



**Safety Data Sheet**  
**Complies with 29 CFR 1910.1200 & with**  
**Hazardous Products Regulations**  
**(SOR/2015-17)**  
**CRP Pentofrost NF 50/50**

Revision Date: 08/26/2024

**Section 1. Identification**

**Product identifier**

**Product Identity** CRP Pentofrost NF 50/50

**Other means of identification** CRP Pentofrost NF 50/50

**Relevant identified uses of the substance or mixture and uses advised against**  
Coolant/Antifreeze

**Details of the supplier of the safety data sheet**

**Company Name** CRP Industries, Inc.  
35 Commerce Drive  
Cranbury NJ 08512  
United States

**Emergency**

**24 hour Emergency Telephone No.** US – ChemTrec 1-800-424-9300

**Customer Service:**

**Section 2. Hazard(s) identification**

**Classification of the substance or mixture under US OSHA's Hazard Communication Standard (1910.1200) revised 2024 and Canadian Hazardous Products Regulations (SOR/2015-17) (GHS revision 7)**

Acute toxicity(oral), category 4;H302	Harmful if swallowed.
Reproductive toxicity, category 2;H361D	Suspected of damaging the unborn child.
Specific target organ toxicity, repeated exposure category 2;H373	May cause damage to organs through prolonged or repeated exposure. Specific Target Organs: (kidneys)

**Label elements**



**Warning**

H302 Harmful if swallowed.

H361d Suspected of damaging the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

**[Prevention]**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.



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- P260 Do not breathe dust, fume, mist, vapors or spray.
- P264 Wash thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P280 Wear protective gloves, eye protection, and face protection.

**[Response]**

- P301+312 IF SWALLOWED: Call a POISON CENTER, doctor or physician if you feel unwell.
- P308+313 IF exposed or concerned: Get medical advice or attention.
- P312 Call a POISON CENTER, doctor or physician if you feel unwell.
- P314 Get Medical advice or attention if you feel unwell.
- P330 Rinse mouth.

**[Storage]**

- P405 Store locked up.

**[Disposal]**

- P501 Dispose of contents or container in accordance with local and national regulations.

**Other hazards**

This product contains no PBT/vPvB chemicals.  
 This product contains no endocrine disrupting chemicals.

**Section 3. Composition/information on ingredients**

This product contains the following substances that present a hazard within the meaning of US OSHA's Hazard Communication Standard (1910.1200) revised 2024 and Canadian Hazardous Products Regulations (SOR/2015-17) (GHS revision 7)

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Ethane-1,2-diol CAS Number: 107-21-1 Synonyms: Ethanediol, Ethylene glycol	45 - 70	Acute toxicity(oral), category 4;H302 Specific target organ toxicity, repeated exposure category 2;H373	-----

The actual concentration or concentration range is withheld as a trade secret.  
 \*PBT/vPvB - PBT-substance or vPvB-substance.  
 The full texts of the phrases are shown in Section 16.

**Section 4. First aid measures**

**Description of first aid measures**

- General** In all cases of doubt, or when symptoms persist, seek medical attention.  
Never give anything by mouth to an unconscious person.
- Inhalation** Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious, place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
- Eyes** Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.



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<b>Skin</b>	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
<b>Ingestion</b>	If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.
<b>Most important symptoms and effects, both acute and delayed</b>	
<b>Overview</b>	No specific symptom data available. Treat symptomatically. See section 2 for further details.
<b>Ingestion</b>	Harmful if swallowed.

### Section 5. Fire-fighting measures

#### Extinguishing media

Individuals should perform only those firefighting procedures for which they have been trained. Use water spray, dry chemical, foam or carbon dioxide. Use water to keep fire-exposed containers cool. If a spill or leak has not ignited, use water spray to disperse the vapors. Water spray may be used to flush spills away from fire and diluted spills to noncombustible proportions. See warnings on water spray on hot glycol below.

#### Special hazards arising from the substance or mixture

Hazardous decomposition: If pyrolyzed, thermal decomposition products of residue may include carbon (C), carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), water (H<sub>2</sub>O), ammonia (NH<sub>3</sub>), organic vapors and nitrogen-containing organic compounds.

