



# SAFETY DATA SHEET

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH), as amended by UK REACH Regulations SI 2019/758

## Shotput

Revision date 11-Apr-2025

Version 3 Supersedes Date: 12-May-2022

Product Code(s)

HRB00978-44

Print Date 11-Apr-2025

FSG 01094 H-1

23074

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

### 1.1. Product identifier

## Shotput

#### Other means of identification

Synonyms

Metribuzin 70 WG

Pure substance/mixture

Mixture

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

Recommended use

Herbicide; Professional use

Uses advised against

No information available

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

#### Supplier

ADAMA Agricultural Solutions UK Ltd

Third Floor East

1410 Arlington Business Park

Theale

READING

RG7 4SA

Tel: 01635 860555

Fax: 01635 861555

For further information, please contact

E-mail address

ukenquiries@adama.com

### 1.4. Emergency telephone number

Emergency Telephone

UK: National Chemical Emergency Centre:

Tel: 01856 407333 (24 hours, 7 days a week)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

Specific target organ toxicity — repeated exposure	Category 2 - (H373)
Acute aquatic toxicity	Category 1 - (H400)
Chronic aquatic toxicity	Category 1 - (H410)

### 2.2. Label elements

**Labelling according to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567**

Contains Metribuzin

**Hazard pictograms****Signal word**

Warning

**Hazard statements**

H373 - May cause damage to organs through prolonged or repeated exposure  
 H410 - Very toxic to aquatic life with long lasting effects

**Precautionary Statements**

P102 - Keep out of reach of children  
 P260 - Do not breathe dust/fume/gas/mist/vapours/spray  
 P501 - Dispose of contents/ container to an approved waste disposal plant

**EU Specific Hazard Statements**

EUH208 - Contains ( disodium maleate ). May produce an allergic reaction  
 EUH401 - To avoid risks to human health and the environment, comply with the instructions for use

**Additional phrases for PPP**

SP1 - Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).

**2.3. Other hazards****PBT & vPvB**

The product does not contain any substance(s) classified as PBT or vPvB.

**Endocrine Disruptor Information**

None known.

**Persistent Organic Pollutants**

Not applicable.

**SECTION 3: Composition/information on ingredients****3.1 Substances**

Not applicable

**3.2 Mixtures**

Chemical name	CAS No	EC No	Index No	Weight-%	Classification according to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567	Specific concentration limit (SCL)	M-Factor	REACH Registration Number
Metribuzin	21087-64-9	244-209-7	606-034-00-8	66-74	Acute Tox. 4 (H302) STOT RE 2 (H373) (blood system)		ATE = 320 mg/kg bw M=10 M=10	No data available

					Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)			
Reaction product of naphthalene, propan-2-ol,sulfonated and neutralized by caustic soda	-	939-368-0		1-3	Acute Tox. 4 (H302) Acute Tox. 4 (H332) Eye Dam. 1 (H318) STOT SE 3 (H335)			01-211996995 4-16-0000
disodium maleate	371-47-1	206-738-1		<2	Acute Tox. 4 (H302) Skin Sens. 1B (H317) STOT SE 3 (H335)			No data available
Citric acid monohydrate	5949-29-1	-		<2	Eye Irrit. 2 (H319) STOT SE 3 (H335)			No data available
Quartz	14808-60-7	238-878-4		<1	STOT RE 2 (H373)			No data available
Toluene	108-88-3	203-625-9	601-021-00-3	<0.01	Skin Irrit. 2 (H315) Repr. 2 (H361d) STOT SE 3 (H336) STOT RE 2 (H373) Asp. Tox. 1 (H304) Flam. Liq. 2 (H225)			01-211947131 0-51

Acute toxicity estimates (ATEs) according to Part 3 of Annex VI to Regulation (EC) No 1272/2008 are indicated in this table, if available

Full text of H- and EUH-phrases: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>General advice</b>	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). First aider: Pay attention to self-protection.
<b>Inhalation</b>	Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a doctor.
<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a doctor.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a doctor if necessary.
<b>Ingestion</b>	Rinse mouth. Drink plenty of water. If symptoms persist, call a doctor.
<b>Self-protection of the first aider</b>	Use personal protective equipment as required.

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

Symptoms None known.

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

Note to doctors Treat symptomatically.

