

# SAFETY DATA SHEET

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

Shrapnel

Revision date 18-Aug-2021 Version 2.01 Supersedes Date: 04-Nov-2020 Product Code(s)

HRB01033-44

Print Date 18-Aug-2021

ADM.05850.H.1.A 27779

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

#### 1.1. Product identifier

## Shrapnel

Other means of identification

Synonyms Phenmedipham 320 SC

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** National Chemical Emergency Centre (UK):

Tel: 01865 407333 (24 hours)

## **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

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

Serious eye damage/eye irritation	Category 1 - (H318)
Acute aquatic toxicity	Category 1 - (H400)

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Chronic aquatic toxicity Category 1 - (H410)

### 2.2. Label elements

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

Contains Alcohol C13-iso, ethoxylated

#### Hazard pictograms



Signal word Danger

Hazard statements H318 - Causes serious eye damage

H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements P102 - Keep out of reach of children

P280 - Wear protective gloves/protective clothing/eye protection/face protection P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing P501 - Dispose of contents/ container to an approved waste disposal plant

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**EU Specific Hazard Statements** EUH401 - To avoid risks to human health and the environment, comply with the instructions

for use

EUH208 - Contains (1,2-Benzisothiazolin-3-one). May produce an allergic reaction

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
Phenmedipham	13684-63-4	237-199-0	616-106-00-0	27 - 31	Aquatic Acute 1 (H400)		M=10 M=10	No data available

					Aquatic Chronic 1 (H410)		
Alcohol C13-iso, ethoxylated	9043-30-5	-		10 - 13	Eye Dam. 1 (H318) Acute Tox. 4 (H302)		No data available
1,2-Benzisothiazolin-3- one	2634-33-5	220-120-9	613-088-00-6	< 0.05	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Acute Tox. 4 (H302) Aquatic Acute 1 (H400)	Skin Sens. 1 :: C>=0.05%	01-212076154 0-60-XXXX

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

General advice 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.

Inhalation Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call

a physician.

Eye contact 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. Get medical

attention immediately if symptoms occur.

**Skin contact** Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Consult a physician if necessary.

**Ingestion** Rinse mouth. Drink plenty of water. If symptoms persist, call a physician.

**Self-protection of the first aider**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

### **SECTION 5: Firefighting measures**

5.1. Extinguishing media

Suitable Extinguishing Media Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.

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Small Fire Dry chemical, CO2, water spray or regular foam

Large Fire Do not scatter spilled material with high pressure water streams

Dike fire-control water for later disposal Water spray, fog or regular foam

Move containers from fire area if you can do it without risk

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

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

A fire or explosion

Specific hazards arising from the

chemical

Containers may explode when heated

Keep product and empty container away from heat and sources of ignition. In the event of

fire, cool tanks with water spray.

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** Evacuate personnel to safe areas. Use personal protective equipment as required. See

section 8 for more information. Take precautionary measures against static discharges. Do not touch or walk through spilled material. Avoid contact with skin, eyes or clothing.

**Health risks**Contact may cause burns to skin and eyes

Runoff from fire control may cause pollution

Fire may produce irritating, corrosive and/or toxic gases

Inhalation of material may be harmful

Some liquids produce vapors that may cause dizziness or suffocation

**Spill or Leak** Do not touch or walk through spilled material

Prevent dust cloud

Stop leak if you can do it without risk

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

6.2. Environmental precautions

**Environmental precautions** Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage

if safe to do so.

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

Methods for containment Stop leak if you can do it without risk. Do not touch or walk through spilled material. Dike far

ahead of liquid spill for later disposal.

Methods for cleaning up Take precautionary measures against static discharges. Dam up. Soak up with inert

absorbent material. Pick up and transfer to properly labeled containers.

**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 Use personal protection equipment. Do not breathe vapor or mist. Keep away from heat,

hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Use with local exhaust ventilation. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Do not eat, drink or smoke when using this product.

**General hygiene considerations** Do not eat, drink or smoke when using this product. Contaminated work clothing should not

be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

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

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from

heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store locked up. Keep out

of the reach of children.

### 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** 

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 Wear suitable gloves.

**Skin and body protection** Wear suitable protective clothing.

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

**General hygiene considerations** Do not eat, drink or smoke when using this product. Contaminated work clothing should not

be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

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>	<u>Remarks</u>
A mm			

Appearance
Physical state : Liquid

Color : opaque white
Odor : Faint characteristic
Odor threshold : No data available

**pH** : 3.65 - 4.65 CIPAC MT 75 solution (1%)

Melting point / freezing point °C : No data available Boiling point / boiling range °C : No data available

Flash point °C : > 79 CIPAC MT 12.2

Evaporation rate : No data available Flammability (solid, gas) : Not applicable for liquids Upper/lower flammability or : No data available

explosive limits

Vapor pressurekPa: No data availableVapor density: No data available

Relative density : 1.0977 CIPAC MT 3.3.2 20 °C

Solubility(ies) mg/l : No data available

Partition coefficient Log Pow : See Section

artition coefficient Log Pow : See Section 12 for additional Ecological Information

**EEC A.15** 

Autoignition temperature °C : 485

Kinematic viscosity mm2/s 40 °C : 10.9 - 86.5 OECD 114

Surface tension: No data availableParticle Size: Not applicable

9.2. Other information

Bulk density g/ml : Not applicable

9.2.1. Information with regard to physical hazard classes
Explosive properties : Not an explosive
Oxidizing 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** Yes.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions 
None under normal processing.

