



# SAFETY DATA SHEET

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

## Parish

Revision Date 19-Jan-2017

Version 1

Publish Date 19-Jan-2017

Product No HRB01033-44

27779 FSG 04189 H-2 / AG-P7-320 SC

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

### 1.1. Product identifier

#### Parish

##### 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

Uses advised against

No information available

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

Supplier Address

ADAMA Agricultural Solutions UK Ltd  
Unit 15, Thatcham Buisness Village Colthrop Way,  
Thatcham Berkshire RG19 4LW, UK : 01635 860555  
Fax: 01635 861555

For further information, please contact

Email 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)

Hazardous to the Aquatic Environment - Chronic Hazard Category 1 - (H410)

### 2.2. Label elements

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

Hazard pictograms



<b>Signal word</b>	Danger
<b>Hazard Statements</b>	H318 - Causes serious eye damage H410 - Very toxic to aquatic life with long lasting effects
<b>Precautionary Statements</b>	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
<b>EU Specific Hazard Statements</b>	EUH208 - Contains 1,2-Benzisothiazolin-3-one. May produce an allergic reaction EUH401 - To avoid risks to human health and the environment, comply with the instructions for use
<b>Additional phrases for PPP</b>	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**

No information available

### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

**3.2 Mixture**

Chemical Name	Weight-%	CAS No	EC No	Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	M-Factor	REACH Registration Number
Phenmedipham	27-31	13684-63-4	237-199-0	616-106-00-0	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	M=1 M=1	-
1,2-Benzisothiazolin-3-one	<0.5	2634-33-5	220-120-9	613-088-00-6	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Aquatic Acute 1 (H400)		-
Alcohol C13-iso, ethoxylated	11-15	9043-30-5	-	-	Eye Dam. 1 (H318) Acute Tox. 4 (H302)		02-2119492447-27-0000

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 unwellness, seek medical advice immediately (show directions for use or safety data sheet if 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 physician.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated

---

clothes and shoes. Consult a physician if necessary.

**Eye contact** In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**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**

**Note to physicians** Treat symptomatically.

### **Section 5: FIRE-FIGHTING MEASURES**

#### **5.1. Extinguishing media**

##### **Suitable Extinguishing Media**

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

##### **Unsuitable Extinguishing Media**

No information available.

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

No specific hazard known.

#### **5.3. Advice for firefighters**

Wear self contained breathing apparatus for fire fighting if necessary

### **Section 6: ACCIDENTAL RELEASE MEASURES**

#### **6.1. Personal precautions, protective equipment and emergency procedures**

##### **Personal precautions**

Use personal protective equipment as required. Avoid contact with eyes and skin. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

##### **For emergency responders**

Use personal protection recommended in Section 8.

#### **6.2. Environmental precautions**

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

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

##### **Methods for cleaning up**

Take up mechanically, placing in appropriate containers for disposal.

#### **6.4. Reference to other sections**

##### **Other Information**

See also section 8,13

## Section 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

#### **Advice on safe handling**

Use personal protective equipment as required. Use only with adequate ventilation.

#### **General Hygiene Considerations**

When using do not eat, drink or smoke. Wash contaminated clothing before reuse.

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

#### **Storage Conditions**

Keep container tightly closed. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place.

### 7.3. Specific end use(s)

#### **Risk Management Methods (RMM)**

The information required is contained in this Material Safety Data Sheet.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

### 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**

Gloves made of plastic or rubber.

##### **Body Protection**

Suitable protective clothing.

#### **General Hygiene Considerations**

When using do not eat, drink or smoke. Wash contaminated clothing before reuse.

#### **Environmental exposure controls**

Do not allow into any sewer, on the ground or into any body of water.

## 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>
<b>Appearance</b>			
<b>Physical state</b>	: Liquid		
<b>Color</b>	: opaque white		
<b>Odor</b>	: Faint characteristic		
<b>Odor threshold</b>	: No data available		
<b>pH</b>	: 3.65 - 4.65	CIPAC MT 75	solution (1 %)
<b>Melting point/freezing point °C</b>	: ---		Not Applicable
<b>Boiling point/boiling range °C</b>	: No data available		
<b>Flash point °C</b>	: > 79	CIPAC MT 12.2	
<b>Evaporation rate</b>	: Not Applicable		
<b>Flammability (solid, gas)</b>	: Not applicable for liquids		
<b>Upper/lower flammability or explosive limits</b>	: No data available		

Vapor pressure kPa	: ----		Not Applicable
Vapor density	: No data available		
Relative density	: 1.0977	CIPAC MT 3.3.2	g/ml; 20 °C
Solubility(ies) mg/l	: ----		Not Applicable
Partition Coefficient (n-octanol/water) Log Pow	:		See Section 12 for more information
Autoignition temperature °C	: 485	EEC A.15	
Decomposition temperature °C	: No data available		
Kinematic viscosity mm <sup>2</sup> /s 40 °C	: 48.8	OECD 114	
Explosive properties	: Not an explosive		
Oxidizing properties	: Not oxidizing		
<b>9.2. Other information</b>			
Bulk density g/ml	: ----		Not Applicable
Surface tension mN/m	: ----		No data available

## Section 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

None under normal processing.

