



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

Revision Date: 09/08/2022

**1. Identification**

**Product identifier**

**Product Identity** CRP PENTOFROST SF

**Other means of identification** CRP PENTOFROST SF

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

Antifreeze/coolant

**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.** Canada – ChemTrec 1-800-424-9300

**Customer Service:** CRP Industries, Inc.

**2. Hazard(s) identification**

**Classification of the substance or mixture**

Acute toxicity(oral), category 4;H302 Harmful if swallowed.

Reproductive toxicity, category 2;H361D Suspected of damaging the unborn child.

**Label elements**



**Warning**

H302 Harmful if swallowed.

H361d Suspected of damaging the unborn child.

**[Prevention]**

P201 Obtain special instructions before use.

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

P264 Wash thoroughly after handling.

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



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P280 Wear protective gloves, eye protection, 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.

P330 IF SWALLOWED: Rinse mouth.

**[Storage]**

P405 Store locked up.

**[Disposal]**

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

**3. Composition/information on ingredients**

This product contains the following substances that present a hazard within the meaning of the Hazardous Products Regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Ethane-1,2-diol CAS Number: 0000107-21-1 Synonyms: Ethanediol, Ethylene glycol	65 - 85	Acute toxicity(oral), category 4;H302	No data available
2-Ethylhexanoic acid CAS Number: 0000149-57-5 Synonyms: 2-Ethylhexanoic acid	1 - 5	Reproductive toxicity, category 2;H361d*	No data available

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.

**Skin**

Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.

**Ingestion**

If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.



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**Most important symptoms and effects, both acute and delayed**

**Overview** No specific symptom data available.  
Treat symptomatically. See section 2 for further details.

**Ingestion** Harmful if swallowed.

**Section 5. Fire-fighting measures**

**Extinguishing media**

Suitable extinguishing media: CO<sub>2</sub>, fire extinguishing powder or fog like water spraying. Extinguish larger fires with alcohol resistant foam or spray water with suitable surfactant added.  
Unsuitable extinguishing media: Water with a full water jet.

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

Hazardous decomposition: Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

**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.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Move container from fire area if it can be done without risk. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Collect contaminated fire fighting water separately. It must not enter drains.

**ERG Guide No.** ---

**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**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of the material collected according to regulations. Stop the flow of material, if this is without risk.



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**Section 7. Handling and storage**

**Precautions for safe handling**

Handle containers carefully to prevent damage and spillage.

Prevent formation of aerosols. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products. Observe good industrial hygiene practices. Provide adequate ventilation.

See section 2 for further details. - [Prevention]

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

Do not heat up to temperatures close to the flash point.

Incompatible materials: Strong oxidizing substances. Strong acids. Strong 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
0000107-21-1	Ethane-1,2-diol	ACGIH	25 ppm TWA (vapour fraction)
		Alberta	No Established Limit
		British Columbia	10 mg/m <sup>3</sup> TWA (particulate) 20 mg/m <sup>3</sup> STEL (particulate)
		Manitoba	25 ppm TWA (vapour fraction) 50 ppm STEL (vapour fraction); 10 mg/m <sup>3</sup> STEL (inhalable particulate matter, aerosol only)
		New Brunswick	No Established Limit
		Newfoundland and Labrador	25 ppm TWA (vapour fraction) 50 ppm STEL (vapour fraction); 10 mg/m <sup>3</sup> STEL (inhalable particulate matter, aerosol only)
		Nova Scotia	25 ppm TWA (vapour fraction) 50 ppm STEL (vapour fraction); 10 mg/m <sup>3</sup> STEL (inhalable particulate matter, aerosol only)
		Northwest Territories	No Established Limit
		Nunavut	No Established Limit
		Ontario	No Established Limit
		Prince Edward Island	25 ppm TWA (vapour fraction) 50 ppm STEL (vapour fraction); 10 mg/m <sup>3</sup> STEL (inhalable particulate matter, aerosol only)
		Quebec	No Established Limit
		Saskatchewan	No Established Limit



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		Yukon	10 mg/m <sup>3</sup> TWA (particulate); 100 ppm TWA (vapour); 250 mg/m <sup>3</sup> TWA (vapour) 10 ppm STEL (particulate); 20 mg/m <sup>3</sup> STEL (particulate); 125 ppm STEL (vapour); 325 mg/m <sup>3</sup> STEL (
0000149-57-5	2-Ethylhexanoic acid	ACGIH	TWA: 5 mg/m <sup>3</sup> IV
		Alberta	5 mg/m <sup>3</sup> TWA
		British Columbia	5 mg/m <sup>3</sup> TWA (aerosol, inhalable, and vapour)
		Manitoba	5 mg/m <sup>3</sup> TWA (inhalable fraction and vapour)
		New Brunswick	No Established Limit
		Newfoundland and Labrador	5 mg/m <sup>3</sup> TWA (inhalable fraction and vapour)
		Nova Scotia	5 mg/m <sup>3</sup> TWA (inhalable fraction and vapour)
		Northwest Territories	5 mg/m <sup>3</sup> TWA (inhalable fraction and vapour) 10 mg/m <sup>3</sup> STEL (inhalable fraction and vapour)
		Nunavut	5 mg/m <sup>3</sup> TWA (inhalable fraction and vapour) 10 mg/m <sup>3</sup> STEL (inhalable fraction and vapour)
		Ontario	5 mg/m <sup>3</sup> TWA (inhalable fraction and vapour)
		Prince Edward Island	5 mg/m <sup>3</sup> TWA (inhalable fraction and vapour)
		Quebec	No Established Limit
		Saskatchewan	5 mg/m <sup>3</sup> TWA (inhalable fraction and vapour) 10 mg/m <sup>3</sup> STEL (inhalable fraction and vapour)
		Yukon	No Established Limit

