PHOSTOXIN

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Reference number: 100
Issue date: 11/09/2024 Version: 23.0

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

1.1. Product identifier

Product form	:	Mixture
Trade name	:	PHOSTOXIN
Type of product	:	Biocidal products (e.g. Disinfectants, pest control) / Plant Protection Product
Authorisation number	:	GB/NI-2016-1044-0001 / GB/NI-2018-1118-0001 / MAPP 20915
Product group	:	Product

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

1.2.1. Relevant identified uses

Main use category	:	Trained professional
Use of the substance/mixture	:	A vertebrate control agent for professional use. Spherical tablets supplied in an aluminium flask. The phosphine gas, which is produced when the tablets come into contact with moisture has a garlic or carbide odour (although odour is not considered a reliable indicator of presence).
Use of the substance/mixture	:	Vertebrate control agent (for use against rats, rabbits and moles)

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

For Great Britain:
Rentokil Initial Supplies
Liverpool
L33 7SR
UK

Product advice line: +44 (0)151 548 5050
Email: products@rentokil.com

For Northern Ireland:
Rentokil Pest Control
Units 5-7
Abbey Enterprise Park
Mill Road
Newtownabbey
Co Antrim
BT36 7BA

Tel: +44 (0)28 9086 5006
Email: products@rentokil.com

1.4. Emergency telephone number

Emergency number : +44 (0)1342 833022 (24/7)
Call NHS 111 or a doctor (For UK/NI only)

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH	0344 892 0111	Only for healthcare professionals

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Substances and Mixtures which, in contact with water, emit flammable gases, Category 1	H260
Acute toxicity (oral), Category 2	H300
Acute toxicity (dermal), Category 1	H310
Acute toxicity (inhalation:dust,mist) Category 1	H330
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 1	H318
Hazardous to the aquatic environment – Acute Hazard, Category 1	H400

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

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :

GHS02 GHS05 GHS06 GHS09

Signal word (CLP) : Danger

Contains : aluminium phosphide; Ammonium Carbamate

Hazard statements (CLP) : H260 - In contact with water releases flammable gases which may ignite spontaneously.
H300+H310+H330 - Fatal if swallowed, in contact with skin or if inhaled.
H315 - Causes skin irritation.
H318 - Causes serious eye damage.
H400 - Very toxic to aquatic life.

Precautionary statements (CLP) : P223 - Do not allow contact with water.
P232 - Protect from moisture.
P234 - Keep only in original packaging.
P260 - Do not breathe dust, gas.
P273 - Avoid release to the environment.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER, a doctor.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310 - Immediately call a POISON CENTER, a doctor.
P312 - Call a POISON CENTER, doctor if you feel unwell.
P335 - Brush off loose particles from skin.
P370+P378 - In case of fire: Use sand, extinguishing powder, carbon dioxide (CO2) to extinguish.
P402 - Store in a dry place.
P403 - Store in a well-ventilated place.
P404 - Store in a closed container.
P405 - Store locked up.
P501 - Dispose of contents and container to a hazardous or special waste collection point.

EUH-statements : EUH029 - Contact with water liberates toxic gas.
EUH032 - Contact with acids liberates very toxic gas.
EUH070 - Toxic by eye contact.
EUH401 - To avoid risks to human health and the environment, comply with the instructions for use.

2.3. Other hazards

Aluminium phosphide meets the T criterion, but not the P or B criterion.

Other information : Contains 56% Aluminium phosphide (CAS 20859-73-8) releasing phosphine. Phosphine (hydrogen phosphide) is an extremely flammable gas which is fatal if inhaled, causes severe burns and eye damage and is very toxic to aquatic life. Another reaction product in the presence of moisture is ammonia (CAS 7664-41-7) which is toxic if inhaled and is flammable. It causes severe burns and eye damage, and is very toxic to aquatic life.

Component	
aluminium phosphide (20859-73-8)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
aluminium phosphide (Active substance (Biocide)) substance with a Community workplace exposure limit	CAS-No.: 20859-73-8 EC-No.: 244-088-0 EC Index-No.: 015-004-00-8	56	Water-react. 1, H260 Acute Tox. 2 (Oral), H300 Acute Tox. 3 (Dermal), H311 Acute Tox. 1 (Inhalation), H330 Aquatic Acute 1, H400 (M=100)
Ammonium Carbamate	CAS-No.: 1111-78-0 EC-No.: 214-185-2	20 – 25	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318

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

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Do not enter contaminated atmosphere, otherwise wear self contained breathing apparatus. Move the person away from the contaminated area to fresh air as soon as possible and remove contaminated or splatter clothing. Call immediately to a doctor, emergency services or NHS 111.

