

SAFETY DATA SHEET

Ammonium metavanadate 99,9+% extra pure

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

Compiled in accordance with REACH Regulation (EC) No 1907/2006, as retained and amended in UK law

1.1. Product identifier

Trade name: Ammonium metavanadate 99,9+% extra pure

Product no.: AMM45

Other means of identification: EC No.: 232-261-3

CAS No.: 7803-55-6

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

Relevant identified uses of the substance or mixture: Laboratory use Uses advised against: None known.

1.3. Details of the supplier of the safety data sheet

Company and address: Laboratorium discounter

Zandvoortstraat 75 1976BN Ijmuiden Netherlands

Tel: +31 255 700 210

www.laboratoriumdiscounter.nl/en/

E-mail: info@laboratoriumdiscounter.nl

Revision: 02/03/2023

SDS Version: 1.0

1.4. Emergency telephone number

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

See section 4 "First aid measures".

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Acute Tox. 3; H301, Toxic if swallowed.

Eye Irrit. 2; H319, Causes serious eye irritation.

Acute Tox. 4; H332, Harmful if inhaled.

Repr. 2; H361, Suspected of damaging fertility or the unborn child.

STOT RE 1; H372, Causes damage to organs through prolonged or repeated exposure.

Aquatic Chronic 2; H411, Toxic to aquatic life with long lasting effects.

2.2. Label elements

Hazard pictogram(s):



Signal word: Danger

Hazard statement(s): Toxic if swallowed. (H301)

Causes serious eye irritation. (H319)

Harmful if inhaled. (H332)

Suspected of damaging fertility or the

unborn child. (H361)

Causes damage to organs through prolonged or repeated exposure. (H372) Toxic to aquatic life with long lasting effects.

(H411)

Safety statement(s):

General:

Prevention: Obtain special instructions before use. (P201)

Wash hands thoroughly after handling.

(P264)

Wear eye protection/protective gloves/protective clothing. (P280)

Response: IF SWALLOWED: Immediately call a POISON

CENTER/doctor. (P301+P310)

Specific treatment (see instructions on this

label). (P321)

Storage:

Disposal: Dispose of contents/container in accordance

with local regulation. (P501)

Hazardous substances: Ammonium metavanadate

Additional labelling: Not applicable.

2.3. Other hazards

Additional warnings: This mixture/product does not contain any

substances considered to meet the criteria classifying them as PBT and/or vPvB. 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

Product/substance	Identifiers	% w/w	Classification	Note
Ammonium	CAS No.: 7803-55-6	95-100%	Acute Tox. 3, H301	[3]
metavanadate	EC No.: 232-261-3		Eye Irrit. 2, H319	
	UK-REACH:		Acute Tox. 4, H332	
	Index No.:		Repr. 2, H361	
			STOT RE 1, H372	
			Aquatic Chronic 2, H411	

3.2. Mixtures

Not applicable. This product is a substance.



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

Other information

[3] According to UK REACH, Annex XVII, the substance is subject to restrictions.

ECTI	ECTION 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 injured person into fresh air. Make sure the injured person is continuously monitored. Prevent shock by keeping the injured person warm and calm. If breathing ceases, give mouth-to-mouth resuscitation. If unconscious, roll the injured person into recovery position. Call an ambulance.			
	Skin contact:	Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners. If skin irritation occurs: Get medical advice/attention.			
	Eye contact:	Upon irritation of the eye: Remove contact lenses. Flush eyes immediately with plenty of water or isotonic water (20-30 °C) for at least 5 minutes and continue until irritation stops. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.			
	Ingestion:	In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting unless this is recommended by a doctor. Hold head facing down to prevent vomit returning mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If			

Burns:

recovery position. Call an ambulance.

Not applicable.



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

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

IF exposed or concerned:

Get immediate medical advice/attention.

Information to medics:

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

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist. Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture

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. If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are: Nitrogen oxides (NO_x)

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: 2Z

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures Avoid direct contact with spilled substances.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

6.3. Methods and material for containment and cleaning up

Collect spills carefully. Moist the material with water in order to prevent the formation and propagation of dust.

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

It is recommended to install waste collection trays in order to prevent emissions to the waste

water system and surrounding environment.

Avoid direct contact with the product.

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

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Powder trickling out onto the floor or onto other containers must be prevented.

Recommended storage material:

Storage temperature:

Room temperature 15 to 25°C

Incompatible materials:

Keep only in original packaging.

Keep only in original packaging.

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

Control is unnecessary if the product is used as intended.

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: Do not recirculate outlet air that contain the

substances.

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. Always

wash hands, forearms and face.

Measures to avoid environmental exposure: Keep damming materials near the workplace.

If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

Generally: Use only UKCA marked protective equipment.

Respiratory Equipment:

Туре	Class	Colour	Standards	
SL	P3	White	EN149	



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	> 480	EN374-2, EN374-3, EN388	

Eye protection:

Туре	Standards	
Safety glasses with side shields.	EN166	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state: Powder Colour: White

Odour / Odour threshold: Testing not relevant or not possible due to

the nature of the product.

pH: Testing not relevant or not possible due to

the nature of the product.

Density (g/cm^3) : 2.3

Kinematic viscosity: Does not apply to solids.

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 solids.

Boiling point (°C): Does not apply to solids.

Vapour pressure: Testing not relevant or not possible due to

the nature of the product.

Relative vapour density: Does not apply to solids.

Decomposition temperature (°C): 200

Data on fire and explosion hazards

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

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/v): Does not apply to solids.

Solubility

Solubility in water: Testing not relevant or not possible due to

the nature of the product.

n-octanol/water coefficient: 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

Other physical and chemical parameters: No data available.

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

Keep only in original packaging.

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

Toxic if swallowed.

Harmful if inhaled.

Skin corrosion/irritation

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

Serious eye damage/irritation

Causes serious eye irritation.

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

Suspected of damaging fertility or the unborn child.

STOT-single exposure

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

STOT-repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard

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

11.2. Information on other hazards

Long term effects

Reproductive toxicity: This product contains teratogenic substances, which may produce anomalies and/or developmental defects to the human offspring. Adverse effects include: death, growth retardation, congenital disorders, delayed mental development, and functional disorders. This product contains reprotoxic substances, which may harm the reproductive capacity. Adverse effects include: sterility, effects on the sexual function, lowered effective fertility and dysfunctional menstrual cycle.

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

Endocrine disrupting properties

Not applicable.

Other information

None known.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

No data available.

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

12.6. Endocrine disrupting properties

Not applicable.

12.7. Other adverse effects

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.

This product contains substances, which may cause adverse long-term effects to the aquatic environment.



SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Product is covered by the regulations on hazardous waste.

HP 4 - Irritant (skin irritation and eye damage)

HP 5 - Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

HP 6 - Acute toxicity

HP 10 - Toxic for reproduction

HP 14 - Ecotoxic

Dispose of contents/container to an approved waste disposal plant.

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

EWC code

Not applicable.

Specific labelling

Not applicable.

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 information:
ADR	UN2859	AMMONIUM METAVANADATE	Class: 6.1 Labels: 6.1 Classification code: T5	II	Yes	Limited quantities: 500 g Tunnel restriction code: (D/E) See below for additional information.
IMDG	UN2859	AMMONIUM METAVANADATE	Class: 6.1 Labels: 6.1 Classification code: T5	II	Yes	Limited quantities: 500 g EmS: F-A S-A See below for additional information.
IATA	UN2859	AMMONIUM METAVANADATE	Class: 6.1 Labels: 6.1 Classification code: T5	П	Yes	See below for additional information.



	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	Other information:
		6		

^{*} Packing group

Additional information

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: 2Z

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: Restricted to professional users.

People under the age of 18 shall not be

exposed to this product.

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate

exposure, must be considered.

Demands for specific education:

No specific requirements.

SEVESO - Categories / dangerous substances: E2 - ENVIRONMENTAL HAZARDS, Qualifying

quantity (lower-tier): 200 tonnes / (upper-

tier): 500 tonnes

UK-REACH, Annex XVII

Ammonium metavanadate is subject to restrictions, UK-REACH annex XVII (entry 65).

Additional information: Not applicable.

Sources: The Management of Health and Safety at

Work Regulations 1999.

The Health and Safety at Work etc. Act 1974

^{**} Environmental hazards

Regulations 2013.

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

Full text of H-phrases as mentioned in section 3

H301, Toxic if swallowed.

H319, Causes serious eye irritation.

H332, Harmful if inhaled.

H361, Suspected of damaging fertility or the unborn child.

H372, Causes damage to organs through prolonged or repeated exposure.

H411, Toxic to aquatic life with long lasting effects.

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

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

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

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

The classification of the substance/mixture in regard of environmental hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

The safety data sheet is validated by

Chris

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