

GHS Safety Data Sheet

SDS No. : VVE01CAEG

Date Issued: 2014/02/06

Section 1. Identification of the substance or mixture and of the supplier

1.1 Product Information

Product name: V Vanadium

Product number:	Purity	Form	Size (mm) or Shape
VVE01GB	99%(2N)	grains	flake
VVE04GB	99.9%(3N)	grains	5-1.7
VVE05GB	99.9%(3N)	grains	0.3-0.5
—	99%(2N)	wire	Various sizes
VVE01RB	99.9%(3N)	rod/tablet	φ 10 x 3
VVE02RB	99.9%(3N)	rod/tablet	φ 20 x 3
—	99.9%(3N)	rod/tablet	Various sizes
VVE01CB	99.9%(3N)	chips	10 x 10 x 1
VVE02CB	99.9%(3N)	chips	5 x 5 x 1
—	99.9%(3N)	target	φ 101.6 x 3, φ 152.4 x 3, Various sizes

1.2 Company Information:

Manufacturer : Kojundo Chemical Laboratory Co., Ltd.

1-28, 5-chome, Chiyoda, Sakado-shi, Saitama Japan 350-0284

Phone: +81-49-284-1511 Fax: +81-49-284-1351

Emergency Phone : +81-49-284-1511

Section 2. Hazards identification

GHS Classification

Health Hazards	Environmental Hazards	Physical Hazards
No data available.	No data available.	No data available.

GHS Label: Not applicable

Pictograms or symbols: Not applicable

Warning word: Not applicable

Hazard information: Not applicable

Description of precaution: Not applicable

Additional hazard information :

With respect to additional hazard information, see Section 11.

Section 3. Composition / information on ingredients

Chemical or common name: Vanadium

Chemical formula: V

Single Substance or Mixture: Single substance

Composition: 100%

CAS# : 7440-62-2
RTECS# : YW1355000
TSCA inventory : listed
EINECS : 2311711

Section 4. First aid measures

Eye contact: Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

Skin contact: Promptly flush contaminated skin with soap or mild detergent and water. Contact physician if irritation continues.

Inhalation: Remove the exposed person immediately and provide fresh air. Get medical attention.

Ingestion: Rinse mouth and throat with water. Get medical attention immediately.

Section 5. Fire fighting measures

Extinguishing media: This product cannot catch fire. Use media appropriate for surrounding fire.

Fire fighting: Remove containers to safe place if possible. Protective equipment should be used, if the material is involved in fire.

Section 6. Accidental release measures

Personal Precautions: Workers should use protective wears to prevent contact with the spilt adhesive and inhalation of its vapor/dusts.

Environmental hazard precautions: Shut off leak if without risk. Prevent flow out to river, etc. so as not to badly affect.

Method for containment and cleaning up: Indoor leakage: Ventilate as much as possible until the cleaning is completed. Outdoor leakage: Work from the windward and evacuate the leeward crowd. Gather up, pack in closed container as much as possible. Carefully collect remnant and move to a safe place.

Section 7. Handling and storage

Precautions to be taken in handling:

Safe handling: Use protective wears and local ventilation equipment, if inhalation or skin contact is foreseen.

Precautions to be taken in storage:

General precautions: Store in a cool, dry place away from incompatible materials.

Section 8. Exposure controls / personal protection

Exposure guideline: ACGIH(2013) TLV-TWA : No data available
OSHA(2006) PEL-TWA : No data available

Facility measures: Local ventilation of closed work room or total proper ventilation to prevent

inhalation.

Protective ware: Wear appropriate NIOSH/MSHA-approved respirator, safety goggles, face shields, protective gloves.

Section 9. Physical and chemical properties

Color and Form: Silver white solid
Chemical formula: V
Atomic weight: 50.94
Melting point: 1887 °C
Boiling point: 3377 °C
Specific gravity: 6.0 g/cm³
Solubility in water: Insoluble
Flammable: Non-flammable substance
Oxidation: None

Section 10. Stability and reactivity

Stability: Stable when stored in a sealed container.
Reactivity
Incompatibility: Strong acids, strong oxidizing agent.
Condition to avoid: No data available.

Section 11. Toxicological information

Acute toxicity: GHS : No data available.
Skin corrosive / irritation: GHS : No data available.
Serious eyes damage / eye irritation: GHS : No data available.
Respiratory sensitization: GHS : No data available.
Skin sensitization: GHS : No data available.
Germ cell mutagenicity: GHS : No data available.
Carcinogenicity: GHS : No data available.
Reproductive toxicity: GHS : No data available.
Specific target organ toxicity
 — single exposure: GHS :No data available.
 — repeated exposure: GHS :No data available.
Aspiration hazard: GHS :No data available.

Section 12. Ecological information

Ecotoxicity:
Hazards to the aquatic environment
 — acute toxicity: GHS : No data available
 — chronic toxicity: GHS : No data available

Hazardous to the ozone layer:	GHS : No data available No Freon or Halon
Fish toxicity:	No data available
Degradability:	No data available
Bioaccumulative potential:	V biological half-life 42day, Rate of absorption oral=0.02, Respiratory tract=0.26
Mobility in soil:	No data available

Section 13. Disposal considerations

Disposal method: User of the product should contract with the local government or licensed 'Industrial Waste Haulers' for disposal of waste.

Section 14. Transport information

UN classification: Not hazardous
UN number: None
HS code: 8112.99
Marine pollution: None
Precautions Container should be transported in a secure position, in a well-ventilated vehicle.

Section 15. Regulatory information

TSCA inventory : listed
Please refer to any other local / national measures that may be relevant.

Section 16. Other information

The information described above is believed to be correct. However, Kojundo Chemical Lab. makes no representation, warranty nor guarantee of any kind with respect to the information on this data sheet or any use of the product based upon this information.