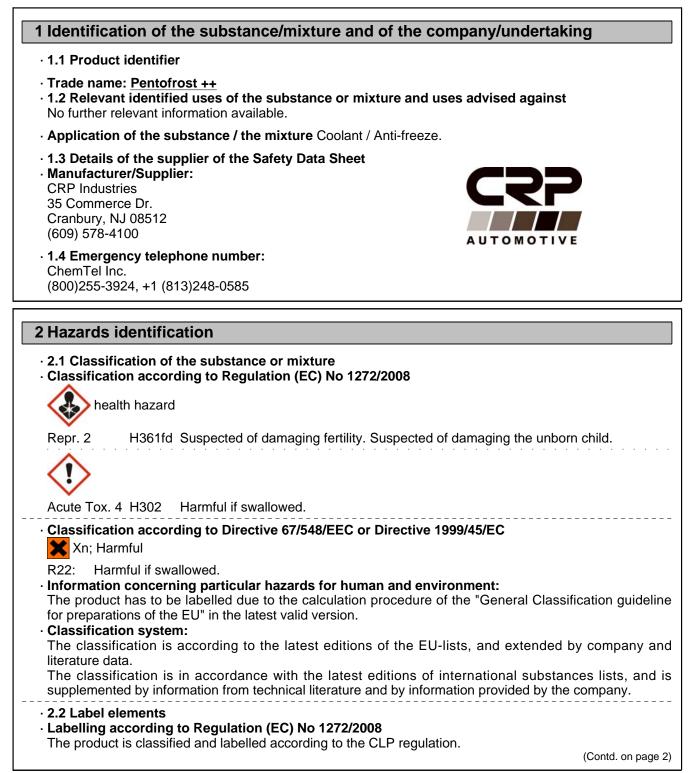
GHS

Printing date 16.01.2014

Revision: 16.01.2014



Printing date 16.01.2014

Revision: 16.01.2014

Trade name: Pentofrost ++
(Contd. of page 1)
· Hazard pictograms
GHS07 GHS08
· Signal word Warning
 Hazard-determining components of labelling: ethanediol
2-ethylhexanoic acid
• Hazard statements H302 Harmful if swallowed.
H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
Precautionary statements
P102 Keep out of reach of children.
P281 Use personal protective equipment as required. P264 Wash thoroughly after handling.
P202 Do not handle until all safety precautions have been read and understood.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
· Hazard description:
· WHMIS-symbols:
D1B - Toxic material causing immediate and serious toxic effects
D2A - Very toxic material causing other toxic effects
· NFPA ratings (scale 0 - 4)
Health = 2
2 0 Fire = 1
Reactivity = 0
· HMIS-ratings (scale 0 - 4)
HEALTH 2 Health = *2
FIRE 1 Fire = 1
REACTIVITY Reactivity = 0
* - Indicates a long term health hazard from repeated or prolonged exposures.
HMIS Long Term Health Hazard Substances
149-57-5 2-ethylhexanoic acid
· 2.3 Other hazards · Results of PBT and vPvB assessment
· PBT: Not applicable.
(Contd. on page 3)

Printing date 16.01.2014

Revision: 16.01.2014

Trade name: Pentofrost ++

· vPvB: Not applicable.

3 Composition/information on ingredients

- · 3.2 Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 107-21-1	ethanediol	50-100%
EINECS: 203-473-3	🗙 Xn R22	
Index number: 603-027-00-1	🚸 Acute Tox. 4, H302	
CAS: 149-57-5	2-ethylhexanoic acid	< 5,0%
EINECS: 205-743-6	🗙 Xn R63	
Index number: 607-230-00-6	Repr. Cat. 3	
	🚸 Repr. 2, H361d	
· Additional information: For	the wording of the listed risk phrases refer to section 16.	

