

Section 1 - Chemical Product and Company Identification

Product Name	R-1501
Synonyms	CFR Nitrite Additive
Product Use	Nitrite Additive for Glycols
Restrictions On Use	Not Applicable
Supplier	CFR Chemicals 38451 Range Road 22 County of Red Deer T4E 2N6
General Assistance	1 (877) 269-3419
Emergency Telephone	613-966-6666 (CANUTEC 24 Hour Phone Number)
Date of Preparation of SDS	April 1, 2017

Section 2 – Hazard Identification

Signal Word
GHS Pictogram(s)

Warning



Hazard Statement:

H301	Toxic if swallowed.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.

Precautionary Statement

P264	Wash skin thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/eye protection/face protection.

Response

P321	Specific treatment (see supplemental first aid instructions on this label).
P330	Rinse mouth.
P301 + P310	IF SWALLOWED: Immediately call a POISON Center or doctor/physician
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.
P391	Collect Spillage.

Storage

P405	Store locked up.
------	------------------

Disposal

P501	Dispose of contents/container to an approved waste disposal unit.
------	---

GHS Classification

Acute Toxicity (oral) (Category 3)
Eye corrosion/irritation (Category 2A)
Acute Aquatic Toxicity (Category 1)



Safety Data Sheet - GHS

CFR R-1501

Date of Revision: April 1, 2025

HMIS Classification

Health Hazard	1
Chronic Health Hazard	*
Flammability	1
Physical Hazards	0

Potential Health Effects

Inhalation	May be harmful if inhaled.
Skin	May be harmful in contact with skin.
Eye	Causes serious eye irritation.
Ingestion	Toxic if swallowed.

Section 3 – Composition Information on Ingredients

HAZARDOUS INGREDIENT, Common Name	Hazardous Ingredient, Synonyms	PERCENT	CAS NUMBER
Sodium Nitrite	Not Applicable	5 – 30%	7632-00-00
Water	H ₂ O, Aqua	70 – 95%	7732-18-5

* = Various ** = Mixture *** = Proprietary

Section 4 - First Aid Measures

Inhalation	Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.
Eye Contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower lids. Check for and remove contact lenses. Continue to rinse for at least 15 minutes. Get medical attention.
Skin Contact	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	Get medical attention immediately. Call a poison control centre or physician. If alert, rinse mouth and drink ½ to 1 glass of water to help dilute the material. Do NOT induce vomiting. If vomiting occurs, the head should be kept low so vomit does not enter the lungs. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as collar, tie, belt or waistband.
Most Important Symptoms/Effects both Acute and Delayed	Causes severe skin and eye burns and eye irritation. Swallowing a small quantity of this material will result in a severe health hazard.
Note to Physician	No information available.

Section 5 – Fire-Fighting Measures

Flash Point (°C)	Not flammable.
------------------	----------------

Flash Point Method	PMCC
Auto Ignition Temperature	No data available
Conditions of Flammability	Not flammable or combustible.
Extinguishing Media	Water spray, fog.
Unsuitable Extinguishing Media	Do not use carbon dioxide.
Unusual Fire/Explosion Hazard	No data available.
Hazardous Combustion Products	Nitrogen oxides.
Fire Fighting Equipment	Wear appropriate protective equipment and self-contained breathing apparatus with a full face-piece operated in positive pressure mode.
Special Precautions for Firefighters	No data available.

Section 6 – Accidental Release Measures

Personal precautions	Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapour can accumulate in low areas.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Section 7 – Handling and Storage

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Conditions for safe storage	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Hygroscopic.
Incompatible Materials	Acids, ammonium salts, amines, activated carbon, cyanides, reducing agents.

Section 8 – Exposure Controls / Personal Protection

Occupational Exposure Limits

Ingredient Name

Sodium Nitrite

Exposure Limits

Canada, Alberta OHSC Code

None established

Personal protective equipment

Eye/face protection

Chemical safety glasses with side shields to prevent eye contact. As a general rule do not wear contact lenses when handling chemicals. If contact is possible, the

Skin protection	following protection should be worn: Splash goggles. Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases, or dusts. If inhalation hazards exist, a full-face respiratory may be required instead.
Respiratory protection	Wear chemical resistant gloves, impermeable protective clothing and safety shoes. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
General hygiene Considerations	Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary.
Specific engineering controls	Handle in accordance with good industrial hygiene and safety. Eye wash fountains and safety showers must be easily accessible.
	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Use explosion-proof ventilation equipment.