**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 vapour 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.

**Section 9. Physical and chemical properties**

**Appearance**

Red-violet Liquid

**Odor**

Characteristic

**Odor threshold**

Not determined



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<b>pH</b>	7.7 - 8.5 (333 g/l)
<b>Melting point / freezing point</b>	Freezing point: -20 °C
<b>Initial boiling point and boiling range</b>	> 170 °C
<b>Flash Point</b>	> 110 °C
<b>Evaporation rate (Ether = 1)</b>	Not Available
<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>Vapour pressure (Pa)</b>	Not Available
<b>Vapour Density</b>	Not Available
<b>Relative Density</b>	1.11 g/cm <sup>3</sup> (20 °C)
<b>Solubility in Water</b>	Soluble
<b>Partition coefficient n-octanol/water (Log Kow)</b>	Not Available
<b>Auto-ignition temperature</b>	Not Available
<b>Decomposition temperature</b>	Not Available
<b>Viscosity (cSt)</b>	Kinematic viscosity: 20 - 30 mm <sup>2</sup> /s (20 °C)
<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

No data available.

### Incompatible materials

Strong oxidizing substances. Strong acids. Strong bases.

### Hazardous decomposition products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.



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**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)	7,712.00, Rat - Category: NA	3,501.00, Mouse - Category: 5	No data available	No data available	No data available
2-Ethylhexanoic acid - (149-57-5)	3,640.00, Rat - Category: 5	>2,000.00, Rabbit - Category: 5	No data available	No data available	No data available

**Carcinogen Data**

CAS No.	Ingredient	Source	Value
0000107-21-1	Ethane-1,2-diol	IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
		ACGIH	A4
0000149-57-5	2-Ethylhexanoic acid	IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
		ACGIH	No Established Limit

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	---	Not Applicable
Aspiration hazard	---	Not Applicable

Possible routes of entry: No data available.

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

No specific symptom data available.

Treat symptomatically.



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**Ingestion** Harmful if swallowed.

**Section 12. Ecological information**

**Toxicity**

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

Contains Ethanol, 2,2'-iminobis-, N-C12-18-alkyl derivs. (71786-60-2) which has an M-Factor of 10, leading to the GHS classification H402/H412.

**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 (96 hr), Green algae
2-Ethylhexanoic acid - (149-57-5)	180.00, Oncorhynchus mykiss	106.00, Daphnia magna	130.00 (96 hr), Pseudokirchneriella subcapitata

**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**

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>TDG (Domestic Surface Transportation)</b>	<b>IMO / IMDG (Ocean Transportation)</b>	<b>ICAO/IATA</b>
<b>UN number</b>	Not Regulated	Not Regulated	Not Regulated
<b>UN proper shipping name</b>	Not Regulated	Not Regulated	Not Regulated
<b>Transport hazard class(es)</b>	<b>TDG Hazard Class:</b> Not Applicable <b>Sub Class:</b> Not Applicable	<b>IMDG:</b> Not Applicable <b>Sub Class:</b> Not Applicable	<b>Air Class:</b> Not Applicable <b>Sub Class:</b> Not Applicable
<b>Packing group</b>	Not Applicable	Not Applicable	Not Applicable
<b>Environmental hazards</b>			
<b>IMDG</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 the hazard criteria Hazardous Products Regulations (SOR/2015-17) and the SDS contains all of the information required by those regulations.

Toxic Substance Control Act ( TSCA)

2-Ethylhexanoic acid

Ethane-1,2-diol

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

2-Ethylhexanoic acid

Ethane-1,2-diol

**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%):**

2-Ethylhexanoic acid

Ethane-1,2-diol

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

Ethane-1,2-diol



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**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).

Chemical Name (CAS Number)	US TSCA	Australia AICS	Korea ECL	EU EINECS	EU ELINCS	EU SVHC	EN NLP	Mexico INSQ
Ethane-1,2-diol (0000107-21-1)	Yes	Yes	Yes	Yes	No	No	No	Yes
2-Ethylhexanoic acid (0000149-57-5)	Yes	Yes	Yes	Yes	No	No	No	Yes

Chemical Name (CAS Number)	China IECSC	Japan ENCS	Japan ISHL	Japan PDSCL	Japan PRTR 1	Japan PRTR 2	Philippines PICCS	New Zealand NZIOC
Ethane-1,2-diol (0000107-21-1)	Yes	Yes	Yes	No	No	No	Yes	Yes
2-Ethylhexanoic acid (0000149-57-5)	Yes	Yes	Yes	No	Yes	No	Yes	Yes

**Section 16. Other information**

**Revision Date**                      09/08/2022

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.

H361d Suspected of damaging the unborn child.

End of Document