



# SAFETY DATA SHEET

**MATERION**

## 1. Product and company identification

**Product name** Vanadium Oxide (VO2)  
**Manufacturer/Supplier** Materion Advanced Chemicals Inc.  
**Address** 407 N. 13th Street  
1316 W. St. Paul Avenue  
Milwaukee, WI 53233  
United States  
**Telephone** 414.212.0257  
**e-mail** advancedmaterials@materion.com  
**Contact person** Noreen Atkinson  
**Emergency telephone number**

### Recommended use and Limitations on use

**Recommended use** Not available.  
**SDS number** V-MSDS0030

## 2. Hazards identification

**GHS classification**  
**Physical hazards** Not classified.  
**Health hazards** Not classified.  
**Environmental hazards** Not classified.

### Label elements

**Symbols** None.  
**Signal word** None.  
**Hazard statement** None.

## 3. Composition/information on ingredients

**Substance or mixture** Substance

Chemical property	CAS Number	Concentration (%)
vanadium oxide	12036-21-4	100
Vanadium Oxide		

## 4. First aid measures

**Inhalation** Not available.  
**Skin contact** Not available.  
**Eye contact** Not available.  
**Ingestion** Not available.  
**Potential delayed effects** Not available.  
**Personal protection for first-aid responders** Not available.  
**Notes to physician** Not available.

## 5. Fire-fighting measures

**Extinguishing media** Not available.  
**Extinguishing media to avoid** None.  
**HAZCHEM Code Number** None.  
**Specific hazards during fire fighting** None.  
**Special fire fighting procedures** Not available.  
**Protection of fire-fighters** Not available.

**Hazards from combustion products** None.

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures** Not available.

**Environmental precautions** Not available.

**Spill cleanup methods** Not available.

## 7. Handling and storage

### Handling

**Precautions** Not available.

**Safe handling advice** Not available.

**Prevention of fire and explosion** Not available.

### Storage

**Suitable storage conditions** Not available.

**Incompatible materials** Not available.

## 8. Exposure controls/personal protection

### Exposure limits

No exposure limits noted for ingredient(s).

**Biological limit values** No biological exposure limits noted for the ingredient(s).

### Engineering controls

### Personal protective equipment

**Respiratory protection** Not available.

**Skin protection** Not available.

**Eye/face protection** Not available.

**Radioactive or thermal hazards** Not available.

**Hygiene measures** Not available.

## 9. Physical and chemical properties

### Appearance

**Physical state** Solid.

**Form** Not available.

**Colour** Not available.

**Odour** Not applicable.

**Odour threshold** Not available.

**pH** Not available.

**Melting point/freezing point** Not available.

**Boiling point, initial boiling point, and boiling range** Not available.

**Flash point** Not available.

**Auto-ignition temperature** Not available.

**Flammability (solid, gas)** Not applicable.

**Flammability limit - lower (%)** Not available.

**Flammability limit - upper (%)** Not available.

**Explosive limit - lower (%)** Not available.

**Explosive limit - upper (%)** Not available.

**Vapour pressure** 399.97 kPa at 25 °C

**Vapour density** Not available.

**Evaporation rate** Not available.

<b>Relative density</b>	Not available.
<b>Density</b>	Not available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Other data</b>	
<b>Molecular formula</b>	O2V

## 10. Stability and reactivity

<b>Stability</b>	None.
<b>Conditions to avoid</b>	None.
<b>Incompatible materials</b>	None.
<b>Hazardous decomposition products</b>	None.
<b>Possibility of hazardous reactions</b>	None.

## 11. Toxicological information

<b>Acute toxicity</b>	Not available.
<b>Information on likely routes of exposure</b>	
<b>Ingestion</b>	Not available.
<b>Inhalation</b>	Not available.
<b>Skin contact</b>	Not available.
<b>Eye contact</b>	Not available.
<b>Routes of exposure</b>	Not available.
<b>Symptoms</b>	Not available.
<b>Skin corrosion/irritation</b>	Not available.
<b>Serious eye damage/eye irritation</b>	Not available.
<b>Skin sensitiser</b>	Not available.
<b>Chronic effects</b>	Not available.
<b>Relevant negative data</b>	Not available.

## 12. Ecological information

<b>Ecotoxicity</b>	Not available.
<b>Persistence and degradability</b>	Not available.
<b>Bioaccumulation</b>	Not available.
<b>Partition coefficient n-octanol/water (log Kow)</b>	Not available.
<b>Bioconcentration factor (BCF)</b>	Not available.
<b>Mobility</b>	Not available.
<b>Other hazardous effects</b>	Not available.

## 13. Disposal considerations

<b>Disposal methods/information</b>	Not available.
<b>Special precautions</b>	Not available.

## 14. Transport information

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not available.

## 15. Regulatory information

## 16. Other information

**References** Not available.

**Issued by**  
Not available.

**Prepared by**  
Not available.

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