Section 9 – Physical and Chemical Properties

Physical State	Liquid	Water Solubility	miscible
Appearance & Odour	Clear, colourless to pale yellow. Odourless.	Boiling Point	100°C
Vapour Pressure	17 mmHg (20.0°C)	Boiling Point Range	100 – 196°C
Vapour Density	>1 (Air = 1)	Melting Point	-10°C
Specific Gravity	1.175	Freezing Point	-10°C
Partition coefficient (n-octonal/water)	Not available.	Lower Explosive Limit (LEL)	Not Available
pH	9 – 9.5 (1% Aqueous)	Upper Explosive Limit (UEL)	Not Available
Flashpoint (Method)	Not flammable	Auto Ignition temperature	Not Available
Odour Threshold	Not available.	Evaporation Rate	Not available.
Flammability (Solid, Gas)	Not available.		
Decomposition Temperature	Not available.	Viscosity	Not available.

Section 10 – Stability and Reactivity

Reactivity	Thermal decomposition generates: Corrosive vapours.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	No data available.
Conditions to avoid	High temperatures, fire conditions.
Materials to avoid	Acids, ammonium salts, amines, activated carbon, cyanides, reducing agents.
Hazardous decomposition products	Oxygen, nitrous oxides.

Section 11- Toxicological Information

Information on Likely Routes of Exposure

Inhalation	May be harmful if inhaled.
Skin	May be harmful in contact with skin.
Eye	Causes serious eye irritation.
Ingestion	Toxic if swallowed.

Acute and Chronic Toxicity

Toxic if swallowed.

Acute toxicity

Product/Ingredient Name	Result	Species	Dose	Exposure
Sodium nitrite	LD50 Oral	Rat	4700mg/kg	-

Skin corrosion/irritation Not classified.

Serious eye damage/ Eye irritation
Causes serious eye irritation.

Respiratory or skin sensitization

Not classified.

Mutagenicity Not classified.

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity Not classified.

Teratogenicity Not classified.

Specific target organ toxicity - single exposure (Globally Harmonized System)

No data available.

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

No data available.

Aspiration hazard No data available
Delayed and Immediate Effects and also Chronic Effects from Short and Long Term Exposure

Short Term Exposure

Potential immediate Health Effects	No data available.
Potential Delayed Health Effects	No data available.

Long Term Exposure

Potential immediate Health Effects	No data available.
Potential Delayed Health Effects	No data available.
Potential Chronic Effects	No data available.

Synergistic effects No data available

Section 12 – Ecological Information

Toxicity

Product / Ingredient Name	Result	Species	Exposure
---------------------------	--------	---------	----------



Safety Data Sheet - GHS

CFR R-1501

Date of Revision: April 1, 2025

Sodium Nitrite	LC50 0.19mg/L Fish – Oncorhynchus mykiss 96 Hr
Persistence and degradability	Not established.
Bioaccumulative potential	log Pow -3.7 Not expected to bioaccumulate
Mobility in soil	No data available.
PBT and vPvB assessment	No data available.

Section 13 – Disposal Considerations

Product

Do not discharge substance/product into sewer system. Dispose of in accordance with national, regional, and local regulations.

Contaminated packaging

Dispose of as unused product in a licensed facility. Recommend crushing, puncturing, or other means to prevent unauthorized use of used containers. Do not cut, weld, or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled materials and runoff and contain with soil, waterways, drains, and sewers.

Section 14 - Transportation Information

CANADA Transportation of Dangerous Goods (TDG)

Shipping Name	UN1500, SODIUM NITRITE SOLUTION, 5.1, III
Class	5.1
UN Number	UN1500
Packaging Group:	III

Section 15 – Regulatory Information

DSL (Canadian Domestic Substances List) and CEPA (Canadian Environmental Protection Act)

All components of this product are in compliance with the chemical notification requirements of the NSN Regulations under CEPA, 1999.

TSCA Inventory

All components are listed or exempted.

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations and the SDS contains all the information required by the Hazardous Products Regulations.

Section 16 – Other Information

REVISION SUMMARY:

Date of Preparation	April 1, 2017
Date of Revision	April 1, 2025

SDS Prepared by: CFR Lab Manager



Safety Data Sheet - GHS

CFR R-1501

Date of Revision: April 1, 2025

CFR Chemicals Inc. provides the information contained herein in good faith, but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. CFR Chemicals Inc. MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, CFR CHEMICALS INC. WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OR RELIANCE UPON THIS INFORMATION.