4 First aid measures

 4.1 Description of first aid measures 	
· General information:	
Symptoms of poisoning may even occur after several hours; therefore medical observati	on for at least 48
hours after the accident.	
 After inhalation: Supply fresh air; consult doctor in case of complaints. 	
· After skin contact:	
Immediately rinse with water.	
If skin irritation continues, consult a doctor.	
· After eye contact:	
Remove contact lenses if worn.	
Rinse opened eye for several minutes under running water. If symptoms persist, consult	a doctor.
· After swallowing:	
Rinse out mouth and then drink plenty of water.	
Do not induce vomiting; call for medical help immediately.	
· 4.2 Most important symptoms and effects, both acute and delayed	
Headache	
Nausea	
Cramp	
Acidosis	
Dizziness	
Disorientation	
· Hazards	
Danger of circulatory collapse.	
No further relevant information available.	
• 4.3 Indication of any immediate medical attention and special treatment needed	
Contains ethylene glycol. Consult literature for specific antidotes.	
	(Contd. on page 4)

(Contd. of page 2)

Printing date 16.01.2014

Revision: 16.01.2014

(Contd. of page 3)

Trade name: Pentofrost ++

Medical supervision for at least 48 hours.

5 Firefighting measures

- · 5.1 Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- For safety reasons unsuitable extinguishing agents: None.
- **5.2 Special hazards arising from the substance or mixture** Formation of toxic gases is possible during heating or in case of fire.
- Formation of toxic gases is possible during heating or in c
- 5.3 Advice for firefighters
- **Protective equipment:** Wear self-contained respiratory protective device.
- Wear fully protective suit.
- · Additional information No further relevant information available.

6 Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Use respiratory protective device against the effects of fumes/dust/aerosol. Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation
- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

• 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Send for recovery or disposal in suitable receptacles.

- Dispose contaminated material as waste according to item 13.
- 6.4 Reference to other sections
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

7 Handling and storage

· 7.1 Precautions for safe handling

Prevent formation of aerosols.

Use only in well ventilated areas.

- · Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Avoid storage near extreme heat, ignition sources or open flame.
- Information about storage in one common storage facility: Store away from foodstuffs.

Do not store together with oxidizing and acidic materials.

• Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.

(Contd. on page 5)

GHS

Printing date 16.01.2014

Revision: 16.01.2014

Trade name: Pentofrost ++

• 7.3 Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

· 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace: 107-21-1 ethanedio IOELV (EU) Short-term value: 104 mg/m³, 40 ppm Long-term value: 52 mg/m³, 20 ppm Skin TLV (USA) Ceiling limit: 100 mg/m³ H EL (Canada) Short-term value: C 100* 20** mg/m³, C 50*** ppm Long-term value: 10** mg/m³ *Aerosol; **Particulate; ***Vapour 149-57-5 2-ethylhexanoic acid TLV (USA) Long-term value: 5* mg/m³ *aerosol; **Particulate; ***Vapour 149-57-5 2-ethylhexanoic acid TLV (USA) Long-term value: 5* mg/m³ *aerosol; **Particulate; ***Wapour 149-57-5 2-ethylhexanoic acid TLV (USA) Long-term value: 5* mg/m³ vapour and aerosol; R EV (Canada) Long-term value: 5 mg/m³ inhalable fraction and vapor EL (Canada) Long-term value: 5 mg/m³ vapour and aerosol; R EV (Canada) Long-term value: 5 mg/m³ inhalable, aerosol and vapour DNELs No further relevant information available. PNECs No further relevant information available. PNECs No further relevant information available. Additional information: The lists valid during the making were used as basis. S.2 Exposure controls Personal protective equipment: General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Use skin protection cream for skin protection. Not necessary if room is well-ventilated. Use suitable respiratory protection: Not necessary if room is well-ventilated. Use suitable respiratory protection: Not necessary if room is well-ventilated. Use suitable respiratory protection of hands: Not required under normal conditions of use. Wear protection gloves to handle contents of damaged or leaking units. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemi	· 8.1 Control p	parameters
IOELV (EU) Short-term value: 104 mg/m³, 40 ppm Long-term value: 52 mg/m³, 20 ppm Skin TLV (USA) Ceiling limit: 100 mg/m³ H EL (Canada) Short-term value: C 100° 20** mg/m³, C 50*** ppm Long-term value: 10** mg/m³ *Aerosol; **Particulate; ***Vapour 149-57-5 2-ethylhexanoic acid TLV (USA) Long-term value: 5* mg/m³ *as inhalable fraction and vapor EL (Canada) Long-term value: 5 mg/m³ vapour and aerosol; R EV (Canada) Long-term value: 5 mg/m³ inhalable, aerosol and vapour • DNELs No further relevant information available. • PNECS No further relevant information available. • PNECs No further relevant information available. • Additional information: The lists valid during the making were used as basis. • 8.2 Exposure controls • Personal protective equipment: · General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Use skin protection cream for skin protection. • Respiratory protection: Not necessary if room is well-ventilated. Use suitable respiratory protection: Not required under normal conditions of use. Wear protective gloves to handle contents of damaged or leaking units. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates	-	
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degradation. (Contd. on page 6)	 Personal prot General prot Keep away free Wash hands Use skin prote Respiratory Not necessar Use suitable Protection of Not required Wear protecti The glove made Due to missis preparation/t 	<pre>betective equipment: ective and hygienic measures: om foodstuffs, beverages and feed. before breaks and at the end of work. ection cream for skin protection. protection: y if room is well-ventilated. respiratory protective device when high concentrations are present. f hands: under normal conditions of use. ve gloves to handle contents of damaged or leaking units. terial has to be impermeable and resistant to the product/ the substance/ the preparation. ing tests no recommendation to the glove material can be given for the product/ the he chemical mixture. the glove material on consideration of the penetration times, rates of diffusion and the</pre>

