

# Safety Data Sheet: NO-FROST AEROSOL

Supersedes Date 01/06/2011

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## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** NO-FROST AEROSOL  
**Recommended use** Automotive Care Product  
**Information on Manufacturer**  
CERTIFIED LABS, DIV. OF NCH CORP.  
BOX 152170  
IRVING, TEXAS 75015

**Product Code** 5195  
**Chemical nature** Solvent mixture  
**Emergency Telephone Number**  
CHEMTREC® 800-424-9300  
**Telephone inquiry**  
972-579-2477

## 2. HAZARD IDENTIFICATION

**Color** Colorless

**Physical State** Liquid

**Odor** Alcoholic

### GHS

#### Classification

##### Physical Hazards

Flammable aerosols  
Gases under pressure

Category 1  
Compressed Gas

##### Health Hazard

Aspiration Toxicity  
Acute Oral Toxicity  
Acute Dermal Toxicity  
Acute Inhalation Toxicity - Gas  
Acute Inhalation Toxicity - Vapors  
Acute Inhalation Toxicity - Dusts and Mists  
Skin Corrosion/Irritation  
Serious Eye Damage/Eye Irritation  
Reproductive Toxicity  
Specific target organ systemic toxicity (single exposure)  
Specific target organ systemic toxicity (repeated exposure)

Category 1  
Category 2  
Category 3  
Category 3  
Category 3  
Category 3  
Category 2  
Category 1  
Category 2  
Category 3  
Category 2

##### Other hazards

None

### Labeling

#### Signal Word

**DANGER**



#### Hazard Statements

H222 - Extremely flammable aerosol  
H331 - Toxic if inhaled  
H336 - May cause drowsiness or dizziness  
H311 - Toxic in contact with skin  
H315 - Causes skin irritation  
H318 - Causes serious eye damage  
H300 - Fatal if swallowed  
H304 - May be fatal if swallowed and enters airways  
H361 - Suspected of damaging fertility or the unborn child  
H373 - May cause damage to organs through prolonged or repeated exposure  
H280 - Contains gas under pressure; may explode if heated

#### Precautionary Statements

P202 - Do not handle until all safety precautions have been read and understood  
P210 - Keep away from heat, sparks, open flames or hot surfaces.  
P251 - Pressurized container: Do not pierce or burn, even after use  
P260 - Do not breathe mist or vapor .  
P271 - Use in a well-ventilated area.  
P270 - Do not eat, drink or smoke when using this product  
P280 - Wear protective gloves, protective clothing and eye protection.  
P302+ P352 - IF ON SKIN: Wash with plenty of soap and water  
P332 + P313 - If skin irritation occurs, get medical attention.  
P362 - Take off contaminated clothing and wash before reuse  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 - Immediately call a physician  
P301+ P330 + P331 - IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Call a physician if unwell.  
P410 + P403 - Protect from sunlight. Store in a well-ventilated place  
P501 - Dispose of contents and container in accordance with applicable regulations.

5 % of the mixture consists of ingredient(s) of unknown toxicity

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Methyl alcohol	67-56-1	60-100
n-Propyl alcohol	71-23-8	10-30
Propylene glycol	57-55-6	10-30
Carbon dioxide	124-38-9	3-7

### 4. FIRST AID MEASURES

<b>General advice</b>	Avoid breathing vapors, mist, or gas. Avoid contact with skin, eyes and clothing.
<b>Eye Contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately.
<b>Skin Contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention if irritation develops and persists. Wash contaminated clothing before re-use.
<b>Inhalation</b>	Move to fresh air. In case of shortness of breath, give oxygen. If breathing has stopped, apply artificial respiration. Get medical attention immediately.
<b>Ingestion</b>	Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person. Rinse mouth.
<b>Notes to physician</b>	Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

