

Issue Date 12/12/2012

Revision Date 12/18/2020

Version 2

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product Identifier

Product Name Protect

### Other means of identification

Product Code 5135

### Recommended use of the chemical and restrictions on use

Recommended use Auto Detailing  
Uses Advised Against For industrial and institutional use only.

### Details of the supplier of the safety data sheet

Company Name Blue Cardinal Chemical, LLC  
3670 Scarlet Oak Blvd.  
St. Louis, MO 63122  
800-325-3312

### Emergency telephone number

Emergency Telephone CHEMTEL 1-800-255-3924

## 2. HAZARDS IDENTIFICATION

### Classification

Flammable Aerosol	Category 2
Liquefied Gas	
Eye Irritant	Category 2B

### Label elements

### Emergency Overview

## WARNING

### Hazard statements

Flammable Aerosol. Contains gas under pressure; May explode if heated. Causes eye irritation.



Appearance: White Foam Spray

Physical state: Liquefied Gas

Odor: Alcohol



### Precautionary Statements - Prevention

Keep away from heat, sparks, open flames, and hot surfaces. -No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50° C/122° F. Wear safety glasses.

**Precautionary Statements - Response**

Wash hands thoroughly after handling. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

**Precautionary Statements - Storage**

Store in a well-ventilated place.

**Precautionary Statements - Disposal**

Dispose of in accordance with federal, state, and local regulations.

**Hazards not otherwise classified (HNOC)****Other Information**

• N/A

Unknown Acute Toxicity

0 % of the mixture consists of ingredient(s) of unknown toxicity

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NO.	WEIGHT - %	TRADE SECRET
Isopropyl Alcohol	67-63-0	3-7%	*
PropaneIn-Butane	68476-86-8	3-7%	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

**First aid measures****Skin Contact**

Wash thoroughly with soap and water for 15 minutes. Seek medical attention if irritation develops.

**Eye Contact**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

**Inhalation**

Move to fresh air. If irritation or other symptoms develop, seek medical attention.

**Ingestion**

Do not induce vomiting. Rinse mouth out with water.

**Most important symptoms and effect, both acute and delayed****Symptoms**

ACUTE HEALTH HAZARDS: None Known

CHRONIC HEALTH HAZARDS: None known

**Indication of any immediate medical attention and special treatment needed****Note to physicians**

There is no specific treatment regimen. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media**

Dry chemical, foam, or Carbon Dioxide (CO2).

**Unsuitable extinguishing media:** N/A

**Unusual fire and explosion hazards**

Contents under pressure. Exposure to temperatures above 120°F may cause bursting. Flammable.

**Protective equipment and precautions for firefighters**

Wear NIOSH approved Self Contained Breathing Apparatus with a full face piece operated in a positive pressure demand mode with full body protective clothing when fighting fires. A void contact with skin and breathing smoke, fumes, and decomposition products. Cool fire exposed containers with water fog to prevent bursting.

**Hazardous combustion products**

Oxides of carbon

## 6. ACCIDENTAL RELEASE MEASURES

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

Refer to section 8 for proper Personal Protective Equipment.

**Methods and material for containment and cleaning up****Methods for containment & cleaning up**

Absorb with non-combustible material like vermiculite, sand or earth and rinse with small amount of soapy water. Do not allow to drain into sewers or storm drains. Dispose of in accordance with local, state and federal regulations. Dispose of in accordance with federal, state, and local regulations.

**RCRA status**

Waste likely considered non-hazardous under RCRA, however, product should be fully characterized prior to disposal (40 CFR 261).

## 7. HANDLING AND STORAGE

**Precautions for safe handling****Advice on Safe Handling**

Keep out of the reach of children.

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

Pressurized container: Do not pierce or burn, even after use. Protect from sunlight. Store in a well ventilated place. Do not expose to temperatures exceeding 50°C/122°F.

**Incompatible Materials**

Strong inorganic and organic bases.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

CHEMICAL NAME	OSHA PEL	ACGIH TLV
Isooprovl Alcohol	400 ppm	200 ppm
Propane/n-Butane	1000 ppm	1000 ppm

**Appropriate engineering controls****Engineering Controls**

General ventilation and local exhaust should be adequate.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Safety glasses

**Respiratory protection**

Wear NIOSH/MSHA approved respiratory protection if used in confined, poorly ventilated areas.

