

Section 1. Product and Company Identification

Product Name	Vanadyl Sulfate
CAS Number	27774-13-6

Parchem - fine & spe	ecialty chemicals						
415 Huguenot Stree	415 Huguenot Street						
New Rochelle, NY 1	0801						
2 (914) 654-6800 🕝 (914) 654-6899							
parchem.com	🞽 info@parchem.com						

EMERGENCY RESPONSE NUMBER CHEMTEL Toll Free US & Canada: 1 (800) 255-3924 All other Origins: 1 (813) 248-0585 Collect Calls Accepted

Section 2. Hazards Identification

# Classification of the substance or mixture

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) Acute oral toxicity: Category 4 Skin Corrosion/irritation: Category 2 Serious Eye Damage/Eye Irritation: Category 2 Specific target organ toxicity (single exposure): Category 3 Target Organs - Respiratory system

#### GHS Label Elements Pictograms:



Signal word: WARNING

# Hazard and precautionary statements Hazard Statements

Harmful if swallowed Causes skin irritation Causes serious eye irritation May cause respiratory irritation

# Precautionary Statements Prevention

Wash face, hands, and any exposed skin thoroughly after handling Do not eat, drink, or smoke when using this product Wear protective gloves/protective clothing/eye protection/face protection



Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area

# Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell

# Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse

# **Eves**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

#### Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth

#### Storage

Store in a well-ventilated place. Keep container tightly closed Store locked up

#### Disposal

Dispose of contents/container to an approved waste disposal plant

# Hazards not otherwise classified (HNOC): None identified

Section 3. Composition / Information on Ingredients						
Common Name Synonym(s)	Vanadyl Sulfate Vanadium Oxide Sulfate; Vanadium, Oxo[sulfato(2-)-O]-; Oxosulfato- Vanadium					
Formula CAS Number	VOSO4 27774-13-6					

COMPONENT	CAS NUMBER	CONCENTRATION
Vanadyl Sulfate	27774-13-6	100.0% wt.

#### Section 4. First Aid Measures

**Eye Contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Skin Contact: Wash off immediately with plenty of water for at least 15 minutes.

Inhalation: Move to fresh air.

**Ingestion:** Do not induce vomiting.

Most important symptoms/effects: No information available. Notes to Physician: Treat symptomatically



Section 5. Firefighting Measures

Unsuitable Extinguishing Media: No information available Flash Point: No information available Autoignition Temperature: No information available

Explosion Limits Upper: No data available Lower: No data available

Sensitivity to Mechanical Impact: No information available Sensitivity to Static Discharge: No information available Specific Hazards Arising from the Chemical: Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products: None known

**Protective Equipment and Precautions for Firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### NFPA

Health: 2 Flammability: 0 Instability: 0 Physical hazards: N/A

Section 6. Accidental Release Measures

**Personal Precautions:** Ensure adequate ventilation. Use personal protective equipment. **Environmental Precautions:** See Section 12 for additional ecological information. **Methods for Containment and Clean Up:** No information available

Section 7. Handling and Storage

Handling: Ensure adequate ventilation.

Storage: Keep containers tightly closed in a dry, cool and well-ventilated place.

Section 8. Exposure Controls / Personal Protection

#### **Exposure Guidelines**

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Vanadyl Sulfate	-	-	Ceiling: 0.05 mg/m <sup>3</sup>

Engineering Measures: Ensure adequate ventilation, especially in confined areas



# **Personal Protective Equipment**

**Eye/face Protection:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin and body protection:** Wear appropriate protective gloves and clothing to prevent skin exposure.