(Contd. of page 4)

GHS

Revision: 16.01.2014

Printing date 16.01.2014

Trade name: Pentofrost ++

(Contd. of page 5)

• Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Safety glasses

· Body protection:

Not required under normal conditions of use.

Protection may be required for spills.

- Limitation and supervision of exposure into the environment No further relevant information available.
- Risk management measures See Section 7 for additional information.

No further relevant information available.

Liquid Violet Characteristic Not determined. Slightly alkaline Not Determined. 387 °F / 197 °C	
Violet Characteristic Not determined. Slightly alkaline Not Determined.	
Violet Characteristic Not determined. Slightly alkaline Not Determined.	
Characteristic Not determined. Slightly alkaline Not Determined.	
Not determined. Slightly alkaline Not Determined.	
Slightly alkaline Not Determined.	
Not Determined.	
297 °E / 107 °C	
307 F/197 C	
232 °F / 111 °C	
Not applicable.	
Not determined.	
Not determined.	
Product is not self-igniting.	
Product does not present an explosion hazard.	
	Not applicable. Not determined. Not determined.

Printing date 16.01.2014

Revision: 16.01.2014

Trade name: Pentofrost ++

		(Contd. of page 6)
· Explosion limits:		
Lower:	3,2 Vol %	
Upper:	53,0 Vol %	
· Vapour pressure at 20 °C:	0,08 hPa	
· Density at 20 °C:	1,1 g/cm ³	
· Relative density	Not determined.	
· Vapour density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
water:	Fully miscible.	
· Partition coefficient (n-octanol/wa	ater): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
 9.2 Other information 	No further relevant information available.	

10 Stability and reactivity

- · 10.1 Reactivity
- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

· 10.3 Possibility of hazardous reactions

Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised. Toxic fumes may be released if heated above the decomposition point. Reacts with strong acids and oxidizing agents.

- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: Carbon monoxide and carbon dioxide

11 Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity:

· LD/LC50 values relevant for classification:

107-21-1 ethanediol

- Oral LD50 5840 mg/kg (rat)
- Dermal LD50 9530 mg/kg (rabbit)
- · Primary irritant effect:
- on the skin: No irritant effect.
- \cdot on the eye: Slight irritant effect on eyes.

(Contd. on page 8)

Printing date 16.01.2014

Revision: 16.01.2014

Trade name: Pentofrost ++

(Contd. of page 7)

- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Harmful

- Toxic and/or corrosive effects may be delayed up to 48 hours.
- · Acute effects (acute toxicity, irritation and corrosivity): Vapours have narcotic effect.
- Repeated dose toxicity: May cause damage to organs through prolonged or repeated exposure.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction):
- Repr. 2

12 Ecological information

- 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Harmful to aquatic organisms

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- 12.6 Other adverse effects No further relevant information available.

