PHOSTOXIN

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Date of issue: 09/04/2015 Revision date:

Version: 17.0

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

1.1. Product identifier

Product name : PHOSTOXIN

Brand : RENTOKIL

Type of product : Biocide

Registration No

Product form : Mixture

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

1.2.1. Relevant identified uses

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).

Main use category : Professional use

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Rentokil Initial Supplies
Liverpool
L33 7SR
UK

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

1.4. Emergency telephone number

Emergency number : +44 (0)1342 833022

Country	Organisation/Company	Address	Emergency number
IRELAND (REPUBLIC OF)	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road Dublin 9	+353 1 809 2166 (public, 8am - 10pm, 7/7)
UNITED KINGDOM	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road Birmingham B18 7QH	0844 892 0111 (UK only, Monday to Friday, 08.00 to 18.00 hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Water-react. 1	H260
Acute Tox. 2 (Oral)	H300
Acute Tox. 3 (Dermal)	H311
Acute Tox. 1 (Inhalation:dust,mist)	H330
Eye Dam. 1	H318
Aquatic Acute 1	H400

Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

F; R15

R29

T+; R26/28

Xn; R21

N; R50

R32

Full text of R-phrases: 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 GHS06 GHS09

Signal word (CLP) : Danger

Hazardous ingredients : Aluminium phosphide , Ammonium Carbamate

Hazard statements (CLP) : H260 - In contact with water releases flammable gases which may ignite spontaneously
H300+H330 - Fatal if swallowed or if inhaled
H311 - Toxic in contact with skin
H318 - Causes serious eye damage
H400 - Very toxic to aquatic life

Precautionary statements (CLP) : P223 - Keep away from any possible contact with water, because of violent reaction and possible flash fire
P232 - Protect from moisture
P234 - Keep only in original container
P235 - Keep cool
P260 - Do not breathe dust
P273 - Avoid release to the environment
P280 - Wear protective clothing, eye protection, face protection
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER, a doctor
P312 - Call a doctor, a POISON CENTER if you feel unwell
P321 - Specific treatment (see first aid on this label)
P335 - Brush off loose particles from skin
P370+P378 - In case of fire: Use carbon dioxide (CO2), dry sand to extinguish
P402+P404 - Store in a dry place. Store in a closed container
P405 - Store locked up
P501 - Dispose of contents/container to an approved waste disposal plant

EUH phrases : EUH029 - Contact with water liberates toxic gas
EUH032 - Contact with acids liberates very toxic gas

No labelling applicable

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Aluminium phosphide	(CAS No) 20859-73-8 (EC no) 244-088-0 (EC index no) 015-004-00-8	56	F; R15 R29 T+; R26/28 R32 N; R50 Xn; R21
Aluminium hydroxide (reaction product on contact with moisture)	(CAS No) 21645-51-2 (EC no) 244-492-7	>= 50	Not classified
Phosphine / Hydrogen phosphide (reaction product on contact with moisture)	(CAS No) 7803-51-2 (EC no) 232-260-8 (EC index no) 015-181-00-1	25 - 50	F+; R12 F; R17 T+; R26 C; R34 N; R50
Ammonium Carbamate	(CAS No) 1111-78-0 (EC no) 214-185-2	>= 10	Xn; R22 Xi; R38 Xi; R41

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Ammonia (reaction product on contact with moisture)	(CAS No) 7664-41-7 (EC no) 231-635-3 (EC index no) 007-001-00-5	2.5 - 10	Not classified

Name	Product identifier	Specific concentration limits
Aluminium phosphide	(CAS No) 20859-73-8 (EC no) 244-088-0 (EC index no) 015-004-00-8	(C >= 0.25) N;R50

