V-COR 221

Corrosion Inhibitor

Classified as: Hazardous according to the EPA Hazardous Substances (Minimum Degrees of Hazard) Notice 2017.

SECTION 1: SUBSTANCE AND SUPPLIER DETAILS

Product Name:	V-COR 221
Supplier:	Visentia Ltd 119 Carbine Road Mt Wellington Auckland 1060 New Zealand
Telephone:	+64 9 216 9824
Recommended Use:	Water Treatment Chemical
In Case of Emergency Contact:	0800 CHEMCALL (243 622)

SECTION 2: HAZARDS IDENTIFICATION

V-COR 221 is not classified as a Dangerous Good for Transport.

V-COR 221 is classified as hazardous according to criteria in the EPA Hazardous Substances (Minimum Degrees of Hazards) Notice 2017.

Classified under the group standard “Water Treatment Chemicals (Subsidiary Hazard) Group Standard 2017”

HSNO Approval Number:	HSR002684
HSNO Classifications:	6.1D - Acutely toxic, oral 6.3A – Irritating to skin 6.4A – Irritating to eyes 6.5B – Contact sensitiser 9.3C - Harmful to terrestrial vertebrates
GHS Classification:	Acute toxicity oral – Category 4 Skin corrosion/irritation – Category 2 Serious eye damage/eye irritation – Category 2 Skin sensitisation – Category 1
Hazard Statements:	H302 – Harmful if swallowed H315 – Causes skin irritation H319 – Causes serious eye irritation

H317 – May cause an allergic skin reaction

H433 – Harmful to terrestrial vertebrates

GHS Pictograms:

Signal Word: WARNING

Prevention Statements:

P102 – Keep out of reach of children.

P261 – Avoid breathing mist/vapour/spray.

P264 – Wash hands, exposed skin, thoroughly after handling.

P270 – Do not eat, drink or smoke when using this product.

P272 – Contaminated work clothing should not be allowed out of the workplace.

P273 – Avoid release to the environment.

P280 – Wear protective gloves, protective clothing, eye protection, face protection.

Response Statements:

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P330 - Rinse mouth.

P302 + P352 – IF ON SKIN: Wash with plenty of soap and water.

P333 + P313 – If skin irritation or rash occurs: Get medical advice/attention.

P362 – Take off contaminated clothing and wash before re-use.

P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 – If eye irritation persists: Get medical advice/attention.

P321 – Specific treatment (see first aid instructions on this label).

Storage: None

Disposal: P501 – In accordance with the EPA Hazardous Substances (Disposal) Notice 2017. Refer to Section 13 of this SDS.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Main Component	CAS Number	Concentration
Sodium bisulphite	7631-90-5	20-40%

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

SECTION 4: FIRST AID MEASURES

Workplace Facilities Required:	Eye wash and safety shower facilities should be provided.
If Inhaled:	Remove to fresh air. Seek medical attention if symptoms persist.
In Contact with Eye:	Hold eyes open, flush with water for at least 15 minutes. Seek medical attention if irritation develops and persists.
In Contact with Skin:	Wash skin with plenty of water, while removing contaminated clothing and shoes. Wash contaminated clothing before re-use. Seek medical attention if skin irritation develops and persists.
If Swallowed:	DO NOT INDUCE VOMITING. Rinse mouth. Give small quantities of water. Never give anything by mouth to an unconscious person. Seek immediate medical attention. If vomiting occurs, keep head below hips to prevent aspiration to lungs.
Advice to Doctor:	Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

Fire/Explosion Hazard:	Product is not flammable or combustible.
Suitable Extinguishing Media:	Use an extinguishing agent suitable for surrounding fire.
Precautions in Connection with Fire:	May give off noxious fumes in a fire containing sulphur oxides and metal oxides.
Advice for firefighters:	Wear full firefighting gear and self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

An emergency response plan is required under Part 5 of the Health and Safety at Work (Hazardous Substances) Regulations 2017 when held in quantities greater than 1,000L.

Precautions:	Clear area of all unprotected personnel. Keep unnecessary and unprotected personnel from entering area. Avoid generating mist/spray. Avoid release to the environment.
Suitable Protective Equipment:	Emergency responders must use personal protective equipment, including gloves, protective overalls and footwear, safety goggles or face shield and respiratory protection if there is a risk of inhaling mist/spray.
Spill or Leak Procedures:	Contain the spill. Absorb with inert material such as sand, earth or vermiculite. Collect spilled material and place in a suitable, closable chemical waste container. Ensure waste container is properly labelled.
Waste Disposal Methods:	Dispose of as per Section 13.
Emergency Preparation:	Ensure there is appropriate and adequate personal protective equipment, trained personnel and clean up materials for management of accidental release.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling:	Avoid contact with skin and eyes. Do not breathe mist/spray. Do not eat drink or smoke when using this product. Remove contaminated clothing and wash hands and face before entering eating areas.
Storage:	Keep in original container or a suitable alternative made of compatible material. Keep container tightly closed when not in use. Store in a cool, dry, well-ventilated area.

