



Safety Data Sheet - GHS

R-1431

Date of Revision: April 1, 2025

Section 1 - Chemical Product and Company Identification

Product Name	R-1431
Synonyms	Not available
Product Use	Various use, chemical intermediate, heat transfer fluid
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	Not Dangerous Goods – Call General Assistance
Date of Preparation of SDS	June 22, 2018

Section 2 – Hazard Identification

Signal Word	None
GHS Pictogram(s)	Not Classified
Hazard Statement:	No Statements
Precautionary Statement	No Statements
Response	No Statements
Storage	No Statements
Disposal	No Statements
GHS Classification	Not Classified
Potential Health Effects	
Inhalation	Not Classified
Skin	Not Classified
Eye	Not Classified
Ingestion	Not Classified

Section 3 – Composition Information on Ingredients

HAZARDOUS INGREDIENT, Common Name	Hazardous Ingredient, Synonyms	PERCENT	CAS NUMBER
Sodium 4(or 5)-methyl-1H-benzotriazolide	Not Applicable	0 – 10%	64665-57-2
Silicone SAG 2001	Not Applicable	1 – 5%	9004-99-3

* = 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.
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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. Rinse mouth. 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	Not expected to present a significant hazard under conditions of normal use.
Note to Physician	No information available.

Section 5 – Fire-Fighting Measures

Flash Point (°C)	Not applicable
Flash Point Method	PMCC
Auto Ignition Temperature	No data available
Conditions of Flammability	Not flammable or combustible.
Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable Extinguishing Media	Water jet.
Unusual Fire/Explosion Hazard	No data available.
Hazardous Combustion Products	Carbon 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.
Incompatible Materials	Strong Acids, Strong Bases.

Section 8 – Exposure Controls / Personal Protection

Occupational Exposure Limits

Ingredient Name

Sodium 4(or 5)-methyl-1H-benzotriazole

Silicone SAG 2001

Exposure Limits

Canada, Alberta OHSC Code

None established

Canada, Alberta OHSC Code

None established

Personal protective equipment

Eye/face protection

Chemical safety glasses with side shields to prevent eye contact.

Skin 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.

Respiratory protection

Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary.

General hygiene

Considerations

Handle in accordance with good industrial hygiene and safety. Eye wash fountains and safety showers must be easily accessible.

Specific engineering controls

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. Characteristic odour.	Boiling Point	100°C
Vapour Pressure	17 mmHg (20.0°C)	Boiling Point Range	100°C
Vapour Density	>1 (Air = 1)	Melting Point	-10°C
Specific Gravity	0.970 – 1.010	Freezing Point	-10°C
Partition coefficient (n-octanol/water)	Not available.	Lower Explosive Limit (LEL)	Not Available
pH	9	Upper Explosive Limit (UEL)	Not Available



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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	1 cP

Section 10 – Stability and Reactivity

Reactivity	No data available
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	No data available.
Conditions to avoid	Direct sunlight. Extremely high or low temperatures.
Materials to avoid	Strong acids. Strong bases.
Hazardous decomposition products	Carbon oxides.

Section 11- Toxicological Information

Information on Likely Routes of Exposure

Inhalation	Not Classified
Skin	Not Classified
Eye	Not Classified
Ingestion	Not Classified

Acute toxicity

Product/Ingredient Name	Result	Species	Dose	Exposure
Sodium 4(or 5)-methyl-1H-benzotriazole	LD50 Oral	Rat	640 – 1980mg/kg	
	LD50 Dermal	Rabbit	>2000mg/kg	
Silicone SAG 2001	No data available			

Skin corrosion/irritation Not classified

Serious eye damage/ Eye irritation
Not classified

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)
Not classified

Specific target organ toxicity - repeated exposure (Globally Harmonized System)
Not classified

Aspiration hazard Not classified



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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
Sodium 4(or 5)-methyl-1H-benzotriazole	LC 50 25mg/L	Fish – Oncorhynchus mykiss	96 Hr
	EC 50 280mg/L	Daphnia – Daphnia magna	24 Hr
Silicone SAG 2001	No data available		

Persistence and degradability Not established
Bioaccumulative potential Not established
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)
Not Dangerous Goods

Section 15 – Regulatory Information

DSL (Canadian Domestic Substances List)



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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	June 22, 2018
Date of Revision	April 1, 2025

SDS Prepared by: CFR Lab Manager

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