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Aluminium phosphide	(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:dust,mist), H330 Aquatic Acute 1, H400 (M=100)
Aluminium hydroxide (reaction product on contact with moisture)	(CAS No) 21645-51-2 (EC no) 244-492-7	>= 50	Not classified
Phosphine / Hydrogen phosphide (reaction product on contact with moisture)	(CAS No) 7803-51-2 (EC no) 232-260-8 (EC index no) 015-181-00-1	25 - 50	Flam. Gas 1, H220 Press. Gas Acute Tox. 2 (Inhalation), H330 Skin Corr. 1B, H314 Aquatic Acute 1, H400
Ammonium Carbamate	(CAS No) 1111-78-0 (EC no) 214-185-2	>= 10	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318
Ammonia (reaction product on contact with moisture)	(CAS No) 7664-41-7 (EC no) 231-635-3 (EC index no) 007-001-00-5	2.5 - 10	Flam. Gas 2, H221 Compressed gas, H280 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Inhalation:gas), H331 Skin Corr. 1A, H314 Aquatic Acute 1, H400

Full text of R- and H-phrases: 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. Remove patient to fresh air, keep warm and at rest. Apply supportive measures if necessary. DO NOT give mouth-to-mouth resuscitation. Seek medical advice immediately.

First-aid measures after skin contact : Remove immediately, brush or shake any residues from clothing and skin in a well-ventilated area. Allow clothes to aerate for a number of hours prior to machine washing. Seek medical advice immediately.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention.

First-aid measures after ingestion : Immediately call a POISON CENTER or doctor/physician.

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

Symptoms/injuries : 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.

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

Further information on all Rentokil Initial formulations is lodged with the local National Poisons Information Service.

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 : 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. 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 : Open the flask outdoors immedately before use and ensure it is pointing away from you. Read the product label carefully for further instructions about handling and usage.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in original flask in a cool dry ventilated place out of reach of children and away from food drink and animal feeding stuffs. USE ALL CONTENTS OF THE FLASK. DO NOT RE-SEAL. 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

Aluminium phosphide (20859-73-8)		
EU	Local name	Phosphine
EU	IOELV TWA (mg/m³)	0.14 mg/m³
EU	IOELV STEL (mg/m³)	0.28 mg/m³
Ammonia (reaction product on contact with moisture) (7664-41-7)		
EU	Local name	Ammonia, anhydrous
EU	IOELV TWA (mg/m³)	14 mg/m³
EU	IOELV TWA (ppm)	20 ppm
EU	IOELV STEL (mg/m³)	36 mg/m³
EU	IOELV STEL (ppm)	50 ppm
Ireland	Local name	Ammonia, anhydrous
Ireland	OEL (8 hours ref) (mg/m³)	14 mg/m³
Ireland	OEL (8 hours ref) (ppm)	20 ppm
Ireland	OEL (15 min ref) (mg/m3)	36 mg/m³
Ireland	OEL (15 min ref) (ppm)	50 ppm
Ireland	Notes (IE)	IOELV
United Kingdom	Local name	Ammonia, anhydrous
United Kingdom	WEL TWA (mg/m³)	18 mg/m³
United Kingdom	WEL TWA (ppm)	25 ppm
United Kingdom	WEL STEL (mg/m³)	25 mg/m³
United Kingdom	WEL STEL (ppm)	35 ppm

8.2. Exposure 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:
Hand protection	:	Wear gloves.
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).
Skin and body protection	:	Wear suitable protective clothing.
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).
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	:	No data available
pH	:	No data available
Relative evaporation rate (butylacetate=1)	:	No data available
Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	-87.4 °C Phosphine
Flash point	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	Extremely flammable gas
Vapour pressure	:	No data available
Relative vapour density at 20 °C	:	1.2 Phosphine
Relative density	:	No data available
Density	:	2.3 g/cm³ aluminium phosphide
Solubility	:	No data available
Log Pow	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosive properties	:	No data available
Oxidising properties	:	No data available
Explosive limits	:	1.79 - 1.89 vol % Hydrogen phosphide