13 Disposal considerations

- 13.1 Waste treatment methods
- · Recommendation Must not be disposed together with household garbage. Do not allow product to reach sewage system. Contact waste processors for recycling information.
- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

14 Transport information

- · 14.1 UN-Number
- · DOT, ADR, ADN, IMDG, IATA

Not Regulated

(Contd. on page 9)

Printing date 16.01.2014

Revision: 16.01.2014

Trade name: Pentofrost ++

		(Contd. of page 8)
 · 14.2 UN proper shipping name · DOT, ADR, ADN, IMDG, IATA 	Not Regulated	
· 14.3 Transport hazard class(es)		
· DOT, ADR, ADN, IMDG, IATA · Class	Not Regulated	
 · 14.4 Packing group · DOT, ADR, IMDG, IATA 	Not Regulated	
 · 14.5 Environmental hazards: · Marine pollutant: 	No	
· 14.6 Special precautions for user	Not applicable.	
 14.7 Transport in bulk according to Anne MARPOL73/78 and the IBC Code 	ex II of Not applicable.	
· UN "Model Regulation":	-	

15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
 United States (USA)

· SARA

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

107-21-1 ethanediol

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65 (California):

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

149-57-5 2-ethylhexanoic acid

· Carcinogenic Categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

(Contd. on page 10)

Printing date 16.01.2014

Revision: 16.01.2014

(Contd. of page 9)

Trade name: Pentofrost ++

IARC (International Agency for Research on Cancelland)	
	er)
None of the ingredients is listed.	
· TLV (Threshold Limit Value established by ACGIH	
107-21-1 ethanediol	A4
· NIOSH-Ca (National Institute for Occupational Saf	ety and Health)
None of the ingredients is listed.	
· OSHA-Ca (Occupational Safety & Health Administ	ration)
None of the ingredients is listed.	
· Canada	
· Canadian Domestic Substances List (DSL)	
All ingredients are listed.	
· Canadian Ingredient Disclosure list (limit 0.1%)	
None of the ingredients is listed.	
· Canadian Ingredient Disclosure list (limit 1%)	
107-21-1 ethanediol	
149-57-5 2-ethylhexanoic acid	
• 15.2 Chemical safety assessment: A Chemical Safe	ety Assessment has not been carried out.
16 Other information This information is based on our present knowledge any specific product features and shall not establish a	
 Relevant phrases H302 Harmful if swallowed. 	
H361d Suspected of damaging the unborn child.	
H361d Suspected of damaging the unborn child. R22 Harmful if swallowed.	
R22 Harmful if swallowed.	
 R22 Harmful if swallowed. R63 Possible risk of harm to the unborn child. ADR: Accord européen sur le transport des marchandises da International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of ACGIH: American Conference of Governmental Industrial Hygienist EINECS: European Inventory of Existing Commercial Chemical Sub ELINCS: European List of Notified Chemical Substances 	of Chemicals is ostances
 R22 Harmful if swallowed. R63 Possible risk of harm to the unborn child. Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises da International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of ACGIH: American Conference of Governmental Industrial Hygienist EINECS: European Inventory of Existing Commercial Chemical Sub ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemic NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) 	of Chemicals is ostances val Society)
 R22 Harmful if swallowed. R63 Possible risk of harm to the unborn child. Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises da International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of ACGIH: American Conference of Governmental Industrial Hygienist EINECS: European Inventory of Existing Commercial Chemical Sub ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical NFPA: National Fire Protection Association (USA) 	of Chemicals is ostances val Society)
 R22 Harmful if swallowed. R63 Possible risk of harm to the unborn child. Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises da International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of ACGIH: American Conference of Governmental Industrial Hygienist EINECS: European Inventory of Existing Commercial Chemical Sub ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemic NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Cana DNEL: Derived No-Effect Level (REACH) 	of Chemicals is ostances val Society)

Printing date 16.01.2014

Revision: 16.01.2014

Trade name: Pentofrost ++

(Contd. of page 10)

 Sources
 SDS Prepared by: ChemTel Inc.
 1305 North Florida Avenue
 Tampa, Florida USA 33602-2902
 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573
 Website: www.chemtelinc.com