<b>Flash Point</b>	52 °F / 11 °C	<b>Method</b>	Seta closed cup
<b>Flammability Limits in Air % Solvent mixture.</b>		<b>Upper</b>	36.0
<b>Suitable Extinguishing Media</b>		<b>Lower</b>	2.2
Foam. Carbon dioxide (CO <sub>2</sub> ). Dry chemical. Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.			
<b>Specific hazards arising from the chemical</b>			
Flame extension: >30 inches / >76 cm and Burnback: 3 inch / 7.6 cm. Solvent vapors are heavier than air and may spread along floors. Vapors may ignite and explode. Material can create slippery conditions.			
<b>Protective Equipment and Precautions for Firefighters</b>			
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.			
<b>Aerosol Level (NFPA 30B) -</b>	1		
<b>NFPA</b>	<b>Health 2</b>	<b>Flammability 4</b>	<b>Instability 0</b>
<b>HMIS</b>	<b>Health 2</b>	<b>Flammability 4</b>	<b>Instability 0</b>

### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Use personal protective equipment. Ensure adequate ventilation. Take precautionary measures against static discharges. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.
<b>Environmental Precautions</b>	Do not flush into surface water or sanitary sewer system.
<b>Methods for Containment</b>	Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
<b>Methods for Cleaning Up</b>	Use clean non-sparking tools to collect absorbed material. Pick up and transfer to properly labeled containers.
<b>Neutralizing Agent</b>	Not applicable.

### 7. HANDLING AND STORAGE

<b>Handling</b>	Keep away from flames and hot surfaces. Avoid breathing vapors, mist or gas. Avoid contact with skin, eyes and clothing.
<b>Storage</b>	Keep away from open flames, hot surfaces and sources of ignition. Store in original container. Keep in a dry, cool and well-ventilated place.
<b>Storage Temperature</b>	<b>Minimum</b> 0 °F / -18 °C
<b>Storage Conditions</b>	<b>Maximum</b> 120 °F / 49 °C
	<b>Indoor</b> X <b>Outdoor</b> <b>Heated</b> <b>Refrigerated</b>

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Guidelines**

Component	ACGIH TLV	OSHA PEL	NIOSH
Methyl alcohol	TWA: 200 ppm Skin STEL: 250 ppm	TWA: 200 ppm TWA: 260 mg/m <sup>3</sup>	IDLH: 6000 ppm STEL 250 ppm STEL 325 mg/m <sup>3</sup> TWA: 200 ppm TWA: 260 mg/m <sup>3</sup>
n-Propyl alcohol	TWA: 100 ppm	TWA: 200 ppm TWA: 500 mg/m <sup>3</sup>	IDLH: 800 ppm STEL 250 ppm STEL 625 mg/m <sup>3</sup> TWA: 200 ppm TWA: 500 mg/m <sup>3</sup>
Propylene glycol	No data available	No data available	No data available
Carbon dioxide	TWA: 5000 ppm STEL: 30000 ppm	TWA: 5000 ppm TWA: 9000 mg/m <sup>3</sup>	IDLH: 40000 ppm STEL 30000 ppm STEL 54000 mg/m <sup>3</sup> TWA: 5000 ppm TWA: 9000 mg/m <sup>3</sup>

**Engineering Measures**

Ensure adequate ventilation, especially in confined areas. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

**Personal Protective Equipment****Eye/Face Protection**

Tightly fitting safety goggles.

**Skin Protection**

Wear suitable protective clothing, Impervious gloves.

**Respiratory Protection**

In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**General Hygiene Considerations**

Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use. Wear protective gloves/clothing.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State</b>	Liquid	<b>Viscosity</b>	Non viscous
<b>Color</b>	Colorless	<b>Odor</b>	Alcoholic
<b>Odor Threshold</b>	Not applicable	<b>Appearance</b>	Transparent
<b>pH</b>	Not applicable	<b>Specific Gravity</b>	0.62
<b>Evaporation Rate</b>	129.3 (Butyl acetate=1)	<b>Percent Volatile (Volume)</b>	100
<b>VOC Content (%)</b>	94.7	<b>VOC Content (g/L)</b>	587
<b>Vapor Pressure</b>	3391 mmHg @ 70°F	<b>Vapor Density</b>	1.5 (Air = 1.0)
<b>Solubility</b>	Completely soluble	<b>n-Octanol/Water Partition</b>	No data available
<b>Melting Point/Range</b>	No data available	<b>Decomposition Temperature</b>	No data available
<b>Boiling Point/Range</b>	148 °F / 64 °C	<b>Flammability (solid, gas)</b>	No data available
<b>Flash Point</b>	52 °F / 11 °C	<b>Method</b>	Seta closed cup
<b>Autoignition Temperature</b>	No information available.		
<b>Flammability Limits in Air %</b>	Solvent mixture.	<b>Upper 36.0 Lower 2.2</b>	