	Protect from humidity and water. Store in a contained area where any spill cannot seep into the ground or be dispersed outside the area.
Site Storage Requirements:	Site Signage will be required when quantities exceed 10,000L.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Workplace Exposure Standards NZ:	No Workplace Exposure Standards have been established for this product. For sodium bisulphite: TWA 5 mg/m^3
Engineering Controls:	Eyewash facilities and safety showers should be provided in the work area where there is a risk of exposure to eyes and skin. If use generates mist/spray, use engineering controls such as local exhaust ventilation to ensure workers are not exposed to levels exceeding the exposure standards.
Personal Protective Equipment:	Avoid contact with the skin and eyes. Avoid inhaling mist/spray.
Hand protection:	Wear protective gloves that are resistant to the product. Refer to Australian and New Zealand Standard AS/NZS 2161 for protective gloves.
Skin and body protection:	Use protective clothing. Remove any contaminated clothing to avoid prolonged contact with the skin. Wash work clothes regularly. Refer to Australian and New Zealand Standard AS/NZS 4501 for occupational protective clothing.
Eye protection:	Use safety glasses with side shields or safety goggles to protect eyes. Refer to AS/NZS 1336 for suitable eye and face protection.
Respiratory protection:	Where there is inadequate ventilation, use a respirator. Refer to AS/NZS 1715 and AS/NZS 1716 for suitable respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Other information:	PPE selected must be impervious to the substance. Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating, drinking or smoking. Handle in accordance with safe industrial hygiene practices.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Description:	Liquid	**Colour:**	Light yellow to light pink
Odour:	Pungent odour	**Odour Threshold:**	Not applicable
pH (25°C):	2.9-5.2	**Solubility (water, 25°C):**	Miscible
Melting/Freezing point:	-9°C (freezing)	**Boiling Point:**	>100°C
Flammability:	Non-flammable	**Flash Point:**	Not applicable
UEL/LEL:	Not applicable	**Vapour Pressure (20°C):**	2.3 kPa
Decomposition Temp:	Not available	**Autoignition Temp:**	Not available
Relative Density:	1.3 (25°C)	**Vapour Density:**	Not available
Partition Coefficient:	Not available	**Viscosity:**	Not available
n-octanol/water			

SECTION 10: STABILITY AND REACTIVITY

Stability:	Stable under normal dry storage conditions.

Reactivity:	Reacts with acids to produce toxic fumes including Sulphur Dioxide. Sulphur Dioxide can react with water to form an acidic solution which may corrode metals and some plastics, rubbers and polymer coatings.
Conditions to Avoid:	Formation of mist/spray. Uncontrolled formation of sulphur dioxide.
Incompatibility:	Incompatible with acids, strong oxidisers.
Hazardous Decomposition:	Decomposes to form sulphur oxides and metal oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Exposure

Acute Toxicity:	LD50 oral > 300 - ≤ 2000 mg/kg.
	LD50 dermal > 5000 mg/kg
	LC50 inhalation > 5 mg/L (dust or mist)
Inhalation:	Not an expected route of exposure during normal conditions of use. Not expected to cause adverse toxic effects. However, if use results in formation of sulphur dioxide then inhalation could cause shortness of breath, wheezing and asthma like symptoms.
Ingestion:	Harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting, abdominal pain and diarrhoea.
Skin Contact:	Irritating to skin.
Eye Contact:	Irritating to eyes.
Sensitiser:	Contact sensitiser. Skin contact may produce an allergic skin reaction.

Chronic Exposure

Mutagen, Carcinogen, or Reproductive Toxicant:	No chronic toxicity effects expected.
Specific Target Organ Systemic Toxicity:	No known toxic or harmful effects on human target organs or systems.
	Toxicity data is based on hazardous ingredient information and information in the EPA Chemical Classification and Identification Database.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:	LC/EC_{50} >100 mg/L.
	Product is not ecotoxic in the aquatic environment. Product is harmful to terrestrial vertebrates. Avoid losses of undiluted product to the environment wherever possible.
Persistence/degradability:	Not rapidly biodegradable.
Bio-accumulation:	Not bio-accumulative.
Mobility:	Product is soluble in water.
	Ecotoxicity data is based on hazardous ingredient information.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal:	Recycle and reuse wherever possible. Dispose of waste product via an approved waste disposal contractor.
Disposal of Packaging:	Packaging may contain product residues and should be treated as hazardous. Dispose of packaging via an approved waste disposal contractor.

SECTION 14: TRANSPORT INFORMATION

V-COR 221 is not classified as a Dangerous Good for transport in accordance with NZS5433:2012, IMDG or IATA.

Ensure transportation methods prevent leakage from packages and collapsing loads.

SECTION 15: REGULATORY INFORMATION

Group Standard Allocation:	Water Treatment Chemicals (Subsidiary Hazard) Group Standard 2017
HSNO Approval Code:	HSR002684
HSNO Classifications:	6.1D oral – Acutely toxic
	6.3A – Skin irritant
	6.4A – Eye irritant
	6.5B – Contact sensitiser
	9.3C – Harmful to terrestrial vertebrates
This substance triggers:	Compliance Certificate – N/A
	Certified Handler – N/A
	Emergency Response Plan – 1,000L
	Secondary Containment – 1,000L
	Signage – 10,000L
	This substance is not required to be Tracked. All workplace personnel handling this substance are required to be trained on the safe handling and PPE requirements for the hazards associated with this substance.

SECTION 16: OTHER INFORMATION

The information provided in this Safety Data Sheet relates only to the specific material designated herein. This Safety Data Sheet summarises our best knowledge of the health and safety hazard information of the product and how to safely handle the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including its use in conjunction with other products.

This substance is approved under HSNO for use as a water treatment chemical. All reasonable care has been taken to ensure that the information and advice contained herein are from sources believed to be reliable and to represent the most up-to-date knowledge available at the date given in Section 16. No liability is assumed for any damages related to the use or misuse of this substance.

All chemical materials may present unknown hazards as people have varying degrees of sensitivity to chemicals. Therefore, this product should be used with caution. The information herein is given in good faith, but no warranty, express or implied is made.

SDS Issued: 14/03/2019

Reason for Revision:	Update to New Zealand regulatory requirements.
References:	EPA NZ Chemical Classification and Information Database EPA Guide: Assigning a Hazardous Substance to a Group Standard, 2014

END OF SAFETY DATA SHEET