9.2. Other information

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 toxicological effects

Acute toxicity : Oral: Fatal if swallowed. Dermal: Toxic in contact with skin. 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 (mg/l)	0.015 mg/l/4h Hydrogen phosphide (phosphine)
LC50 inhalation rat (ppm)	11 ppm/4h Hydrogen phosphide (phosphine)
ATE CLP (oral)	8.700 mg/kg bodyweight
ATE CLP (dermal)	500.000 mg/kg bodyweight
ATE CLP (gases)	11.000 ppmv/4h
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)	5.000 mg/kg bodyweight
ATE CLP (dermal)	300.000 mg/kg bodyweight
ATE CLP (dust,mist)	0.005 mg/l/4h

Ammonium Carbamate (1111-78-0)	
LD50 oral	681 - 1470 mg/kg
ATE CLP (oral)	500.000 mg/kg bodyweight

Phosphine / Hydrogen phosphide (reaction product on contact with moisture) (7803-51-2)	
ATE CLP (gases)	100.000 ppmv/4h
ATE CLP (vapours)	0.500 mg/l/4h
ATE CLP (dust,mist)	0.050 mg/l/4h

Ammonia (reaction product on contact with moisture) (7664-41-7)	
LC50 inhalation rat (ppm)	2000 ppm/4h
ATE CLP (gases)	2000.000 ppmv/4h
ATE CLP (vapours)	3.000 mg/l/4h
ATE CLP (dust,mist)	0.500 mg/l/4h

Skin corrosion/irritation : Not classified

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

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

PHOSTOXIN	
LC50 fish 1	0.0097 ppm
EC50 Daphnia 1	0.2 mg/l

Aluminium phosphide (20859-73-8)	
LC50 fish 1	0.0097 mg/l

Ammonia (reaction product on contact with moisture) (7664-41-7)	
LC50 other aquatic organisms 1	25.4 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

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : All pesticides must be disposed of as hazardous waste. Never wash out empty flasks with water. Once pest control activity has been completed, ensure that all residues of product are removed. Empty the flasks completely at site of use by upending and tapping the flask so that any remaining powder residue is deposited in the treatment burrow or run. Check that the flask is visibly empty. If residue remains repeat upending and tapping until fully removed. Ensure that the empty flask is kept dry. Tap out any residues from the applicator at the site of use as for the flasks. Disposal of waste flasks: Handle and store empty flasks as if they still contained product. Flasks must never be rinsed or cleaned. Screw the cap back onto the empty flask loosely (this action should only be carried out prior to transporting to designated storage area, flasks should not be re-capped if they still contain tablets, ensure that all product is used during the pest control treatment), this will help to ensure that any gas generated within the flask during transport from the treatment area is contained. Place the flask into a suitable bag. Label the bag and place the written confirmation that the waste treatment methods have been completed, date and sign. Seal the bag using tie wraps. Once at designated storage area and prior to waste collection, whilst wearing a full-face respirator with appropriate gas filter cartridge (which also meets P3 standard for particulates) or SCBA (contact your PPE supplier for advice on suitable PPE and RPE) and whilst wearing suitable gloves and skin protection such as rubber/PVC gloves and coveralls, remove the flask from the sealed bag. Remove caps, taking care and pointing flask away from face and other people, as any generated gas may be present. Invert the flasks on a mesh shelf in a secure caged area until all gas has vented from the flask. We recommend venting the flasks for 48 hours. Once venting is complete, re-cap flask and replace into and seal the plastic bag. Record on the written confirmation that the flasks have been vented. Store in a designated secure storage area until collection by a licensed waste-disposal contractor.
Disposal of used PPE (gloves, coveralls, respirators): Place used PPE in plastic bags and seal. Dispose of as hazardous waste, EWC code 15 02 02*.
Disposal of unusable product: Pack and seal, using tie wraps any flasks and/or cartons containing the product, which has been subject to damage or is otherwise unusable into a clear plastic bag. Consult Rentokil for advice on disposal.
Disposal of applicators: Exposure to atmospheric moisture should be sufficient to ensure that applicators will not be contaminated. However, do not carry or keep contaminated applicators in confined spaces. If the applicator is to be disposed, place in a plastic bag and seal with tie wraps. Dispose of the applicator as hazardous waste EWC code 15 01 10*.

