

SAFETY DATA SHEET

AVD aerosol

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

1.1. Product identifier

Trade name: AVD aerosol Product no.: 600122

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

Relevant identified uses of the Fire extinguishing of lithium ion batteries

substance or mixture:

Uses advised against: None known.

1.3. Details of the supplier of the safety data sheet

Company and address: GPBM Nordic AB

Argongatan 2B SE-431 53 Mölndal

Contact person: Frank Willy Ottesen

Revision: 30/01/2024

SDS Version: 2.0

1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h 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

Aerosol 3; H229, Pressurised container: May burst if heated.

2.2. Label elements

Hazard pictogram(s): Not applicable.

Signal word: Warning

Hazard statement(s): Pressurised container: May burst if heated. (H229)

Precautionary statement(s):

General: Keep out of reach of children. (P102)

Prevention: Keep away from heat, hot surfaces, sparks, open flames

and other ignition sources. No smoking. (P210)



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

Do not pierce or burn, even after use. (P251)

Response: -

Storage: Protect from sunlight. Do no expose to temperatures

exceeding 50 °C/122°F. (P410+P412)

Disposal: -

Hazardous substances: None known.

Additional labelling: Not applicable.

2.3. Other hazards

Additional warnings: 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) 2018/605.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable. This product is a mixture.

3.2. Mixtures

| Product/substance | Identifiers | % w/w | Classification | Note |
|-------------------|--|----------|----------------|------|
| Water | CAS No.: 7732-18-5 EC No.: 231-791-2 UK-REACH: Index No.: | 5 - 95% | | |
| Vermiculite | CAS No.: 1318-00-9 EC No.: 310-127-6 UK-REACH: Index No.: | 5 - 45 % | | |

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

Other information

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SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information: In the case of accident: Contact a doctor or casualty

department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's



condition or if the symptoms persist. Never give an

unconscious person water or other drink.

Inhalation: Upon breathing difficulties or irritation of the respiratory

tract: Bring the person into fresh air and stay with him/her.

Remove contaminated clothing and shoes immediately. Skin contact:

> Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or

thinners.

If in eyes: Flush eyes with water or saline water (20-30 °C) Eye contact:

for at least 5 minutes. Remove contact lenses. Seek

medical assistance and continue flushing during transport.

Ingestion: If the person is conscious, rinse the mouth with water and

stay with the person. Never give the person anything to

drink.

In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid

inhalation of or choking on vomited material.

Not applicable. Burns:

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

None known.

May cause mechanical irritation of the eyes.

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

Irrelevant. The product is an extinguishing agent.

5.2. Special hazards arising from the substance or mixture

Pressurised container. In a fire or if heated, a pressure increase will occur and the container may

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 fireextinguishing 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

No specific requirements.

Contaminated areas may be slippery.

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

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

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

Do not pierce or burn, even after use.

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.

7.2. Conditions for safe storage, including any incompatibilities

Recommended storage material: Always store in containers of the same material as the

original container.

Storage temperature: 5 - 25 °C

Incompatible materials: 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

No substances are listed in the national list of substances with an occupational exposure limit.

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: Apply standard precautions during use of the product.

Avoid inhalation of gas or dust.

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 specific requirements.

Individual protection measures, such as personal protective equipment

Generally: Use only UKCA marked protective equipment.

Respiratory Equipment:

| Work situation | Туре | Class | Colour | Standards | |
|---|-----------------------------------|-------|--------|-----------|--|
| | No special when used as intended. | | | | |
| When there is risk of formation of mist/aerosol | | P2 | White | EN143 | |

Skin protection:

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

Hand protection:

| Material | Glove thickness (mm) | Breakthrough time (min.) | Standards | |
|------------------------|-------------------------|--------------------------|--------------|--|
| Nitrile | ≥ 0,3 | ≥ 60 | EN374, EN420 | |
| Latex | ≥ 0,3 | ≥ 60 | EN374, EN420 | |
| Butyl | ≥0,3 | > 60 | EN374, EN420 | |
| Neoprene (Neoprene) | ≥ 0,3 | > 60 | EN374, EN420 | |
| Vinyl/PVC | ≥ 0,3 | > 60 | EN374, EN420 | |

Eye protection:



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

| Туре | Standards | |
|----------------|-----------|--|
| Safety glasses | EN166 | |

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state: Aerosol

Colour: Golden / Brownish

Odour / Odour threshold: None

pH: -

pH in solution: ~ 8 -9 (%)

Density (g/cm³):

Relative density: ~ 1,1

Kinematic viscosity: Testing not relevant or not possible due to the nature of

the product.

Particle characteristics: Testing not relevant or not possible due to the nature of

the product.

Phase changes

Melting point/Freezing point (°C): Testing not relevant or not possible due to the nature of

the product.

Softening point/range (waxes and

pastes) (°C):

Does not apply to aerosols.

Boiling point (°C): Testing not relevant or not possible due to the nature of

the product.

Vapour pressure: Testing not relevant or not possible due to the nature of

the product.

Relative vapour density: Testing not relevant or not possible due to the nature of

the product.

Decomposition temperature (°C): Testing not relevant or not possible due to the nature of

the product.

Data on fire and explosion hazards

Flash point (°C): Does not apply to aerosols.

Flammability (°C): Testing not relevant or not possible due to the nature of

the product.

Auto-ignition temperature (°C): Testing not relevant or not possible due to the nature of

the product.

Lower and upper explosion limit (%

//v):

Testing not relevant or not possible due to the nature of

the product.

Solubility

Solubility in water: Testing not relevant or not possible due to the nature of



the product.

n-octanol/water coefficient (LogKow): Testing not relevant or not possible due to the nature of

the product.

Solubility in fat (g/L): Testing not relevant or not possible due to the nature of

the product.

9.2. Other information

Oxidizing properties: Not oxidizing.

Other physical and chemical No data available.

parameters:

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

None known.

10.5. Incompatible materials

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

10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

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

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

None known.

Causes mild skin irritation

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.

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.

EWC code



16 05 05

Gases in pressure containers other than those mentioned in 16 05 04

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 informat ion: |
|------|-----------------|---------------------------------|--|-------------|---------------|--|
| ADR | UN1950 | AEROSOLS | Transport hazard class: 2 Label: 2.2 Classification code: 5A | - | No | Limited quantitie s: 1 L Tunnel restrictio n code: (E) See below for additiona I informati on. |
| IMDG | UN1950 | AEROSOLS | Transport hazard class: 2 Label: 2.2 Classification code: 5A | - | No | Limited quantitie s: 1 L EmS: F-D S-U See below for additiona I informati on. |
| IATA | UN1950 | AEROSOLS | Transport hazard class: 2 Label: 2.2 Classification code: 5A | - | No | See below for additiona I informati on. |

^{*} Packing group

Additional information

^{**} Environmental hazards



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.

This product is within scope of the regulations of transport of dangerous goods.

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

Restrictions for application: No special.

Demands for specific education: No specific requirements.

SEVESO - Categories / dangerous Not applicable.

substances:

Additional information: Not applicable.

Sources: The Aerosol Dispensers Regulations 2009 No. 2824, amended in 2014 (No. 1130) and in 2018 (No. 29). 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

Nο

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

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

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

Not applicable.

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 blue 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.

Information in this safety data sheet cannot be used as a product specification.

Country-language: GB-en