**10. STABILITY AND REACTIVITY**

<b>Chemical Stability</b>	Stable. Hazardous polymerization does not occur.
<b>Conditions to Avoid</b>	Keep away from open flames, hot surfaces, and sources of ignition
<b>Incompatible Products</b>	Strong oxidizing agents, Reducing agents, Acids, Highly halogenated compounds, Light and/or alkaline metals.
<b>Hazardous Decomposition Products</b>	Carbon oxides
<b>Possibility of Hazardous Reactions</b>	None under normal processing

**11. TOXICOLOGICAL INFORMATION****Product Information**

The following values are calculated based on chapter 3.1 of the GHS document (Rev. 3, 2009):

<b>Oral LD50</b>	No information available
<b>Dermal LD50</b>	No information available
<b>Inhalation LC50</b>	
<b>Gas</b>	No information available
<b>Mist</b>	No information available
<b>Vapor</b>	No information available

<b>Principle Route of Exposure</b>	Skin contact, Eye contact, Inhalation.
<b>Primary Routes of Entry</b>	Inhalation, Ingestion, Skin Absorption.
<b>Acute Effects</b>	

<b>Eyes</b>	Severe irritation.
<b>Skin</b>	Causes skin irritation. Substance may be absorbed through the skin which can contribute to damage to the optic nerve resulting in permanent vision changes, loss of vision, or total blindness.
<b>Inhalation</b>	May cause irritation of respiratory tract. Inhalation may cause central nervous system effects. May cause central nervous system depression. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Inhalation of vapors in high concentration can cause narcotic effects and metabolic acidosis.
<b>Ingestion</b>	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be fatal or cause blindness if swallowed. Blood disorder may occur after ingestion. Acidosis.
<b>Chronic Toxicity</b>	Repeated and prolonged exposure to solvents may cause brain and nervous system damage. Inhalation of vapors in high concentration can cause narcotic effects and metabolic acidosis. May cause damage to the kidneys/liver/eyes/brain/digestive system/central nervous system if swallowed. Suspect reproductive hazard - contains material which may injure unborn child.
<b>Target Organ Effects</b>	Respiratory system, Central nervous system, Peripheral Nervous System (PNS), Cardiovascular system, Eyes, Ears, Pancreas, Gastrointestinal tract, Liver, Kidney, Blood, Lymphatic System, Spleen, Reproductive System.
<b>Aggravated Medical Conditions</b>	Respiratory disorders, Skin disorders, Neurological disorders, Liver disorders, Kidney disorders, Blood disorders, Heart disease.

## Component Information

## Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Methyl alcohol	= 5628 mg/kg ( Rat )	no data available	= 83.2 mg/L ( Rat ) 4 h	no data available	no data available
n-Propyl alcohol	= 1870 mg/kg ( Rat )	no data available	> 13548 ppm ( Rat ) 4 h	no data available	no data available
Propylene glycol	= 20000 mg/kg ( Rat )	= 20800 mg/kg ( Rabbit )	no data available	no data available	no data available
Carbon dioxide	no data available	no data available	no data available	no data available	no data available

## Chronic Toxicity

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Methyl alcohol	no data available	no data available	x	no data available	eyes, CNS, skin, GI tract, respiratory system, kidney, spleen, liver, blood, pancreas, heart, reproductive system
n-Propyl alcohol	no data available	no data available	no data available	no data available	skin,eyes,respiratory system,GI tract,CNS
Propylene glycol	no data available	no data available	no data available	no data available	CNS, liver, kidney
Carbon dioxide	no data available	no data available	no data available	no data available	respiratory system,CVS

## Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	ACGIH	IARC	NTP	OSHA	Other
Methyl alcohol	not applicable	not applicable	not applicable	not applicable	not applicable
n-Propyl alcohol	not applicable	not applicable	not applicable	not applicable	not applicable
Propylene glycol	not applicable	not applicable	not applicable	not applicable	not applicable
Carbon dioxide	not applicable	not applicable	not applicable	not applicable	not applicable

## 12. ECOLOGICAL INFORMATION

## Product Information

No information available.

## Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Methyl alcohol	no data available	LC50 = 28200 mg/L Pimephales promelas 96 h LC50 > 100 mg/L Pimephales promelas 96 h LC50 19500 - 20700 mg/L Oncorhynchus mykiss 96 h LC50 18 - 20 mL/L Oncorhynchus mykiss 96 h LC50 13500 - 17600 mg/L Lepomis macrochirus 96 h	EC50 = 39000 mg/L 25 min EC50 = 40000 mg/L 15 min EC50 = 43000 mg/L 5 min	no data available	-0.77
n-Propyl alcohol	no data available	LC50 = 4480 mg/L Pimephales promelas 96 h	EC50 = 17700 mg/L 5 min EC50 = 45000 mg/L 5 h EC50 = 8686 mg/L 15 min EC50 = 980 mg/L 12 h	EC50= 3642 mg/L 48 h EC50 3339 - 3977 mg/L 48 h	0.25 - 0.34
Propylene glycol	EC50 = 19000 mg/L Pseudokirchneriella subcapitata 96 h	LC50 = 51600 mg/L Oncorhynchus mykiss 96 h LC50 41 - 47 mL/L Oncorhynchus mykiss 96 h	EC50 = 710 mg/L 30 min	EC50> 10000 mg/L 24 h EC50> 1000 mg/L 48 h	N/A

		LC50 = 51400 mg/L Pimephales promelas 96 h LC50 = 710 mg/L Pimephales promelas 96 h			
Carbon dioxide	no data available	no data available	no data available	no data available	N/A

**Persistence and Degradability** No information available.  
**Bioaccumulation** No information available.  
**Mobility** No information available.

### 13. DISPOSAL CONSIDERATIONS

**Product Disposal** Dispose of in accordance with local regulations.  
**Container Disposal** Contents under pressure. Do not puncture. Empty remaining contents. Empty containers should be taken for local recycling, recovery, or waste disposal.

### 14. TRANSPORT INFORMATION

**DOT**  
**Proper Shipping Name** Consumer commodity  
**Hazard Class** ORM-D  
**Description** Consumer commodity ,ORM-D,

**TDG**  
**Hazard Class** 2.1  
**UN-No** UN1950

**ICAO**  
**UN-No** UN1950  
**Proper Shipping Name** Aerosols  
**Hazard Class** 2.1  
**Shipping Description** UN1950, AEROSOLS, 2.1, LTD QTY

**IATA**  
**UN-No** UN1950  
**Proper Shipping Name** Aerosols, flammable  
**Hazard Class** 2.1  
**ERG Code** 10L  
**Shipping Description** UN1950,Aerosols, flammable,2.1, LTD QTY

**IMDG/IMO**  
**Proper Shipping Name** Aerosols  
**Hazard Class** 2.1  
**UN-No** UN1950  
**EmS No.** F-D, S-U  
**Shipping Description** UN1950, Aerosols,2.1, LTD QTY

### 15. REGULATORY INFORMATION

**Inventories**  
**TSCA** Complies  
**DSL** Complies

#### U.S. Federal Regulations

##### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Component	CAS-No	Weight %	SARA 313 - Threshold Values
Methyl alcohol	67-56-1	60-100	1.0

##### SARA 311/312 Hazardous Categorization

Acute Health Hazard	Chronic Health Hazard	Fire Hazard	Sudden Release of Pressure Hazard	Reactive Hazard
Yes	Yes	Yes	Yes	No

##### CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Methyl alcohol	5000 lb	Not applicable
n-Propyl alcohol	Not applicable	Not applicable

Propylene glycol	Not applicable	Not applicable
Carbon dioxide	Not applicable	Not applicable

**16. OTHER INFORMATION**

**Prepared By** Adrienne McKee

**Supersedes Date** 01/06/2011

**Issuing Date** 09/12/2013

**Reason for Revision** No information available.

**Glossary** No information available.

**List of References.** No information available.

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