Do not breathe dust, fume, mist, vapors or spray.

#### Advice for fire-fighters

As with all fires, wear positive pressure, self-contained breathing apparatus, (SCBA) with a full face piece and protective clothing. Persons without respiratory protection should leave area. Wear SCBA during clean-up immediately after fire. No smoking.

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### Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

#### Environmental precautions

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

#### Methods and material for containment and cleaning up

Ventilate the area and avoid breathing vapors. Take the personal protective measures listed in section 8. Contain and absorb spillage with non-combustible materials e.g. sand, earth, and vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations.



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**Section 7. Handling and storage**

**Precautions for safe handling**

Handle containers carefully to prevent damage and spillage.

See section 2 for further details. - [Prevention]

**Conditions for safe storage, including any incompatibilities**

To prevent possible storage container rupture, do not permit to freeze.

Incompatible materials: Oxidizing agents, strong acids and bases

See section 2 for further details. - [Storage]

**Specific end use(s)**

No data available.

**Section 8. Exposure controls / personal protection**

**Control parameters**

**Exposure**

CAS No.	Ingredient	Source	Value
107-21-1	Ethane-1,2-diol	OSHA	No Established Limit
		ACGIH	25 ppm (V) vapor 50 ppm (V) vapor, 10 mg/m <sup>3</sup> (I, H)
		NIOSH	no established RELs

**Exposure controls**

**Respiratory**

If workers are exposed to concentrations above the exposure limit, they must use the appropriate, certified respirators.

**Eyes**

Protective safety glasses recommended

**Skin**

Protective gloves recommended.

**Engineering Controls**

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

**Other Work Practices**

Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details.



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**Section 9. Physical and chemical properties**

**Information on basic physical and chemical properties**

<b>Physical State</b>	Liquid
<b>Color</b>	Clear, slightly viscous blue
<b>Odor</b>	No characteristic odor
<b>Melting point / freezing point</b>	Freezing point: Lower than -34°F (-36°C)
<b>Initial boiling point and boiling range</b>	Higher than 226°F (108°C)
<b>Flammability (solid, gas)</b>	Not Applicable
<b>Upper/lower flammability or explosive limits</b>	<b>Lower Explosive Limit:</b> Not Available <b>Upper Explosive Limit:</b> Not Available
<b>Flash Point</b>	None
<b>Auto-ignition temperature</b>	Not Available
<b>Decomposition temperature</b>	Not Available
<b>pH</b>	7.5~9.0
<b>Viscosity (cSt)</b>	Not Available
<b>Solubility in Water</b>	Infinite miscibility
<b>Partition coefficient n-octanol/water (Log Kow)</b>	Not Available
<b>Vapor pressure (Pa)</b>	Not Available
<b>Relative Density</b>	1.06~1.10 g/cm <sup>3</sup>
<b>Vapor Density</b>	Not Available
<b>Evaporation rate (Ether = 1)</b>	Not Available
<b>VOC Content</b>	Not Available
<b>Other information</b>	No other relevant information.

**Section 10. Stability and reactivity**

**Reactivity**

Hazardous Polymerization will not occur.

**Chemical stability**

Stable under normal circumstances.

**Possibility of hazardous reactions**

No data available.

**Conditions to avoid**

Avoid oxidizing agents, strong acids and bases. Do not expose to open flame.



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**Incompatible materials**

Oxidizing agents, strong acids and bases

**Hazardous decomposition products**

If pyrolyzed, thermal decomposition products of residue may include carbon (C), carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), water (H<sub>2</sub>O), ammonia (NH<sub>3</sub>), organic vapors and nitrogen-containing organic compounds.

**Section 11. Toxicological information**

**Acute toxicity**

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation vapour LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Ethane-1,2-diol - (107-21-1)	500.10, Rat - Category: 4	3,501.00, Mouse - Category: 5	No data available.	No data available.	No data available.

