

SAFETY DATA SHEET

Powder Extinguisher

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

<i>Trade name:</i>	Powder Extinguisher
<i>Other names / Synonyms:</i>	Pulversläckare PE1HR-A, PE2HR-A, PE2CR-A, PE4HR-A, PE4CR-A, PE6XN, PE6HR-A, PE6CR-A, PE12HR-A, PE12CR-A, PE6HR-C
<i>Product no.:</i>	600119-60, 600123-60, 600144-60, 600150-60, 600159-60, 600160-60, 600168, 600169, 600170-60, 600171-60, 600177, 600178, 600179, 600181, 600143-60, 600225

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

<i>Relevant identified uses of the substance or mixture:</i>	Fire extinguishing
<i>Uses advised against :</i>	None known.

1.3. Details of the supplier of the safety data sheet

<i>Company and address:</i>	GPBM Nordic AB Sörredsvägen 113 SE-41878 Göteborg
<i>Contact person:</i>	Frank Willy Ottesen
<i>Revision:</i>	30/09/2024
<i>SDS Version:</i>	1.0

1.4. Emergency telephone number

Healthcare professionals: Dial 0344 892 0111 to reach The National Poisons Information Service (NPIS) (24 hour service)
General public:
England - Dial 111 to reach NHS 111 (24 hour service)
Scotland - Dial 112 to reach NHS 24 (24 hour service)
Wales - Dial 111 or 0845 4647 to reach NHS Direct (24 hour service)
See section 4 "First aid measures".
112 - European emergency number (24/7, anywhere in the EU) to reach emergency medical services or the fire brigade

SECTION 2: HAZARDS IDENTIFICATION

Classified according to Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

2.1. Classification of the substance or mixture

Press. Gas (Comp.) ; H280, Contains gas under pressure; may explode if heated.

2.2. Label elements

Hazard pictogram(s):



Signal word:

Warning

Hazard statement(s):

Contains gas under pressure; may explode if heated.
(H280)

Precautionary statement(s):

General:

-

Prevention:

-

Response:

-

Storage:

Protect from sunlight. Store in a well-ventilated place.
(P410+P403)

Disposal:

-

Hazardous substances:

None known.

Additional labelling:

Not applicable.

2.3. Other hazards

Dust may irritate throat and respiratory system and cause coughing.

Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.

Dust may give mechanical eye irritation.

Additional warnings:

In the event of leaks, high concentrations of gases can quickly form. They can be toxic, asphyxiating, or explosive. This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification. This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2023/707.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable. This product is a mixture.

3.2. Mixtures

Does not contain any substances required to report

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

[1] European occupational exposure limit.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

<i>General information:</i>	The product is an article and is unlikely to be of any chemical risk.
<i>Inhalation:</i>	Exposure is not likely due to the physical state of the product (article).
<i>Skin contact:</i>	Exposure is not likely due to the physical state of the product (article).
<i>Eye contact:</i>	Exposure is not likely due to the physical state of the product (article).
<i>Ingestion:</i>	Exposure is not likely due to the physical state of the product (article).
<i>Burns:</i>	Rinse with water until pain stops then continue to rinse for 30 minutes.

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

Dust may give mechanical eye irritation.
Ingestion may cause discomfort.

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

Treat symptomatically.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

The product is an extinguishing agent.

5.2. Special hazards arising from the substance or mixture

Contains gas under pressure; may explode if heated.
Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

Hazchem Code: None

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Accidental releases always pose a serious risk of fire or explosion.
Storages not yet ignited must be cooled by water mist. Remove flammable materials if

According to REACH Regulation (EC) No 1907/2006, as retained and amended by SI 2019/758 and SI 2020/1577

conditions allow it. Ensure sufficient ventilation.
 Avoid inhalation of dust.
 Avoid the suspension of dust in the air.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.
 Keep unauthorized persons away from the spill

6.3. Methods and material for containment and cleaning up

Not applicable due to the physical state of the product (article).
 Minor spills are collected with a cloth. Collection and disposal of the material shall be done with minimum creation of dust. Sweep and collect. Shall be contained in suitable and tightly closed disposal containers.