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10.4. Conditions to avoid

Conditions to avoid Heat, flames and sparks.

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents. Incompatible materials

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

	<u>Values</u>	<u>Species</u>	<u>Method</u>	Remarks
Oral LD50 mg/kg	: > 2500	Rat	OECD 423	
Dermal LD50 mg/kg	: > 4000	Rat	OECD 402	
Inhalation LC50 mg/l	: > 5.04	Rat	OECD 403	
Skin corrosion/irritation	: Non-irritatii	ng to the skin Rabbit	OECD 404	
Serious eye damage/eye irritation	: No data av	railable		No data available
Sensitization	: Not a skin	sensitizer Guinea pig	OECD 406	

#### **Chronic toxicity**

Germ cell mutagenicity

Chemical name

Phenmedipham : Not classified

Carcinogenicity

Chemical name

Phenmedipham : Not Carcinogenic

Reproductive toxicity .

Chemical name

Phenmedipham : Not toxic for the reproductive system

**STOT - Single Exposure** 

Chemical name

Phenmedipham : No data available

**STOT - Repeated Exposure** 

Chemical name

Phenmedipham : No data available

**Aspiration hazard** Chemical name

Phenmedipham : No data available

### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

#### 11.2.2. Other information

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Other adverse effects

No information available.

## SECTION 12: Ecological information

12.1. Toxicity

Values Species Method Remarks **Acute toxicity** 

Fish 96-hour LC50 mg/l Oncorhynchus mykiss 10.9 **OECD 203** Crustacea 48-hour EC50 mg/l 33 Daphnia magna **OECD 202** Algae 72-hour EC50 mg/l 0.44 P. subcapitata **OECD 201** 

Other plants EC50 mg/l No data available

Chronic aquatic toxicity Values Species Method Remarks

Fish NOEC mg/l 0.54 Rainbow trout Crustacea NOEC mg/l 0.043 Daphnia magna Algae NOEC mg/l 0.31 P.subcapitata

Other plants NOEC mg/l No data available

**Terrestrial Toxicity** Birds Oral LD50 mg/kg

**Chemical name** 

Phenmedipham : > 2500 Mallard duck **OECD 401** 

Bees Oral LD50 µg/bee

**Chemical name** 

Phenmedipham **OECD 213** : > 100

12.2. Persistence and degradability

**Abiotic Degradation** Water DT50 days

**Chemical name** 

Phenmedipham **OECD 308** : 6.8

Soil DT50 days Chemical name

Phenmedipham : 26.8

**OECD 307** 

**Biodegradation** Chemical name

Phenmedipham : Not readily biodegradable OECD 301D

12.3. Bioaccumulative potential

**Partition Coefficient** Values Method Remarks

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

Phenmedipham **OECD 107** : 2.7 20 ° C

**Bioconcentration factor (BCF)** 

Chemical name

Phenmedipham

12.4. Mobility in soil

Adsorption/Desorption Values Method Remarks Chemical name

Phenmedipham **OECD 106** Kfoc : 1331

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

**14.1 UN number** UN3082

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

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

Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Phenmedipham), 9, III

14.5 Environmental hazard

14.6 Special Precautions for Users

**Special Provisions** 274, 335, 601, 375

Classification code M6

RID

**14.1 UN number** UN3082

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

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

**Description** UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Phenmedipham), 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 M6

**IMDG** 

**14.1 UN number** UN3082

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

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

**Description** UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Phenmedipham), 9, III, Marine pollutant

14.5 Environmental hazard Ye

14.6 Special Precautions for Users

14.5 Marine pollutant P
Environmental hazard Yes

14.6 Special Precautions for Users

 Special Provisions
 274, 335, 969

 EmS-No
 F-A, S-F

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14.7 Maritime transport in bulk according to IMO instruments

IMDG Stowage and segregation Category A No information available

No information available

IATA

14.1 UN number UN3082

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Phenmedipham) 14.2 UN proper shipping name

14.3 Transport hazard class(es) 14.4 Packing group

Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Phenmedipham), 9, III

14.5 Environmental hazard

14.6 Special Precautions for Users

**Special Provisions ERG Code** 

A97, A158, A197



\* 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

Registration Number(s) Trade name / designation 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

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

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

### **Persistent Organic Pollutants**

Not applicable

#### 15.2. Chemical safety assessment

A risk assessment was performed according to directive (EC) No. 91/414 or according to **Chemical Safety Report** 

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

H302 - Harmful if swallowed

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

#### Legend

SVHC: Substances of Very High Concern for Authorization:

### 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 18-Aug-2021

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

#### List of Acronyns

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

ATA - 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 mixture Classification procedure

H318 - Causes serious eye damage Classification based on Calculation method

H400 - Very toxic to aquatic life

Classification based on test data

H410 - Very toxic to aquatic life with long lasting effects

Classification based on test data

#### 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**