SECTION 14: Transport information

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

14.1. UN number

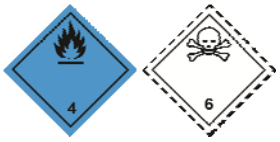
UN-No. (ADR) : 1397
UN-No.(IATA) : 1397
UN-No. (IMDG) : 1397
UN-No.(ADN) : 1397

14.2. UN proper shipping name

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

14.3. Transport hazard class(es)

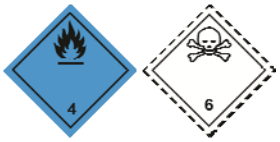
Class (ADR) : 4.3
Classification code (ADR) : WT2
Class (IATA) : 4.3
Class (IMDG) : 4.3
Class (ADN) : 4.3
Classification code (ADN) : WT2
Subsidiary risks (ADR) : 6.1
Subsidiary risk (IMDG) : 6.1
Danger labels (ADR) : 4.3, 6.1



Division (IATA) : 4.3
Hazard labels (IATA) : 4.3, 6.1

Danger labels (IMDG) : 4.3, 6.1

Danger labels (ADN) : 4.3, 6.1



14.4. Packing group

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

14.6.1. Overland transport

Classification code (ADR) : WT2
Special provisions (ADR) : 507
Transport category (ADR) : 1
Tunnel restriction code (ADR) : E
Limited quantities (ADR) : 0
Excepted quantities (ADR) : E0
EAC code : 4W

14.6.2. 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
Stowage and segregation (IMDG)	:	Under deck in a mechanically ventilated space.?Clear of living quarters.?'Separated from' acids.
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.

14.6.3. Air transport

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

14.6.4. Inland waterway transport

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
Carriage prohibited (ADN)	:	No

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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

Contains no substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances.

Seveso Information :

15.1.2. National regulations

Germany

Water hazard class (WGK) : 2 - hazard to waters

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

Acute Tox. 1 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 1
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2
Acute Tox. 2 (Oral)	Acute toxicity (oral), Category 2
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1

Compressed gas	Gases under pressure : Compressed gas
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Flam. Gas 1	Flammable gases, Category 1
Flam. Gas 2	Flammable gases, Category 2
Press. Gas	Gases under pressure
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Water-react. 1	Substances and Mixtures which, in contact with water, emit flammable gases, Category 1
H220	Extremely flammable gas
H221	Flammable gas
H260	In contact with water releases flammable gases which may ignite spontaneously
H280	Contains gas under pressure; may explode if heated
H300	Fatal if swallowed
H302	Harmful if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H330	Fatal if inhaled
H331	Toxic if inhaled
H400	Very toxic to aquatic life
EUH029	Contact with water liberates toxic gas
EUH032	Contact with acids liberates very toxic gas
R12	Extremely flammable
R15	Contact with water liberates extremely flammable gases
R17	Spontaneously flammable in air
R21	Harmful in contact with skin
R22	Harmful if swallowed
R26	Very toxic by inhalation
R26/28	Very toxic by inhalation and if swallowed
R29	Contact with water liberates toxic gas
R32	Contact with acids liberates very toxic gas
R34	Causes burns
R38	Irritating to skin
R41	Risk of serious damage to eyes
R50	Very toxic to aquatic organisms
C	Corrosive
F	Highly flammable
F+	Extremely flammable
N	Dangerous for the environment
T+	Very toxic
Xi	Irritant
Xn	Harmful

RI - SDS EU (REACH Annex II)

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.

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