6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.
 See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Smoking, drinking and consumption of food is not allowed in the work area.
 See section 8 "Exposure controls/personal protection" for information on personal protection.
 Avoid inhalation of dust.
 Avoid the suspension of dust in the air.

7.2. Conditions for safe storage, including any incompatibilities

Pressurized gas packs (spray cans, aerosol cans) must be stored behind a wire mesh, which allows gases to escape and holds back packs flying around.

<i>Recommended storage material:</i>	Keep only in original packaging.
<i>Storage conditions:</i>	No specific requirements
<i>Incompatible materials:</i>	Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Phosphorus pentoxide
 Long term exposure limit (8 hours) (mg/m³): 1
 Short term exposure limit (15 minutes) (mg/m³): 2

Ammonia
 Long term exposure limit (8 hours) (ppm): 25
 Long term exposure limit (8 hours) (mg/m³): 18
 Short term exposure limit (15 minutes) (ppm): 35
 Short term exposure limit (15 minutes) (mg/m³): 25

In a fire, small amounts of phosphorus pentoxide and ammonia can be formed.
 Contains no substances with occupational exposure limit values.

According to REACH Regulation (EC) No 1907/2006, as retained and amended by SI 2019/758 and SI 2020/1577

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002.
EH40/2005 Workplace exposure limits (Fourth Edition 2020).

DNEL

No data available.

PNEC

No data available.

8.2. Exposure controls

Apply general control to prevent unnecessary exposure

General recommendations: Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios: There are no exposure scenarios implemented for this product.

Exposure limits: Occupational exposure limits have not been defined for the substances in this product.

Appropriate technical measures: Adequate ventilation must be ensured for all gases. Where natural ventilation is not possible (cellar rooms), artificial ventilation must be installed. It is advantageous to store it in a lattice shed outdoors, as ventilation is no longer necessary in this case.
Exposure is not likely due to the physical state of the product (article).

Hygiene measures: In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

Measures to avoid environmental exposure: No special when used as intended.

Individual protection measures, such as personal protective equipment

Generally: Use only UKCA marked protective equipment.

Respiratory Equipment:

Type	Class	Colour	Standards	
Dust mask			EN143	

Skin protection:

Recommended	Type/Category	Standards	
Dedicated work clothing should be worn.	-	-	

Hand protection:
No specific requirements.

Eye protection:

According to REACH Regulation (EC) No 1907/2006, as retained and amended by SI 2019/758 and SI 2020/1577

Type	Standards	
Wear dust resistant safety goggles where there is danger of eye contact.	EN166	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<i>Physical state:</i>	Article
<i>Colour:</i>	No data available
<i>Odour / Odour threshold:</i>	None
<i>pH:</i>	-
<i>pH in solution:</i>	4,5 (%)
<i>Density (g/cm³):</i>	No data available
<i>Relative density:</i>	No data available
<i>Kinematic viscosity:</i>	Not applicable - product is a solid
<i>Particle characteristics:</i>	No data available

Phase changes

<i>Melting point/Freezing point (°C):</i>	197 °C
<i>Softening point/range (°C):</i>	Not applicable due to the physical state of the product (article).
<i>Boiling point (°C):</i>	Not applicable - product is a solid
<i>Vapour pressure:</i>	Not applicable - product is a solid
<i>Relative vapour density:</i>	Not applicable due to the physical state of the product (article).
<i>Decomposition temperature (°C):</i>	No data available

Data on fire and explosion hazards

<i>Flash point (°C):</i>	Not applicable - product is a solid
<i>Flammability (°C):</i>	The material is not combustible.
<i>Auto-ignition temperature (°C):</i>	Not applicable
<i>Lower and upper explosion limit (% v/v):</i>	Not applicable due to the physical state of the product (article).