**Respiratory Protection:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. **Hygiene Measures:** Handle in accordance with good industrial hygiene and safety practice

#### Section 9. Physical and Chemical Properties

Appearance: Blue solid Odor: Odorless Odor Threshold: No information available pH: No information available Melting Point/Range: No data available Boiling Point/Range: No information available Flash Point: No information available Evaporation Rate: No information available Flammability (solid, gas): No information available

#### Flammability or explosive limits

Upper: No data available Lower: No data available Vapor Pressure: No information available Vapor Density: No information available Relative Density: 3.0 Solubility: Soluble in water Partition coefficient; n-octanol/water: No data available Autoignition Temperature: No information available Decomposition Temperature: No information available Viscosity: No information available Molecular Weight: 162.9985

Section 10. Stability and Reactivity

Reactive Hazard: None known, based on information available Stability: Stable under normal conditions. Conditions to Avoid: Incompatible products. Incompatible Materials: Strong oxidizing agents Hazardous Decomposition Products: None under normal use conditions



# Hazardous Polymerization: Hazardous polymerization does not occur. Hazardous Reactions: None under normal processing

Section 11. Toxicological Information

# Acute Toxicity

#### **Component Information**

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation					
Vanadyl sulfate	Not listed	4450 mg/kg ( Rabbit )	Not listed					

#### Toxicologically Synergistic Products: No information available

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation: No information available

Sensitization: No information available

**Carcinogenicity:** The table below indicates whether each agency has listed any ingredient as a carcinogen

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Vanadyl sulfate	27774-13-6	Not listed				

Mutagenic Effects: No information available Reproductive Effects: No information available. Developmental Effects: No information available Teratogenicity: No information available. STOT - single exposure: Respiratory system STOT - repeated exposure: None known Aspiration hazard: No information available Symptoms/effects, both acute and delayed: No information available Endocrine Disruptor Information: No information available

**Other Adverse Effects:** The toxicological properties have not been fully investigated.

Section 12. Ecological Information

Ecotoxicity: Do not empty into drains.

**Persistence and Degradability:** No information available **Bioaccumulation/Accumulation:** No information available. **Mobility:** No information available



Section 13. Disposal Considerations

**Waste Treatment Methods:** Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

# DOT

UN-No: UN2931 Proper Shipping Name: Vanadyl Sulfate Hazard Class: 6.1 Packing Group: II

# TDG

UN-No: UN2931 Proper Shipping Name: Vanadyl Sulfate Hazard Class: 6.1 Packing Group: II

# IATA

UN-No: UN2931 Proper Shipping Name: Vanadyl Sulfate Hazard Class: 6.1 Packing Group: II

# IMDG/IMO

UN-No: UN2931 Proper Shipping Name: Vanadyl Sulfate Hazard Class: 6.1 Packing Group: II

Section 15. Regulatory Information

# **International Inventories**

Vanadyl sulfate

TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Х	Х	-	248-652-7	-		Х	Х	Х	Х	Х

# **U.S. Federal Regulations**

TSCA 12(b): Not applicable

#### SARA 313

Component	CAS No.	Weight %	SARA 313 - Threshold Values %
Vanadyl sulfate	27774-13-6	100.0	1.0



# SARA 311/312 Hazardous Categorization Acute Health Hazard: Yes Chronic Health Hazard: No Fire Hazard: No Sudden Release of Pressure Hazard: No Reactive Hazard: No

# **Clean Water Act**

Component	CWA -	CWA -	CWA - Toxic	CWA - Priority
	Hazardous	Reportable	Pollutants	Pollutants
	Substances	Quantities		
Vanadyl sulfate	Х	1000 lb	-	-

#### Clean Air Act: Not applicable OSHA (Occupational Safety and Health Administration): Not applicable CERCLA: Not applicable

Component	Hazardous Substances RQs	CERCLA EHS RQs
Vanadyl sulfate	1000 lb	-

California Proposition 65: This product does not contain any Proposition 65 chemicals

#### State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Vanadyl	Х	Х	X		-
sulfate					

# U.S. Department of Transportation Reportable Quantity (RQ): N DOT Marine Pollutant: N DOT Severe Marine Pollutant: N

U.S. Department of Homeland Security: This product does not contain any DHS chemicals.

#### **Other International Regulations**

Mexico - Grade: No information available

**Canada:** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

#### WHMIS Hazard Class

D1B Toxic materials D2B Toxic materials



Safety Data Sheet (Vanadyl Sulfate) DATE PREPARED: 1/4/2016

Section 16. Other Information

**Disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

REVISION DATE: 1/4/2016

# poinchenn fine & speciality chemicals