**SECTION 5: Firefighting measures****5.1. Extinguishing media**

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

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

Specific hazards arising from the chemical No information available.

**5.3. Advice for firefighters**

Special protective equipment for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Personal precautions Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas.

Other information Refer to protective measures listed in Sections 7 and 8.

For emergency responders Use personal protection recommended in Section 8.

**6.2. Environmental precautions**

Environmental precautions See Section 12 for additional Ecological Information.

**6.3. Methods and material for containment and cleaning up**

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

**6.4. Reference to other sections**

Reference to other sections See section 8 for more information. See section 13 for more information.

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

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

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place.

**7.3. Specific end use(s)**

**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Exposure Limits**

Chemical name	United Kingdom
Kaolin 1332-58-7	TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>
Quartz 14808-60-7	TWA: 0.1 mg/m <sup>3</sup>
Toluene 108-88-3	TWA: 50 ppm TWA: 191 mg/m <sup>3</sup> STEL: 100 ppm STEL: 384 mg/m <sup>3</sup> Sk*

**Derived No Effect Level (DNEL)** No information available.

**Predicted No Effect Concentration (PNEC)** No information available.

**8.2. Exposure controls**

**Engineering controls** Ensure adequate ventilation, especially in confined areas.

**Personal protective equipment**  
**Eye/face protection** Tight sealing safety goggles.

**Hand protection** Suitable chemical resistant gloves (EN 374) also with prolonged, direct contact (recommendation: protection index 6, corresponding > 480 minutes Permeability time (permeation) according to EN 374): e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm).

**Skin and body protection** Use suitable protective clothing and equipment if required, such as safety goggles certified to EN 166, gloves certified to EN 374, protective boots certified to EN 13832, and/or a water repellent woven coverall with 65% polyester and 35 % cotton.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls** Do not allow into any sewer, on the ground or into any body of water. Local authorities should be advised if significant spillages cannot be contained.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Property	Values	Method	Remarks
Appearance			
Physical state	: Solid		
Colour	: beige		
Odour	: chemical		
Odour threshold	: No data available		
pH	: 8.7 - 9.7	CIPAC MT 75.3	1 %
Melting point / freezing point °C	: ----		Not applicable
Boiling point / boiling range °C	: ----		Not applicable
Flash point °C	: ----		Not Applicable
Evaporation rate	: No data available		
Flammability (solid, gas)	: Not highly flammable	EEC A.10	
Upper/lower flammability or explosive limits	: No data available		
Vapour pressure kPa	: ----		Not applicable
Vapour density	: No data available		
Relative density	: ----		Not applicable
Solubility(ies) mg/l	: ----		Not applicable
Partition coefficient Log Pow	:		See Section 12 for additional Ecological Information
Autoignition temperature °C	: > 400	EEC A.16	
Decomposition temperature °C	: ----		No data available
Kinematic viscosity mm <sup>2</sup> /s 40 °C	: ----		Not applicable
Surface tension	: ----		Not applicable
Particle Size	: Not applicable		

### 9.2. Other information

Bulk density g/ml : 0.48-0.58 CIPAC MT 186

#### 9.2.1. Information with regards to physical hazard classes

Explosive properties : Not an explosive  
Oxidising properties : Not oxidizing

#### 9.2.2. Other safety characteristics

No information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity No information available.

### 10.2. Chemical stability

Stability Stable under normal conditions.

#### Explosion data

Sensitivity to mechanical impact None.  
Sensitivity to static discharge None.

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

**10.4. Conditions to avoid**

**Conditions to avoid** None known based on information supplied.

**10.5. Incompatible materials**

**Incompatible materials** None known based on information supplied.

**10.6. Hazardous decomposition products**

**Hazardous decomposition products** No decomposition products expected under normal conditions of use.

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity**

	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
<b>Oral LD50 mg/kg</b>	: > 2000	Rat	OECD 423	Maximum attainable concentration
<b>Dermal LD50 mg/kg</b>	: > 2000	Rat	OECD 402	
<b>Inhalation LC50 mg/l</b>	: > 4.8	Rat	OECD 403	
<b>Skin corrosion/irritation</b>	: Non-irritating to the skin	Rabbit	OECD 404	
<b>Serious eye damage/eye irritation</b>	: Not irritating to eyes	Rabbit	OECD 405	
<b>Sensitisation</b>	: Not a skin sensitiser	Guinea pig	OECD 406	