First-aid measures after skin contact : Move the person away from the contaminated area to fresh air as soon as possible and remove contaminated or splatter clothing. If contact on skin, remove powdery residues by brushing. Rinse with plenty of water only when no more powdery residues are visible.

First-aid measures after eye contact : Move the person away from the contaminated area to fresh air as soon as possible and remove contaminated or splatter clothing. If contact in eyes, remove powdery residues using lint –free cloth. Rinse with plenty of water only when no more powdery residues are visible. Do NOT forget to remove any contact lenses.

First-aid measures after ingestion : Do not enter contaminated atmosphere, otherwise wear self contained breathing apparatus. Move the person away from the contaminated area to fresh air as soon as possible and remove contaminated or splatter clothing. If swallowed do NOT induce vomiting unless told to do so by poison control or a health care professional. Call immediately to a doctor, emergency services or NHS 111. - If necessary take the person to a hospital in a well – ventilated car and show the label orpackaging whenever possible. - Keep the patient at rest and maintain the body temperature. - If the person is unconscious, turn the patient sideways with the head at a lower level than the rest of the body and the knees bended. - If breathing stops or shows signs of failing administer artificial respiration using oxygen and a mechanical device such as a bag and mask. - Do not use mouth to mouth resuscitation. DO NOT LEAVE THE PERSON ALONE UNDER ANY CIRCUMSTANCES.

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

Symptoms/effects : MISUSE OF THIS PRODUCT CAN BE FATAL. There is no effective treatment for phosphine poisoning. Less than one sixth of a 3g tablet (0.5g) is a fatal dose for a 70kg human, ingested or inhaled. Phosphine directly inhibits cytochrome oxidase in an action similar to that of cyanide. Symptoms of poisoning include epigastric burning vomiting thirst cardiovascular collapse acidosis and hypokalemia (potassium deficiency). IDLH (Immediately Dangerous to Life and Health) = 50ppm Phosphine. Poisoning may cause; Burning of the eyes, skin, mucous membranes, respiratory and gastrointestinal tract. - Nausea, vomiting, diarrhoea and severe abdominal pain. -Headache, cough, tightness and pain in the chest, shortness of breath, dizziness, lethargy, and stupor. -Fatigue, muscle pain, chills, incoordination, seizures and coma. - Pulmonary edema and cardiac arrhythmias. Liver, kidney, and adrenal cortex damage. -Multiorgan failure which may cause death. If any of the mentioned symptoms occurs or if poisoning is suspected: STOP WORK IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, seek medical advice immediately.

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

WARNING: All patients with exposures should be sent to a Healthcare facility for at least a period of 24 hours observation after inhalation or ingestion. Contact with moisture or moist air: if swallowed the contact with an organism's stomach acid produces PHOSPHINE. Aluminium phosphide releases phosphine gas into the stomach and can cause spontaneous vomiting and the gas can contaminate confined areas like rooms and ambulances. Medical advice for doctors: No specific antidote is known. Treatment for suspected poisoning should be symptomatic and supportive care. UK Medical Professionals should contact the National Poisons Information Service (www.nips.org) for further information. For further advice please call NHS 111. IF MEDICAL ADVICE IS NEEDED, HAVE THE PRODUCT CONTAINER OR LABEL AT HAND AND CONTACT THE POISON CONTROL CENTRE.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Sand. Dry powder. Carbon dioxide.
Unsuitable extinguishing media : Do not use extinguishing media containing water.

5.2. Special hazards arising from the substance or mixture

Fire hazard : In case of fire hazardous combustion gases are formed, caustic phosphoric acid aerosols (phosphide pentoxide).

5.3. Advice for firefighters

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Wear suitable personal protective equipment.

6.1.1. For non-emergency personnel

Protective equipment : Wear suitable and use suitable personal protective clothing and equipment including self contained breathing apparatus (SCBA). All clothing and equipment should be machine washed immediately after use.

6.1.2. For emergency responders

Protective equipment : Wear suitable and use suitable personal protective clothing and equipment including self contained breathing apparatus (SCBA). All clothing and equipment should be machine washed immediately after use.