**Carcinogen Data**

CAS No.	Ingredient	Source	Value
107-21-1	Ethane-1,2-diol	IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
		ACGIH	A4

Classification	Category	Hazard Description
Acute toxicity (oral)	4	Harmful if swallowed.
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	---	Not Applicable
Serious eye damage/irritation	---	Not Applicable
Respiratory sensitization	---	Not Applicable
Skin sensitization	---	Not Applicable
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	2	Suspected of damaging the unborn child.
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	2	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	---	Not Applicable

Possible routes of entry: No data available.



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**Symptoms and effects, both acute and delayed:**

No specific symptom data available.  
Treat symptomatically.

**Ingestion** Harmful if swallowed.

**Section 12. Ecological information**

**Toxicity**

No additional information provided for this product. See Section 3 for chemical specific data.

**Aquatic Ecotoxicity**

Ingredient	96 hr LC50 fish, mg/L	48 hr EC50 crustacea, mg/L	ErC50 algae, mg/L
Ethane-1,2-diol - (107-21-1)	72,860.00, Pimephales promelas	101.00, Daphnia magna	3,536.00, Green algae

**Persistence and degradability**

There is no data available on the preparation itself.

**Bioaccumulative potential**

Not Available

**Mobility in soil**

No data available.

**Results of PBT and vPvB assessment**

This product contains no PBT/vPvB chemicals.

**Other adverse effects**

No data available.

**Section 13. Disposal considerations**

**Waste treatment methods**

Waste should not be released to sewers. Observe all federal, state, and local regulations when disposing of this substance.



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**Section 14. Transport information**

Classification Method: Classified as per Part 2, Sections 2.1-2.8 of the Transportation of Dangerous Goods Regulations.

	<b>Domestic Surface Transportation</b>	<b>IMO / IMDG (Ocean Transportation)</b>	<b>ICAO/IATA</b>
<b>UN number</b>	UN3082	UN3082	UN3082
<b>UN proper shipping name</b>	UN3082, Environmentally hazardous substances, liquid, n.o.s., (Ethylene Glycol), 9, III	Environmentally hazardous substances, liquid, n.o.s., (Ethylene Glycol)	Environmentally hazardous substances, liquid, n.o.s., (Ethylene Glycol)
<b>Transport hazard class(es)</b>	<b>TDG Hazard Class:</b> 9 <b>Sub Class:</b> Not Applicable	<b>IMDG:</b> 9 <b>Sub Class:</b> Not Applicable	<b>Air Class:</b> 9 <b>Sub Class:</b> Not Applicable
<b>Packing group</b>	III	III	III
<b>Environmental hazards</b>	Marine Pollutant: No;		
<b>Special precautions for user</b>	Not Applicable		

**Section 15. Regulatory information**

**Regulatory Overview** The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

This product has been classified in accordance with US OSHA's Hazard Communication Standard (1910.1200) revised 2024 and Canadian Hazardous Products Regulations (SOR/2015-17 amended 2022-12-15) (GHS revision 7) and the SDS contains all of the information required by those regulations.

**Toxic Substance Control Act (TSCA)**

Ethane-1,2-diol  
methyl-1H-benzotriazole (TP)  
Water

**EPCRA 302 Extremely Hazardous:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**EPCRA 313 Toxic Chemicals:**

Ethane-1,2-diol

**Canadian Domestic Substance List (DSL):**

Ethane-1,2-diol  
Water





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**Canadian Non-Domestic Substance List (NDSL):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**New Jersey RTK Substances (>1%):**

Ethane-1,2-diol

**Pennsylvania RTK Substances (>1%):**

Ethane-1,2-diol

**Proposition 65 - Carcinogens (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Developmental Toxins (>0.0%):**

Ethane-1,2-diol

**Proposition 65 - Female Repro Toxins (>0.0%):**

Ethane-1,2-diol

**Proposition 65 - Male Repro Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 Label Warning:**



WARNING: This product can expose you to chemicals including [Ethane-1,2-diol], which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**Section 16. Other information**

**Revision Date**                      08/26/2024

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H302 Harmful if swallowed.

H373 May cause damage to organs through prolonged or repeated exposure.

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