicity:** Not classified as a reproductive toxin.  
**Chronic toxicity:** No evidence of long-term chronic effects.

## SECTION 12: ENVIRONMENTAL INFORMATION

(technical material)

**Bird toxicity:** LD<sub>50</sub> Bobwhite quail 168 mg/kg  
**Fish toxicity:** LC<sub>50</sub> (96h) Rainbow trout 76 ppm  
**Daphnia toxicity:** LC<sub>50</sub> *Daphnia magna* (48h) 49 mg/l  
**Algal toxicity:** EC<sub>50</sub> 72 h *Scenedesmus subspicatus* 0.02 mg/L

## Persistence and Biodegradability

**Bioaccumulation:** Metribuzin is not bioaccumulative  
**Stability in water:** Stable to hydrolysis, but degrades rapidly due to photolysis  
**Stability in soil:** Not persistent in soil  
**Mobility in soil:** Mobile in soil

## SECTION 13: DISPOSAL CONSIDERATIONS

### Waste treatment methods

**Product:** Dispose of waste product through an official waste contractor.  
Obtain advice from local waste regulation authority.

**Contaminated packaging:** Triple- or pressure-rinse containers before disposal. Add rinsings to spray tank. Do not let contaminated water enter surface or ground water systems.  
Do not dispose of undiluted chemicals on-site.  
Do not burn empty containers. Recycle, or return to supplier through local schemes if applicable. Disposal should be in accordance with local, state or national legislation.

## SECTION 14: TRANSPORTATION INFORMATION

	ADR/RID	IMDG	IATA
<b>UN Number</b>	UN 3082		
<b>UN Proper Shipping Name</b>	Environmentally hazardous substance, liquid, N.O.S. (contains metribuzin)		
<b>Transport Hazard Class</b>	9	9	9

# Hallmark Chemicals bv

Wilhelminakade 91, 3072 AP Rotterdam, the Netherlands

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Fax: +31 10 414 30 23

Email: info@hallmarkchem.com



<b>Packaging Group</b>	III	III	III
<b>Environmental Hazard</b>	Yes	Marine Pollutant	Yes

When shipped in single or inner packaging not exceeding 5 LTS or 5 kg, SP A197 (IATA) or SP 375 (ADR/RID) will apply.

When shipped by sea (IMDG) the following clause applies:

**Exemption under IMDG clause 2.10.2.7** Marine pollutants packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids are not subject to any other provisions of this Code relevant to marine pollutants provided the packagings meet the general provisions of **4.1.1.1**, **4.1.1.2** and **4.1.1.4** to **4.1.1.8**.

## SECTION 15: REGULATORY INFORMATION

No additional regulatory information required for this product.

## SECTION 16: OTHER INFORMATION

### H-Statements in full:

H302	Harmful if swallowed
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

No liability is accepted for any injury, loss, damage or cost arising directly or indirectly from the use of the product or from the use of information contained within the safety data sheet since the customer's handling of the product is necessarily beyond our control. The supplied data are based on current knowledge and experience. This safety data sheet is intended to describe our product in terms of safety requirements. The customer should determine by appropriate trials that the product is suitable for his intended use.

Sections 9, 11 and 12 based on available EU and Almandine SA Corporation data

Self-classification of mixture

SDS version: X

Previous version: 09/07/2021

Changes to sections from previous version: Minor changed throughout