6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : In the event of spillage or accidental trigger release, do not attempt to recover the tablets for re-loading. Evacuate the spillage area and ensure the area is well ventilated. Wear and use suitable protective clothing and equipment using SCBA. Prevent dispersion. Clean up the remainder carefully. DO NOT USE WATER FOR CLEANING SPILLAGES. The area should be kept secure and aerated until checked for zero gas concentration using appropriate gas sampling equipment. Remove as hazardous waste according to National or local legislation.

6.4. Reference to other sections

See also sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid any unnecessary contact with the product. Misuse may cause adverse effects on health. Always open the pack out of doors / in a well-ventilated place and work sideways on to the wind. Open the flask outdoors immedately before use and ensure it is pointing away from you.
DO NOT USE THIS PRODUCT: If the ground is very wet, In wet weather/ including dense fog of heavy mist. DO NOT ALLOW PRODUCT TO REMAIN ON GROUND Use all of the contents of the flask in one operation. Use only with the Applicator supplied for use with Phostoxin.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked securely in a cool, dry, well ventilated place in the original closed container away and protected from water or moisture. Protect and keep away from moisture and away from any possible contact with water because of a possible violent reaction and possible flash fire. Keep away from food, drink and animal feeding stuffs. Keep out of reach of children. Keep only in original container, tightly closed, under lock and key. DO NOT STORE OR RE-SEAL PART USED FLASKS EXCEPT WHEN TRANSPORTING. Spontaneous combustion can arise due to sudden release of phosphine gas if a flask having been opened once is then re-opened.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

aluminium phosphide (20859-73-8)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Phosphine
IOEL TWA	0.14 mg/m³

aluminium phosphide (20859-73-8)	
IOEL STEL	0.28 mg/m³

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:
Where exposure may occur, engineering controls, rather than the provision of Personal Protective Equipment (PPE) should be employed. On completion of a risk assessment, the following PPE may be required:

8.2.2. Personal protection equipment

Personal protective equipment:
Wear synthetic rubber gloves. Wear self contained breathing apparatus or full face respirator(to EN 136) with B2P3 filter (to EN 14387) dependent on risk assessment.

8.2.2.1. Eye and face protection

Eye protection:
When opening the flask, point away from face and other people. Wear a full-face respirator with appropriate filter cartridge (which also meets P3 standard for particulates) or SCBA (Contact your PPE supplier for advice on suitable PPE and RPE)

8.2.2.2. Skin protection

Skin and body protection:
Wear suitable protective clothing

Hand protection:
Wear synthetic rubber gloves.

8.2.2.3. Respiratory protection

Respiratory protection:
Suitable respiratory protective protection such as a full face respirator with appropriate filter cartridge (which also meets P3 standard for particulates) or SCBA (Conatct your PPE supplier for advice on suitable PPE and RPE).

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:
Avoid release to the environment. Refer to special instructions/safety data sheets.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Solid
Colour	:	Grey.
Odour	:	garlic-like.
Odour threshold	:	Not available
Melting point	:	Not available
Freezing point	:	Not available
Boiling point	:	-87.4 °C Phosphine

Flammability	:	Extremely flammable gas.
Explosive limits	:	1.79 – 1.89 vol % Hydrogen phosphide
Lower explosion limit	:	Not applicable
Upper explosion limit	:	Not applicable
Flash point	:	Not applicable
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	Not available
pH	:	Not available
pH solution	:	Not available
Viscosity, kinematic	:	Not applicable
Solubility	:	Not available
Partition coefficient n-octanol/water (Log Kow)	:	Not available
Vapour pressure	:	Not available
Vapour pressure at 50°C	:	Not available
Density	:	2.01505 g/cm³ aluminium phosphide
Relative density	:	Not available
Relative vapour density at 20°C	:	1.2 Phosphine
Particle size	:	Not available
Particle size distribution	:	Not available
Particle shape	:	Not available
Particle aspect ratio	:	Not available
Particle aggregation state	:	Not available
Particle agglomeration state	:	Not available
Particle specific surface area	:	Not available
Particle dustiness	:	Not available

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Explosion limits : 1.79 – 1.89 vol % Hydrogen phosphide

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Highly reactive when in contact with water or acids, produces extremely flammable and very toxic hydrogen phosphide (phosphine), ammonia and carbon dioxide.