**Chronic toxicity****Germ cell mutagenicity**

**Chemical name**  
Metribuzin : Not classified

**Carcinogenicity**

**Chemical name**  
Metribuzin : Not Carcinogenic

**Reproductive toxicity**

**Chemical name**  
Metribuzin : Not toxic for the reproductive system  
Toluene : H361d - Suspected of damaging the unborn child

**STOT - Single Exposure**

**Chemical name**  
Metribuzin : Not classified  
Toluene : H336 - May cause drowsiness or dizziness

**STOT - Repeated Exposure**

**Chemical name**  
Metribuzin : H373 - May cause damage to organs through prolonged or repeated exposure  
Toluene : H373 - May cause damage to organs through prolonged or repeated exposure

**Aspiration hazard**

**Chemical name**  
Metribuzin : Not classified  
Toluene : H304 - May be fatal if swallowed and enters airways

**STOT - repeated exposure** May cause damage to organs through prolonged or repeated exposure.

## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

### 11.2.2. Other information

**Other adverse effects** No information available.

## SECTION 12: Ecological information

### 12.1. Toxicity

<u>Acute toxicity</u>	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
<b>Fish 96-hour LC50 mg/l</b>	: > 100	Oncorhynchus mykiss	OECD 203	
<b>Crustacea 48-hour EC50 mg/l</b>	: > 100	Daphnia magna	OECD 202	
<b>Algae 72-hour EC50 mg/l</b>	: 0.0867	D. Subspicatus	OECD 201	
<b>Other plants EC50 mg/l</b>	: ----			No data available

<u>Chronic aquatic toxicity</u>	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
<b>Fish NOEC mg/l</b>	: No data available			
<b>Crustacea NOEC mg/l</b>	: No data available			
<b>Algae NOEC mg/l</b>	: No data available			
<b>Other plants NOEC mg/l</b>	: No data available			

### Terrestrial Toxicity

**Birds Oral LD50 mg/kg**

**Chemical name**

Metribuzin : 164

**Bees Oral LD50 µg/bee**

**Chemical name**

Metribuzin : 166

### 12.2. Persistence and degradability

#### Abiotic Degradation

**Water DT50 days**

**Chemical name**

Metribuzin : 31.1-52.6

**Soil DT50 days**

**Chemical name**

Metribuzin : 5.3-17.3

#### Biodegradation

**Chemical name**

Metribuzin : No data available

### 12.3. Bioaccumulative potential

**Partition Coefficient**

**(n-octanol/water) Log Pow**

**Chemical name**

Metribuzin : <3

**Bioconcentration factor (BCF)**

**Chemical name**

Metribuzin : Not available

### 12.4. Mobility in soil

**Adsorption/Desorption**

Values

Method

Remarks



**Chemical name**

Metribuzin

: 3.14-81.5

KOC

**Endocrine Disruptor Information****12.5. Results of PBT and vPvB assessment**

The components in this formulation do not meet the criteria for classification as PBT or vPvB

**12.6. Endocrine disrupting properties**

**Endocrine disrupting properties** No information available.

**12.7. Other adverse effects**

No information available.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Waste from residues/unused products**

Dispose of waste in accordance with environmental legislation. Dispose of in accordance with local regulations.

**Contaminated packaging**

Improper disposal or reuse of this container may be dangerous and illegal.

**Other information**

Waste codes should be assigned by the user based on the application for which the product was used.

**SECTION 14: Transport information****ADR****14.1 UN number**

UN3077

**14.2 UN proper shipping name**

Environmentally hazardous substances, solid, n.o.s. (Metribuzin)

**14.3 Transport hazard class(es)**

9

**14.4 Packing group**

III

**Description**

UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Metribuzin), 9, III, (-)

**14.5 Environmental hazard**

Yes

**14.6 Special Precautions for Users****Special Provisions**

274, 335, 601, 375

**Classification code**

M7

**Tunnel restriction code**

(-)

**RID****14.1 UN number**

UN3077

**14.2 UN proper shipping name**

Environmentally hazardous substances, solid, n.o.s. (Metribuzin)