### 10.4. Conditions to avoid

Heat, flames and sparks.

### 10.5. Incompatible materials

No information available

### 10.6. Hazardous decomposition products

None under normal use conditions.

## Section 11: TOXICOLOGY INFORMATION

### 11.1. Information on toxicological effects

#### Acute toxicity

	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
Oral LD50 mg/kg	: > 2500	Rat	OECD 423	
Dermal LD50 mg/kg	: > 4000	Rat	OECD 402	
Inhalation LC50 mg/l/4h	: > 5.04	Rat	OECD 403	
Skin corrosion/irritation	: Non-irritating to the skin	Rabbit	OECD 404	
Serious eye damage/eye irritation	:			No data available
Respiratory/skin 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

## Section 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity Toxicity

#### Aquatic toxicity

<u>Acute toxicity</u>	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
Fish 96-hour LC50 mg/l	: 10.9	Oncorhynchus mykiss	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

#### Terrestrial Toxicity

**Birds Oral LD50 mg/kg**  
**Chemical Name**  
 Phenmedipham : > 2100 Mallard duck

#### Bees Oral LD50 µg/bee

**Chemical Name**  
 Phenmedipham : > 100

### 12.2. Persistence and degradability Persistence and degradability

<u>Abiotic Degradation</u>	<u>Values</u>	<u>Method</u>	<u>Remarks</u>
Water DT50 days <b>Chemical Name</b> Phenmedipham	: 0.11 - 0.18		

Soil DT50 days <b>Chemical Name</b> Phenmedipham	: 37		
--	------	--	--

**Biodegradation**  
**Chemical Name**  
 Phenmedipham : Not readily biodegradable

### 12.3. Bioaccumulative potential Bioaccumulative potential

<b>Partition Coefficient (n-octanol/water) Log Pow</b>	<b>Values</b>	<b>Method</b>	<b>Remarks</b>
<b>Chemical Name</b> Phenmedipham	: 2.7		pH 6.4, 20-25 ° C

<b>Bioconcentration factor (BCF)</b>	<b>Values</b>	<b>Method</b>	<b>Remarks</b>
<b>Chemical Name</b> Phenmedipham	: 165		

**12.4. Mobility in soil Mobility in soil**

<b>Adsorption/Desorption</b>	<b>Values</b>	<b>Method</b>	<b>Remarks</b>
<b>Chemical Name</b> Phenmedipham	: 888		Koc

**12.5. Results of PBT and vPvB assessment Results of PBT and vPvB assessment**

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

**12.6. Other adverse effects Other adverse effects**

No information available.

**Section 13: DISPOSAL CONSIDERATIONS**
**13.1. Waste treatment methods**

<b>Waste from residues/unused products</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.
<b>Contaminated packaging</b>	Improper disposal or reuse of this container may be dangerous and illegal.
<b>Other Information</b>	Waste codes should be assigned by the user based on the application for which the product was used.

**Section 14: TRANSPORTATION INFORMATION**
**IMDG/IMO**

<b>14.1 UN/ID No *</b>	3082
<b>14.2 Proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( Phenmedipham )
<b>14.3 Hazard Class</b>	9
<b>14.4 Packing Group</b>	III
<b>14.5 Marine pollutant</b>	Yes
<b>14.6 Special precautions for user</b>	

**RID/ADR**

<b>14.1 UN/ID No *</b>	3082
<b>14.2 Proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( Phenmedipham )
<b>14.3 Hazard Class</b>	9
<b>14.4 Packing Group</b>	III
<b>14.5 Environmental hazard</b>	Yes
<b>14.6 Special precautions for user</b>	
<b>14.7 Tunnel restriction code</b>	

**ICAO/IATA**

<b>14.1 UN/ID No *</b>	3082
<b>14.2 Proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( Phenmedipham )
<b>14.3 Hazard Class</b>	9
<b>14.4 Packing Group</b>	III
<b>14.5 Environmental hazard</b>	Yes
<b>14.6 Special precautions for user</b>	

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not Applicable



\* 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

### 15.2. Chemical safety assessment

A chemical safety assessment according to regulation (EC) No. 1907/2006 is not required. A risk assessment was performed according to directive (EC) No. 91/414 or according to regulation (EC) No. 1107/2009.

## Section 16: OTHER INFORMATION

### Full text of H-Statements referred to under sections 2 and 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

**Revision Note** Changes made to the last version are labeled with this sign \*\*\*.

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

### **List of 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

### **Disclaimer**

**The information provided in this Material 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