10.2. Chemical stability

Avoid contact with water and acids as this will cause aluminium phosphide to decompose in a violent reaction into extremely flammable and very toxic hydrogen phosphide, ammonia and carbon dioxide.

10.3. Possibility of hazardous reactions

Avoid contact with water and acids as this will cause aluminium phosphide to decompose in a violent reaction into extremely flammable and very toxic hydrogen phosphide, ammonia and carbon dioxide.

10.4. Conditions to avoid

Avoid contact with water acids and ambient humidity. Phosphine gas is considered to be corrosive to copper copper alloys silver and gold.

10.5. Incompatible materials

Avoid contact with water and acids as this will cause aluminium phosphide to decompose in a violent reaction into extremely flammable and very toxic hydrogen phosphide, ammonia and carbon dioxide.

10.6. Hazardous decomposition products

Hydrogen phosphide, phosphoric pentoxide and phosphoric acid.

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Fatal if swallowed.
Acute toxicity (dermal) : Fatal in contact with skin.
Acute toxicity (inhalation) : Inhalation:dust,mist: Fatal if inhaled.

PHOSTOXIN	
LD50 oral rat	8.7 mg/kg Aluminium phoshide
LD50 oral	11.5 mg/kg For product
LD50 dermal rat	500 – 1000 mg/kg Aluminium phosphide
LC50 Inhalation - Rat	0.015 mg/l/4h Hydrogen phosphide (phosphine)
LC50 Inhalation - Rat [ppm]	11 ppm/4h Hydrogen phosphide (phosphine)
ATE CLP (vapours)	0.015 mg/l/4h
ATE CLP (dust,mist)	0.015 mg/l/4h

aluminium phosphide (20859-73-8)	
LD50 oral	8.7 mg/kg
LD50 dermal	900 mg/kg
ATE CLP (oral)	5 mg/kg bodyweight
ATE CLP (dermal)	300 mg/kg bodyweight
ATE CLP (gases)	10 ppmv/4h
ATE CLP (vapours)	0.05 mg/l/4h
ATE CLP (dust,mist)	0.005 mg/l/4h

Ammonium Carbamate (1111-78-0)	
LD50 oral	681 – 1470 mg/kg
ATE CLP (oral)	500 mg/kg bodyweight

Skin corrosion/irritation : Causes skin irritation.
Serious eye damage/irritation : Causes serious eye damage.
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short–term (acute) : Very toxic to aquatic life.
Hazardous to the aquatic environment, long–term (chronic) : Not classified

PHOSTOXIN	
LC50 - Fish [1]	0.0097 ppm
EC50 - Crustacea [1]	0.2 mg/l

aluminium phosphide (20859-73-8)	
LC50 - Fish [1]	0.0097 mg/l

12.2. Persistence and degradability

PHOSTOXIN	
Persistence and degradability	Phosphine decomposes in the atmosphere within 5-28h.

12.3. Bioaccumulative potential

PHOSTOXIN	
Bioaccumulative potential	This product is not expected to bioaccumulate.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

PHOSTOXIN	
Results of PBT assessment	Aluminium phosphide meets the T criterion, but not the P or B criterion.

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : APPLICATOR CLEANING AND WASTE TREATMENT METHODS: When an applicator is used, it shall be cleaned after use. The cleaning shall be performed outdoors preferably in light winds (observe the wind direction) and with careful avoidance of exposure of humans and animals to dusts and/or phosphine. The cleaning of the Applicator shall be carried out in a sufficiently large vessel with tension relived water (with a detergent). All parts of the device must remain in the bath for at least four hours. During this time, the area shall be left. The device is then rinsed well with fresh water until all parts are clean. Before re-using the device, it shall be technically checked and all parts shall be completely dry. The cleaning operation should be conducted at sufficient intervals in order to ensure there is no hazardous build up of aluminium phosphide residues within the device. However before progressing with the cleaning procedure as outlined above, an appropriate risk assessment should be conducted to ensure there is sufficient time for all parts within the applicator to be safely dried before the next required use. This is necessary to ensure there is no possible contact between any trapped moisture inside the device and the product to be added. The applicator can only be carried between sites, transported on a vehicle (note not in a vehicle) or stored when it is empty and no longer contains the product or any dust that might generate phosphine. If as a result of a risk assessment immediate cleaning by washing is not possible because of possible moisture retention prior to next required use, as an interim measure the following emptying procedure should be followed. The empty flasks should be removed from the applicator and any remaining dust residue tapped from them, while still wearing full PPE, including full face respirator to EN136 with B2P3 filter to EN14387. Repeat this initial cleaning process with the empty applicator by operating the trigger mechanism a number of times to remove any dust or particles that may still be present. Ensure you then transport the empty applicator together with the empty flasks in a sealed container (300 gauge plastic would suffice) in an unoccupied compartment on the vehicle well away from the drivers cab, to a suitable place where all these items can be safely vented and aired (whilst again wearing PPE/RPE) until no further phosphine is liberated. Do not allow the applicator or flasks to become wet at any time during this venting procedure. At the first opportunity following this emptying procedure and when a risk assessment allows, the applicator should then be washed in accordance with the specified process described above. Refer to RAMPS (Register of Accredited Metallic Phosphide Standards) for further cleaning advice (http://www.ramps-uk.org).