**General Hygiene**

Wash hands thoroughly with soap and water after use. Use good industrial hygiene practices.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical State	Liquefied Gas
Appearance	White Foam Spray
Color	White
Odor	Alcohol
Odor Threshold	N/D

<u>Property</u>	<u>Values</u>
pH	9.5
Melting Point/Freezing Point	< 32° F (0° C)
Initial Boiling Point And Boiling Range	< 212° F (100° C)
Flash Point	N/D
Evaporation Rate	< 0.8 (Slow)
Flammability(Solid/Gas)	Flammable Aerosol
Upper/Lower Flammability Or Explosive Limits	
Lower Flammability Limit	N/D
Upper Flammability Limit	N/D
Explosive Limit Lower(%)	N/D
Explosive Limit Upper(%)	N/D
Vapor Pressure (mm Hg)	N/D
Vapor Density (AIR=1)	N/D
Relative Density (H2O=1)	0.98 @ 77° F (25° C)
Solubility(ies)	100% water
Partition Coefficient	n-OCTANOL/WATER (Kow): N/D
Autoignition Temperature	N/D
Decomposition Temperature	N/D
Viscosity )	N/D

## 10. STABILITY AND REACTIVITY

### Reactivity

If exposed to strong oxidizers, presents explosion hazard.

### Chemical Stability

Stable

### Possibility Of Hazardous Reactions

None Known

### Conditions To Avoid

None Known

### Incompatible Materials

Strong inorganic and organic bases.

### Hazardous Decomposition Products

None Known

## 11. TOXICOLOGICAL INFORMATION

CHEMICAL NAME	ORAL LD50	Dermal LD50	INHALATION LC50
Isopropyl Alcohol (67-63-0)	Oral LD50 (Rat): 5045mg/kg	(Rabbit): 12870mg/kg	(Rat, 4h): 78.6 mg/L

### Information on likely routes of exposure Eyes, Ingestion, Inhalation, Skin

### Product Information

#### Inhalation

Acute exposure may cause nausea, vomiting, coughing and pulmonary irritation.

<b>Eye Contact</b>	May cause irritation, redness.
<b>Skin Contact</b>	May cause irritation, dryness, localized defatting.
<b>Ingestion</b>	Not a likely route of exposure under normal product handling conditions.

**Information on toxicological effects****Symptoms**

MEDICAL CONDITION AGGRAVATED: Pre-existing disorders of the skin, respiratory system, and eyes will be aggravated by over exposure.

ACUTE HEALTH HAZARDS: None Known

CHRONIC HEALTH HAZARDS: None known

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Carcinogenicity**                      **OSHA:** No            **ACGIH:** No            **NTP:** No            **IARC:** No            **OTHER:** N/A

*ACGIH (American Conference of Governmental Industrial Hygienists)*

*A3 - Animal Carcinogen*

*IARC (International Agency for Research on Cancer)*

*Group 2B - Possibly Carcinogenic to Humans*

*Group 3 -Not classifiable as a human carcinogen*

*NTP (National Toxicology Program)*

*Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen*

*OSHA (Occupational Safety and Health Administration of the US Department of Labor)*

*X - Present*

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

**Isopropyl Alcohol (67-63-0)** LC50 (Fathead Minnow, 96 hrs) 9640 mg/L

**Soil Mobility**

This product is mobile in soil.

**Persistence and Degradability**

Component or components of this product are not biodegradable.

**Bioaccumulation**

This product is not expected to bioaccumulate.

**Other Adverse Effects**

None Known

## 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods****Disposal of wastes**

Dispose of in accordance with federal, state, and local regulations.

**RCRA status**

Waste likely considered non-hazardous under RCRA, however, product should be fully characterized prior to disposal (40 CFR 261).

## 14. TRANSPORT INFORMATION

The basic description below is specific to the container size. This information is provided for at a glance DOT information. Please refer to the container and/or shipping papers for the appropriate shipping description before tendering this material for shipment. For additional information, please contact the distributor listed in section 1 of this SDS.

**AIR SHIPMENT**

<b>UN/ID No.</b>	UN 1950
<b>Proper Shipping Name</b>	Aerosols, Non-Flammable
<b>Hazard Class</b>	2.1

**DOT**

UN/ID No. UN 1950  
 Proper Shipping Name Aerosols, Ltd. Qty.  
 Hazard Class 2.1  
 Packing Group N/A

**SHIPPING BY WATER: VESSEL (IMO/IMDG)**

UN/ID No. UN 1950  
 Proper Shipping Name Aerosols  
 Hazard Class 2.21  
 Environmental Hazards Water N/A

**15. REGULATORY INFORMATION****International Inventories**

TSCA All Chemicals are listed or exempt.

**Legend:**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

**US Federal Regulations****SARA 313**

None

**SARA 311/312 Hazard Categories**

None

**CERCLA**

None

**US State Regulations**

California Proposition 65: None

**International Regulations**

All components are listed or exempted.

**Volatile Organic Compounds (VOC)**

10%

**16. OTHER INFORMATION**

<b>NFPA</b>	Health hazards	1	Flammability	1	Reactivity	1	Other	None
<b>HMIS</b>	Health hazards	1	Flammability	1	Reactivity	1	Personal protection	A

Issue Date 12/12/2012

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Revision Note

N/A = Not Applicable; N/D = Not Determined

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet