

Safety Data Sheet

#17862126 · Full 16-section SDS

According to Regulation (EC) No 1907/2006

According to Regulation (EC) No 2020/878

PRODUCT	CAS NUMBER	FORMULA	VERSION	REVISION DATE
Sodium metavanadate	13718-26-8	NaO3V	10	23 Jul 2026

SECTION 1

Identification

Product name	Sodium metavanadate
CAS number	13718-26-8
Chemical formula	NaO3V
Molecular weight	121.93
SMILES	[O-][V](=O)=O.[Na+]
EC / EINECS number	237-272-7
Recommended use & restrictions	For research purposes only. Not suitable for human consumption or veterinary purposes.
Emergency telephone	0344 892 0111 — National Poisons Information Service (NPIS) (United Kingdom — for healthcare professionals (via TOXBASE))

SECTION 2

Hazard identification

**DANGER****CODE HAZARD STATEMENT****H301** Toxic if swallowed**H319** Causes serious eye irritation**H332** Harmful if inhaled**H361f** Suspected of damaging fertility.**H372** Causes damage to organs through prolonged or repeated exposure**H411** Toxic to aquatic life with long lasting effects**CODE PRECAUTIONARY STATEMENT****P260** Do not breathe dust/fume/gas/mist/vapours/spray**P263** Avoid contact during pregnancy/while nursing**P273** Avoid release to the environment**P280** Wear protective gloves/protective clothing/eye protection/face protection**P301+P330+P331** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting**P305+P351+P338** IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do, continue rinsing**Other hazards (e.g. PBT / vPvB, not classified)**

This substance is not classified as PBT or vPvB according to current UK criteria.

SECTION 3

Composition / information on ingredients

Purity / concentration ~100 %**Impurities / stabilising additives** None

SECTION 4

First-aid measures

Inhalation	Move affected person to fresh air and keep warm and at rest. Administer oxygen if breathing is difficult. Place unconscious person in recovery position.
Skin contact	Rinse with water.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Get medical attention if discomfort continues.
Ingestion	Get medical attention immediately. Rinse mouth thoroughly with water. Give small glasses of water or milk to drink. Never give anything by mouth to an unconscious person.
Symptoms / effects & medical attention	Headache, exhaustion, weakness (inhalation); stomach pain, vomiting, severe internal injury (ingestion); dryness of skin (prolonged contact); eye irritation.

SECTION 5

Fire-fighting measures

Suitable extinguishing media	Alcohol-resistant foam, carbon dioxide, dry powder, or water fog.
Unsuitable extinguishing media	Water jet (spreads fire).
Special hazards	Thermal decomposition may produce toxic/corrosive gases: sodium oxides, vanadium/vanadium oxides.
Advice for firefighters	Wear SCBA and protective clothing. Evacuate area. Cool containers with water spray. Avoid aquatic discharge.

SECTION 6

Accidental release measures

Personal precautions & PPE	Wear protective clothing. Avoid inhalation of dust. Do not touch spilled material.
Environmental precautions	Avoid discharge into drains, watercourses, or ground. Avoid aquatic environment release.
Containment & clean-up methods	Collect spillage with shovel/broom. Dispose of waste safely. Flush contaminated area with water. Do not empty into drains.

For specific precautions, see Section 8 and Section 13.

SECTION 7

Handling & storage

Storage temperature	Ambient
Precautions for safe handling	Wear protective clothing. Keep away from food/drink. Keep container tightly sealed. Suspected of damaging fertility/unborn child. Pregnant/breastfeeding women should avoid exposure.
Conditions for safe storage (incompatibilities)	Store away from incompatible materials. Keep locked up, in original container, tightly closed, in a cool, well-ventilated place. Hygroscopic. Store under inert gas.

SECTION 8

Exposure controls / personal protection

Occupational exposure limits (OEL / WEL)	<i>Not applicable</i>
DNEC/PNEC data	<i>Not applicable</i>
Eye / face protection	Safety glasses Wear eye/face protection as recommended. All eye/face protection should comply with EN ISO 16321-1:2022.
Skin / hand protection	Protective gloves/clothing.
Respiratory protection	Full-face respirator Keep self-contained breathing apparatus readily available for emergency use. Provide adequate ventilation. If ventilation is insufficient, suitable respiratory protection must be provided. Respiratory equipment: Reusable Air-Purifying Respirator (APR). Filter type: ABEK. Standard: EN 14387.

SECTION 9

Physical & chemical properties

Density (g/mL)	2.84 g/mL DERIVED FROM: LITERATURE
Flash point	Not applicable
Acidity	Neutral DERIVED FROM: LITERATURE
Appearance / physical state	Not applicable
Colour	Not applicable
Odour	Not applicable
Melting / freezing point	Not applicable
Boiling point	Not applicable
Solubility (water)	Not applicable
pH	Not applicable
Vapour pressure	Not applicable
Partition coefficient (log Pow)	Not applicable
Auto-ignition / decomposition temp	Not applicable

SECTION 10

Stability & reactivity

Chemical stability / reactivity	Not applicable
Conditions to avoid	Not applicable
Incompatible materials	Not specified (see Section 7 for storage precautions).
Hazardous decomposition products	Thermal decomposition may produce toxic/corrosive gases: sodium oxides, vanadium/vanadium oxides.

SECTION 11

Toxicological information

Acute toxicity (LD50 / LC50)	Toxic if swallowed (H301), harmful if inhaled (H332).
Skin corrosion / irritation	Causes serious eye irritation (H319).
Eye corrosion / irritation	<i>Not applicable</i>
Respiratory / skin sensitisation	<i>Not applicable</i>
Carcinogenicity	Suspected of damaging fertility or the unborn child (H361).
Mutagenicity	<i>Not applicable</i>
Reproductive toxicity	<i>Not applicable</i>
STOT (single / repeated exposure)	Causes damage to organs through prolonged/repeated exposure (H372).
Aspiration hazard	<i>Not applicable</i>
Endocrine disruptors	<i>Not applicable</i>

SECTION 12

Ecological information

Aquatic toxicity	Toxic to aquatic life with long-lasting effects (H411).
Persistence & degradability	<i>Not applicable</i>
Bioaccumulative potential	<i>Not applicable</i>
Mobility in soil	<i>Not applicable</i>
PBT / vPvB assessment	Not classified as PBT or vPvB.

SECTION 13

Disposal considerations

Waste treatment / disposal methods	<i>Not applicable</i>
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SECTION 14

Transport information

UN number	UN3285
Proper shipping name	VANADIUM COMPOUND, N.O.S
Class	6.1
Packing group	III
Transport category	2
Tunnel code	(E)
Packing instruction (ADR)	P002
Packing instruction (IMDG)	P002
Environmental hazards	Yes.
Special precautions for user	None



SECTION 15

Regulatory information

REACH code	Y110
UFI code	<i>Not applicable</i>
ECHA notification	<i>Not applicable</i>
Chemical safety assessment carried out?	<i>Not applicable</i>

SECTION 16

Other information

Revision notes / other information	<i>Not applicable</i>
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