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

14.1. UN number or ID number

UN-No. (ADR)	:	UN 1397
UN-No. (IMDG)	:	UN 1397
UN-No. (IATA)	:	UN 1397
UN-No. (ADN)	:	UN 1397
UN-No. (RID)	:	UN 1397

14.2. UN proper shipping name

Proper Shipping Name (ADR)	:	ALUMINIUM PHOSPHIDE
Proper Shipping Name (IMDG)	:	ALUMINIUM PHOSPHIDE
Proper Shipping Name (IATA)	:	Aluminium phosphide
Proper Shipping Name (ADN)	:	ALUMINIUM PHOSPHIDE
Proper Shipping Name (RID)	:	ALUMINIUM PHOSPHIDE
Transport document description (ADR)	:	UN 1397 ALUMINIUM PHOSPHIDE (MIXTURE), 4.3 (6.1), I, (E), ENVIRONMENTALLY HAZARDOUS
Transport document description (IMDG)	:	UN 1397 ALUMINIUM PHOSPHIDE, 4.3 (6.1), I, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
Transport document description (IATA)	:	UN 1397 Aluminium phosphide, 4.3 (6.1), I, ENVIRONMENTALLY HAZARDOUS
Transport document description (ADN)	:	UN 1397 ALUMINIUM PHOSPHIDE, 4.3 (6.1), I, ENVIRONMENTALLY HAZARDOUS
Transport document description (RID)	:	UN 1397 ALUMINIUM PHOSPHIDE, 4.3 (6.1), I, ENVIRONMENTALLY HAZARDOUS

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 4.3 (6.1)
Danger labels (ADR) : 4.3, 6.1
:

IMDG

Transport hazard class(es) (IMDG) : 4.3 (6.1)
Danger labels (IMDG) : 4.3, 6.1
:

IATA

Transport hazard class(es) (IATA) : 4.3 (6.1)
Danger labels (IATA) : 4.3, 6.1
:

ADN

Transport hazard class(es) (ADN) : 4.3 (6.1)
Danger labels (ADN) : 4.3, 6.1
:

RID

Transport hazard class(es) (RID) : 4.3 (6.1)
Danger labels (RID) : 4.3, 6.1
:

14.4. Packing group

Packing group (ADR) : I
Packing group (IMDG) : I
Packing group (IATA) : I
Packing group (ADN) : I
Packing group (RID) : I

14.5. Environmental hazards

Dangerous for the environment : Yes
Marine pollutant : Yes
Other information : No supplementary information available

14.6. Special precautions for user

Overland transport

Classification code (ADR) : WT2

Special provisions (ADR)	:	507
Limited quantities (ADR)	:	0
Excepted quantities (ADR)	:	E0
Packing instructions (ADR)	:	P403
Mixed packing provisions (ADR)	:	MP2
Transport category (ADR)	:	1
Special provisions for carriage - Packages (ADR)	:	V1
Special provisions for carriage - Loading, unloading and handling (ADR)	:	CV23, CV28
Special provisions for carriage - Operation (ADR)	:	S20
Tunnel restriction code (ADR)	:	E
EAC code	:	4W

Transport by sea

Limited quantities (IMDG)	:	0
Excepted quantities (IMDG)	:	E0
Packing instructions (IMDG)	:	P403
Special packing provisions (IMDG)	:	PP31
EmS-No. (Fire)	:	F-G
EmS-No. (Spillage)	:	S-N
Stowage category (IMDG)	:	E
Properties and observations (IMDG)	:	Crystals or powder. Reacts with acids or decomposes slowly in contact with water or damp air, evolving phosphine, a spontaneously flammable and highly toxic gas. Reacts violently with oxidizing substances.?Toxic if swallowed, by skin contact or by inhalation.

Air transport

PCA Excepted quantities (IATA)	:	E0
PCA Limited quantities (IATA)	:	Forbidden
PCA limited quantity max net quantity (IATA)	:	Forbidden
PCA packing instructions (IATA)	:	Forbidden
PCA max net quantity (IATA)	:	Forbidden
CAO packing instructions (IATA)	:	487
CAO max net quantity (IATA)	:	15kg
ERG code (IATA)	:	4PW

Inland waterway transport

Classification code (ADN)	:	WT2
Special provisions (ADN)	:	57, 82
Limited quantities (ADN)	:	0
Excepted quantities (ADN)	:	E0
Equipment required (ADN)	:	PP, EP, EX, TOX, A
Ventilation (ADN)	:	VE01, VE02
Provisions for handling and stowage of the cargo (ADN)	:	HA08
Number of blue cones/lights (ADN)	:	2

Rail transport

Classification code (RID)	:	WT2
Special provisions (RID)	:	507
Limited quantities (RID)	:	0
Excepted quantities (RID)	:	E0
Packing instructions (RID)	:	P403
Mixed packing provisions (RID)	:	MP2
Transport category (RID)	:	1
Special provisions for carriage – Packages (RID)	:	W1
Special provisions for carriage - Loading, unloading and handling (RID)	:	CW23, CW28
Hazard identification number (RID)	:	X462

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)		
Reference code	**Applicable on**	**Entry title or description**
40.	PHOSTOXIN ; aluminium phosphide	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Biocide Regulation (528/2012)

Contains substance(s) listed on the Biocidal Products list (Regulation EU 528/2012 concerning the making available on the market and use of biocidal products)

Type of product (Biocide) : 14 - Rodenticides, 20 - Control of other vertebrates
Authorisation number : GB/NI-2016-1044-0001 / GB/NI-2018-1118-0001
Contains : aluminium phosphide (56.00 % (percentage))

Plant Protection Products Regulation (1107/2009)

Contains substance(s) listed on the Plant Protection Products list (Regulation EU 1107/2009) concerning the placing on the market of Plant Protection Products

Authorisation number : MAPP 20915
Contains : aluminium phosphide (56.00 % (percentage))

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Indication of changes			
Section	**Changed item**	**Change**	**Comments**
1		Modified	
3		Modified	
15		Modified	
16		Modified	

Full text of H- and EUH-statements:	
Acute Tox. 1 (Dermal)	Acute toxicity (dermal), Category 1
Acute Tox. 1 (Inhalation)	Acute toxicity (inhal.), Category 1
Acute Tox. 1 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 1
Acute Tox. 2 (Oral)	Acute toxicity (oral), Category 2
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
EUH029	Contact with water liberates toxic gas.
EUH032	Contact with acids liberates very toxic gas.
EUH070	Toxic by eye contact.
EUH401	To avoid risks to human health and the environment, comply with the instructions for use.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
H260	In contact with water releases flammable gases which may ignite spontaneously.
H300	Fatal if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H400	Very toxic to aquatic life.
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Water-react. 1	Substances and Mixtures which, in contact with water, emit flammable gases, Category 1

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Water-react. 1	H260	Calculation method
Acute Tox. 2 (Oral)	H300	On basis of test data
Acute Tox. 1 (Dermal)	H310	
Acute Tox. 1 (Inhalation:dust,mist)	H330	On basis of test data
Skin Irrit. 2	H315	Calculation method

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Eye Dam. 1	H318	Expert judgement
Aquatic Acute 1	H400	On basis of test data

RI - SDS EU 2022.10.10

Before using any product, ensure that you read and understand its label.

The information contained in this safety data sheet is, to the best of our knowledge and belief, accurate and reliable at the time of publication. The information relates only to the specific material designated in this safety data sheet and may not be valid for such material if it is used in combination with any other material(s) or any other use than that specified herein. Neither Rentokil Initial plc nor any of its subsidiaries accepts any liability for the use of this product for any other purpose than that described in this safety data sheet. This does not affect your statutory rights. It is the user's responsibility to satisfy him/herself as to the suitability in completeness of such information for his/her own particular use.

Telephone: +44 (0) 1342 833022