Solubility

<i>Solubility in water:</i>	No data available
<i>n-octanol/water coefficient (LogKow):</i>	Not applicable
<i>Solubility in fat (g/L):</i>	No data available

9.2. Other information

<i>Sensitivity to shock:</i>	No
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According to REACH Regulation (EC) No 1907/2006, as retained and amended by SI 2019/758 and SI 2020/1577

<i>Evaporation rate (n-butylacetate = 100):</i>	Not applicable - product is a solid
<i>Oxidizing properties:</i>	Not oxidizing.
<i>Other physical and chemical parameters:</i>	Dissociation constant in water (pKa): 9.25 (25 °C) (CAS 7722-76-1)

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Moisture

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 as retained and amended in UK law

Acute toxicity

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Serious eye damage/irritation

Based on available data, the classification criteria are not met.

Respiratory sensitisation

Based on available data, the classification criteria are not met.

Skin sensitisation

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

According to REACH Regulation (EC) No 1907/2006, as retained and amended by SI 2019/758 and SI 2020/1577

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Long term effects

None known.

Endocrine disrupting properties

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

Other information

Dust may give mechanical eye irritation.

Dust may irritate throat and respiratory system and cause coughing.

Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

No data available.

12.2. Persistence and degradability

Based on available data, the classification criteria are not met.

12.3. Bioaccumulative potential

Based on available data, the classification criteria are not met.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

12.6. Endocrine disrupting properties

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

12.7. Other adverse effects

None known.

The chemical contains phosphorus. The supply of phosphorus can cause unwanted algae growth in water systems.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Product is not covered by regulations on dangerous waste.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

According to REACH Regulation (EC) No 1907/2006, as retained and amended by SI 2019/758 and SI 2020/1577

EWC code

16 05 09 Discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08

Specific labelling

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: TRANSPORT INFORMATION

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other informati on:
ADR	UN1044	FIRE EXTINGUISHERS with compressed or liquefied gas	Transport hazard class: 2 Label: 2.2 Classification code: 6A 	-	No	Limited quantities: 120 ml Tunnel restriction code: (E) See below for additional information.
IMDG	UN1044	FIRE EXTINGUISHERS with compressed or liquefied gas	Transport hazard class: 2 Label: 2.2 Classification code: 6A 	-	No	Limited quantities: 120 ml EmS: F-C S-V See below for additional information.
IATA	UN1044	FIRE EXTINGUISHERS with compressed or liquefied gas	Transport hazard class: 2 Label: 2.2 Classification code: 6A 	-	No	See below for additional information.

* Packing group

** Environmental hazards

Additional information

This product is within scope of the regulations of transport of dangerous goods.
 ADR / See Table A, section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.
 IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.
 IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.
 Hazchem Code: None

14.6. Special precautions for user

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15: REGULATORY INFORMATION

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

<i>Restrictions for application:</i>	No special.
<i>Demands for specific education:</i>	No specific requirements.
<i>Control of Major Accident Hazards (COMAH) - Categories / dangerous substances:</i>	Ammonia
<i>UK-REACH, Annex XVII:</i>	Not applicable.
<i>Additional information:</i>	Not applicable.
<i>Sources:</i>	Control of Major Accident Hazards (COMAH) Regulations 2015. Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law. Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law. Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

15.2. Chemical safety assessment

No

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
 ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
CE = Conformité Européenne (European conformity)
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
CSA = Chemical Safety Assessment
CSR = Chemical Safety Report
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EINECS = European Inventory of Existing Commercial chemical Substances
ES = Exposure Scenario
EUH statement = CLP-specific Hazard statement
EuPCS = European Product Categorisation System
EWC = European Waste Catalogue
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
GWP = Global warming potential
IARC = International Agency for Research on Cancer (IARC)
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SCL = A specific concentration limit
SVHC = Substances of Very High Concern
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TWA = Time weighted average
UN = United Nations
UVBC = Unknown or variable composition, complex reaction products or of biological materials
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

Additional information

In accordance with UK-REACH, a safety data sheet is not required for this product. This safety data sheet has been created on a voluntary basis to distribute relevant information as required by UK-REACH.

The classification of the mixture in regard to physical hazards has been based on experimental data.

The safety data sheet is validated by

Kiwa Technical Consulting AB

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product.

According to REACH Regulation (EC) No 1907/2006, as retained and amended by SI 2019/758 and SI 2020/1577

Information in this safety data sheet cannot be used as a product specification.
Country-language: GB-en