

# **SAFETY DATA SHEET**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

**Shotput** 

Revision date 12-May-2022 Version 2 Supersedes Date: 15-Oct-2017

Product Code(s) HRB00978-44 23074

**Print Date** 12-May-2022 ADM.5000.H.2.A

# 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

<u>Supplier</u> 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** National Chemical Emergency Centre (UK):

Tel: 01865 407333 (24 hours)

National Poisons Information Centre (Republic of Ireland)

Tel: 01 809 2166 (8am – 10pm 7 days a week)

# **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

elacomoditari according to regulation (20) non 12/2/2000 [02.1]			
Acute aquatic toxicity	Category 1 - (H400)		
Chronic aquatic toxicity	Category 1 - (H410)		

### 2.2. Label elements

# Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms



Signal word Warning

Hazard statements H410 - Very toxic to aquatic life with long lasting effects

**Precautionary Statements** P102 - Keep out of reach of children

P501 - Dispose of contents/ container to an approved waste disposal plant

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 Regulation (EC) No. 1272/2008 [CLP]	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) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)		M=10 M=10	No data available
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			01-211996995 4-16-0000

					(H335)	
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	77-92-9	201-069-1		< 2	Eye Irrit. 2 (H319)	01-211945702 6-42-xxxx
3-hydroxy-3-carboxy-1 ,5-pentanedioic acid	77-92-9	201-069-1		< 2	Eye Irrit. Cat 2 - (H319)	01-211945702 6-42-0002
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

**Inhalation** Remove to fresh air.

**Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a doctor.

**Skin contact**Wash skin with soap and water. In the case of skin irritation or allergic reactions see a

doctor.

**Ingestion** Clean mouth with water and drink afterwards plenty of water.

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

**Symptoms** Prolonged contact may cause redness and irritation.

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

surrounding environment.

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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.

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.

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

6.4. Reference to other sections

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

### SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Advice on safe handling 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)

Identified uses

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

Derived No Effect Level (DNEL)
Predicted No Effect Concentration
(PNEC)

No information available. 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** 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

<u>Property</u>	<u>Values</u>	<u>Method</u>	Remarks
Appearance			
Physical state	: Solid		
Colour	: beige		
Odour	: chemical		
Odour threshold	: No data available		
pH	: 8.7-9.7	CIPAC MT 75.3	
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	: No data available		
explosive limits			
Vapour pressure kPa	:		Not applicable
Vapour density	: No data available		

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Relative density : ---Solubility(ies) mg/l : ----

Partition coefficient Log Pow :

Not applicable Not applicable

See Section 12 for additional

**Ecological Information** 

Autoignition temperature °C : > 400

**Decomposition temperature** °C : ---- **Kinematic viscosity** mm2/s 40 °C : ----**Surface tension** : ----

Particle Size : Not applicable

No data available Not applicable Not applicable

EEC A.16

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 None known based on information supplied.

# **SECTION 11: Toxicological information**

# 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Values Species Method Remarks

> 2000 Pat OFCD 423

 Oral LD50 mg/kg
 : > 2000
 Rat
 OECD 423

 Dermal LD50 mg/kg
 : > 2000
 Rat
 OECD 402

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Inhalation LC50 mg/l : > 4.8 Rat OECD 403 Maximum

attainable concentration

Skin corrosion/irritation : Non-irritating to the skin Rabbit OECD 404

Serious eye damage/eye irritation : Not irritating to eyes Rabbit OECD 405
Sensitisation : 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

**STOT - Single Exposure** 

Chemical name

Metribuzin : Not classified

STOT - Repeated Exposure

Chemical name

Metribuzin : Not classified

Aspiration hazard Chemical name

Metribuzin : Not classified

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

Acute toxicity Values Species Method Remarks

 Fish 96-hour LC50 mg/l
 : > 100
 Oncorhynchus mykiss
 OECD 203

 Crustacea 48-hour EC50 mg/l
 : > 100
 Daphnia magna
 OECD 202

 Algae 72-hour EC50 mg/l
 : 0.0867
 D. Subspicatus
 OECD 201

Other plants EC50 mg/l : ---- No data available

<u>Chronic aquatic toxicity</u> <u>Values</u> <u>Species</u> <u>Method</u> <u>Remarks</u>

Fish NOEC mg/l : No data available
Crustacea NOEC mg/l : No data available
Algae NOEC mg/l : No data available
Other plants NOEC mg/l : No data available

Terrestrial Toxicity
Birds Oral LD50 mg/kg

**Chemical name** 

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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 <u>Values</u> <u>Method</u> <u>Remarks</u>

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

**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

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**14.1 UN number** UN3077

**14.2 UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Metribuzin)

14.3 Transport hazard class(es) 9
14.4 Packing group | |||

**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

<u>RID</u>

**14.1 UN number** UN3077

**14.2 UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Metribuzin)

14.3 Transport hazard class(es) 9
14.4 Packing group | | | |

**Description** UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Metribuzin),

9, III Yes

**Environmental hazard 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 SUBSTANCE, SOLID, N.O.S. (Metribuzin)

14.3 Transport hazard class(es) 9
14.4 Packing group | | |

**Description** UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Metribuzin),

9, III, Marine pollutant

14.5 Environmental hazard Yes

14.6 Special Precautions for Users14.5 Marine pollutant

14.5 Marine pollutant P
Environmental hazard Yes

14.6 Special Precautions for Users

**Special Provisions** 274, 335, 966, 967, 969

**EmS-No** F-A, S-F

IMDG Stowage and segregation Category A SW23 No information available

**14.7 Maritime transport in bulk** No information available

according to IMO instruments

IATA

**14.1 UN number** UN3077

**14.2 UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Metribuzin)

14.3 Transport hazard class(es) 9
14.4 Packing group ||||

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 A158, A179, A97, A197

ERG Code 9L



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# **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
ı	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 12-May-2022

**Reason for revision** Changes made to the last version are labeled with this sign \*\*\*

#### 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 Regulation (EC) No. 1272/2008 [CLP]

Classification of the mixtureClassification procedureH400 - Very toxic to aquatic lifeClassification based on test data

H410 - Very toxic to aquatic life with long lasting effects

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**