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# SAFETY DATA SHEETS

According to the UN GHS revision 10

Version: 1.0 Creation Date: July 15, 2024 Revision Date: July 15, 2024

# SECTION 1: Identification

 $<!--\{productinfo\}-->$ 

1.3 Recommended use of the chemical and restrictions on use

Identified uses Uses advised against Industrial and scientific research use.

no data available

1.4 Supplier's details

<!--{companyinfo}-->

1.5 Emergency phone number

<!--{Emergency phone number}-->

# SECTION 2: Hazard identification

# Classification of the substance or mixture

Skin irritation, Category 2 Eye irritation, Category 2

#### 2.2 GHS label elements, including precautionary statements

Pictogram(s)

Signal word

Hazard statement(s) H315 Causes skin irritation

H319 Causes serious eye irritation

Precautionary statement(s)

P264 Wash ... thoroughly after handling. Prevention

Warning

P280 Wear protective gloves/protective clothing/eye protection/face

protection/hearing protection/...

P302+P352 IF ON SKIN: Wash with plenty of water/... Response P321 Specific treatment (see ... on this label).
P332+P317 If skin irritation occurs: Get medical help.

P362+P364 Take off contaminated clothing and wash it before reuse.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

Storage none Disposal none

# Other hazards which do not result in classification

no data available

# SECTION 3: Composition/information on ingredients

#### 3. 1 Substances

Chemical name	Common names and synonyms	CAS number	EC number	Concentration
Vanadium dioxide	Vanadium dioxide	12036-21-4	234-841-1	≈ 99%

# SECTION 4: First-aid measures

#### Description of necessary first-aid measures 4.1

#### If inhaled

Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.

### Following skin contact

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

#### Following eye contact

Rinse with pure water for at least 15 minutes. Consult a doctor.

#### Following ingestion

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.

# 4.2 Most important symptoms/effects, acute and delayed

no data available

### 4.3 Indication of immediate medical attention and special treatment needed, if necessary

no data available

# SECTION 5: Fire-fighting measures

# 5.1 Suitable extinguishing media

Use dry chemical, carbon dioxide or alcohol-resistant foam.

### 5.2 Specific hazards arising from the chemical

no data available

# 5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

#### SECTION 6: Accidental release measures

# 6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing mist, gas or vapours. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

### 6.2 Environmental precautions

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

# 6.3 Methods and materials for containment and cleaning up

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

# SECTION 7: Handling and storage

# 7.1 Precautions for safe handling

Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

# 7.2 Conditions for safe storage, including any incompatibilities

Store the container tightly closed in a dry, cool and well-ventilated place. Store apart from foodstuff containers or incompatible materials.

# SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

# Occupational Exposure limit values

no data available

#### Biological limit values

no data available

# 8.2 Appropriate engineering controls

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area.

# 8.3 Individual protection measures, such as personal protective equipment (PPE)

#### Eye/face protection

Wear tightly fitting safety goggles with side-shields conforming to EN 166(EU) or NIOSH (US).

#### Skin protection

Wear fire/flame resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

# Respiratory protection

If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator.

#### Thermal hazards

no data available

# SECTION 9: Physical and chemical properties and safety characteristics

Physical state no data available Colour no data available 0dour no data available Melting point/freezing point 1967° C Boiling point or initial no data available boiling point and boiling range Flammability no data available Lower and upper explosion no data available limit/flammability limit Flash point no data available Auto-ignition temperature no data available Decomposition temperature no data available no data available Kinematic viscosity no data available Solubility no data available Partition coefficient nno data available octanol/water no data available Vapour pressure Density and/or relative 4.339g/mLat 25° C(lit.) density Relative vapour density no data available Particle characteristics no data available

# SECTION 10: Stability and reactivity

### 10.1 Reactivity

no data available

# 10.2 Chemical stability

no data available

# 10.3 Possibility of hazardous reactions

no data available

# 10.4 Conditions to avoid

no data available

#### 10.5 Incompatible materials

no data available

# 10.6 Hazardous decomposition products

no data available

# SECTION 11: Toxicological information

# Acute toxicity

- Oral: no data available
- Inhalation: no data available
- Dermal: no data available