**14.3 Transport hazard class(es)**

9

**14.4 Packing group**

III

**Description**

UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Metribuzin), 9, III

**Environmental hazard**

Yes

**Special Precautions for Users****14.5 Environmental hazard**

Yes

**14.6 Special Precautions for Users****Special Provisions**

274, 335, 375, 601

**Classification code**

M7

**IMDG****14.1 UN number**

UN3077

**14.2 UN proper shipping name**

Environmentally hazardous substances, solid, n.o.s. (Metribuzin)

**14.3 Transport hazard class(es)**

9

**14.4 Packing group**

III

<b>Description</b>	UN3077, Environmentally hazardous substances, solid, n.o.s. (Metribuzin), 9, III, Marine pollutant
<b>14.5 Environmental hazard</b>	Yes
<b>14.6 Special Precautions for Users</b>	
<b>14.5 Marine pollutant</b>	P
<b>Environmental hazard</b>	Yes
<b>14.6 Special Precautions for Users</b>	
<b>Special Provisions</b>	274, 335, 966, 967, 969
<b>EmS-No</b>	F-A, S-F
<b>IMDG Stowage and segregation</b>	Category A SW23 No information available
<b>14.7 Maritime transport in bulk according to IMO instruments</b>	No information available

**IATA**

<b>14.1 UN number</b>	UN3077
<b>14.2 UN proper shipping name</b>	Environmentally hazardous substances, solid, n.o.s. (Metribuzin)
<b>14.3 Transport hazard class(es)</b>	9
<b>14.4 Packing group</b>	III
<b>Description</b>	UN3077, Environmentally hazardous substances, solid, n.o.s. (Metribuzin), 9, III
<b>14.5 Environmental hazard</b>	Yes
<b>14.6 Special Precautions for Users</b>	
<b>Special Provisions</b>	A97, A158, A179, A197, A215
<b>ERG Code</b>	9L



\* Note: UN3077 & UN3082 – These products may be transported as non-dangerous goods under the special provisions of IMDG Code 2.10.2.7; ADR SP375 and ICAO/IATA A197 when packed in single or inner packaging of up to 5L for liquids or 5 kg or less for solids

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National regulations

Trade name / designation	Registration Number(s)	Date
Not Applicable	Not Applicable	Not Applicable

#### European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

#### Authorisations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorisation per REACH Annex XIV
Toluene - 108-88-3	48.	

#### Persistent Organic Pollutants

Not applicable

## 15.2. Chemical safety assessment

### Chemical Safety Report

A risk assessment was performed according to directive (EC) No. 91/414 or according to regulation (EC) No. 1107/2009

## SECTION 16: Other information

### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Full text of H-Statements referred to under section 3

H225 - Highly flammable liquid and vapour  
H302 - Harmful if swallowed  
H304 - May be fatal if swallowed and enters airways  
H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H318 - Causes serious eye damage  
H319 - Causes serious eye irritation  
H332 - Harmful if inhaled  
H335 - May cause respiratory irritation  
H336 - May cause drowsiness or dizziness  
H361d - Suspected of damaging the unborn child  
H373 - May cause damage to organs through prolonged or repeated exposure  
H400 - Very toxic to aquatic life  
H410 - Very toxic to aquatic life with long lasting effects

#### Legend

SVHC: Substances of Very High Concern for Authorisation:

#### Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Revision date 11-Apr-2025

#### Reason for revision

Further information This material safety data sheet complies with the provisions of Regulation (EC) No 1907/2006, as amended by Regulation (EU) 2020/878.

#### Abbreviations and acronyms

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road  
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
CAS Number - Chemical Abstracts Service number  
EC Number - EINECS and ELINCS Number  
EINECS - European Inventory of Existing Commercial Substances  
ELINCS - European List of notified Chemical Substances  
IATA - International Air Transport Association  
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air  
IMDG - International Maritime Dangerous Goods  
LC50 - Lethal Concentration to 50 % of a test population  
LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)  
OECD - Organization for Economic Co-operation and Development  
PBT - Persistent, Bioaccumulative and Toxic substance  
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail  
STOT - Specific Target Organ Toxicity  
vPvB - Very Persistent and Very Bioaccumulative

**Classification according to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567****Classification of the mixture**

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H373 - May cause damage to organs through prolonged or repeated exposure

**Classification procedure**

Classification based on test data

Classification based on Calculation method

Classification based on Calculation method

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006****Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**