#### Skin corrosion/irritation

no data available

#### Serious eye damage/irritation

no data available

# Respiratory or skin sensitization

no data available

# Germ cell mutagenicity

no data available

# Carcinogenicity

no data available

# Reproductive toxicity

no data available

# STOT-single exposure

no data available

# STOT-repeated exposure

no data available

### Aspiration hazard

no data available

# 12.1 Toxicity

- Toxicity to fish: no data available
- Toxicity to daphnia and other aquatic invertebrates: no data available
- Toxicity to algae: no data available
- Toxicity to microorganisms: 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 Other adverse effects

no data available

# SECTION 13: Disposal considerations

# 13.1 Disposal methods

#### Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge

#### Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

# SECTION 14: Transport information

#### 14.1 UN Number

ADR/RID: Not dangerous goods. (For reference only, please check.)

IMDG: Not dangerous goods. (For reference only, please check.)

IATA: Not dangerous goods. (For reference only, please check.)

14.2 UN Proper Shipping Name

ADR/RID: Not dangerous goods. (For reference only, please check.)

IMDG: Not dangerous goods. (For reference only, please check.)

IATA: Not dangerous goods. (For reference only, please check.)

14.3 Transport hazard class(es)

ADR/RID: Not dangerous goods. (For reference only, please check.)

IMDG: Not dangerous goods. (For reference only, please check.)

IATA: Not dangerous goods. (For reference only, please check.)

14.4 Packing group, if applicable

ADR/RID: Not dangerous goods. (For reference only, please check.)

IMDG: Not dangerous goods. (For reference only, please check.)

IATA: Not dangerous goods. (For reference only, please check.)

14.5 Environmental hazards

ADR/RID: No

IMDG: No TATA: No.

# 14.6 Special precautions for user

no data available

# 14.7 Transport in bulk according to IMO instruments

no data available

# SECTION 15: Regulatory information

# 15.1 Safety, health and environmental regulations specific for the product in question

Chemical name	Common names and synonyms	CAS number	EC number
Vanadium dioxide	Vanadium dioxide	12036-21-4	234-841-1
European Inventory of Existing Commercial Chemical Substances (EINECS)			
EC Inventory			
United States Toxic Substances Control Act (TSCA) Inventory			Listed.
China Catalog of Hazardous chemicals 2015			
New Zealand Inventory of Chemicals (NZIoC)			
Philippines Inventory of Chemicals and Chemical Substances (PICCS)			Listed.
Vietnam National Chemical Inventory			Listed.
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)			Not Listed.
Korea Existing Chemicals List (KECL)			

# SECTION 16: Other information

Information on revision

Creation Date

#### Abbreviations and acronyms

- CAS: Chemical Abstracts Service
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- RID: Regulation concerning the International Carriage of Dangerous Goods by Rail
- IMDG: International Maritime Dangerous Goods IATA: International Air Transportation Association
- TWA: Time Weighted Average
- STEL: Short term exposure limit LC50: Lethal Concentration 50%
- LD50: Lethal Dose 50%
- EC50: Effective Concentration 50%

- IPCS The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home
   HSDB Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm
   IARC International Agency for Research on Cancer, website: http://www.iarc.fr/
   eChemPortal The Global Portal to Information on Chemical Substances by OECD, website: etnemfortal - The Global Fortal to Information on Chemical Substances by OCCD, we http://www.echemportal.org/echemportal/index?pageID=0&request\_locale=en
   CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple
   ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp
   ERG - Emergency Response Guidebook by U.S. Department of Transportation, website:

- http://www.phmsa.dot.gov/hazmat/library/erg
- Germany GESTIS-database on hazard substance, website: http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-
- ECHA European Chemicals Agency, website: https://echa.europa.eu/

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