

Issue Date 02/13/2014

Revision Date 12/17/2019

Version 2

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier**Product Name** CITRUS SOLV+**Other means of identification****Product Code** 5052**Recommended use of the chemical and restrictions on use****Recommended use** Degreaser**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

Dissolved Gas

Flammable Aerosol	Category 1
Eye Irritant	Category 2A
Skin Irritant	Category 2
Skin Sensitization	Category 1B

Label elements

Emergency Overview

DANGER

Hazard statements

Extremely Flammable Aerosol. Contains gas under pressure: May explode if heated. Causes skin and serious eye irritation. May cause an allergic skin reaction.

**Appearance:** Clear, Colorless to Pale Yellow Spray**Odor:** Citrus

**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. Store in a well-ventilated place. Wash hands thoroughly after handling. Wear protective gloves and eye protection. Wash contaminated clothing before reuse. Contaminated work clothing must not be allowed out of the workplace.

Precautionary Statements - Response

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. Avoid breathing vapors/spray. If on skin: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

Precautionary Statements - Storage

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

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

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

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
1,8-p-Menthadiene	5989-27-5	70-90%	*
Carbon Dioxide	124-38-9	1-5%	*
Alcohols, C6-C12, ethoxylated propoxylated	68937-66-6	5-15%	*
Alcohols, C10-C16, ethoxylated propoxylated	69227-22-1	1-5%	*

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

4. FIRST AID MEASURES**First aid measures****Skin Contact**

If on skin: Wash with plenty of water. If skin irritation occurs: get medical attention.

Eye Contact

Remove contact lenses. Flush with water for at least 15 minutes. See a physician if irritation persists.

Inhalation

Move to fresh air. If breathing is difficult or unconscious, administer oxygen. If not breathing administer artificial respiration. Seek medical attention if irritation persists.

Ingestion

Rinse mouth with water. Do not induce vomiting unless directed by medical authority. Seek medical attention if irritation persists.

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

Eyes: redness, tearing, blurred vision
Skin: defatting and dermatitis

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

5. FIRE-FIGHTING MEASURES**Suitable extinguishing media**

Dry chemical, carbon dioxide, alcohol foam, and water spray or fog.

Unsuitable extinguishing media: N/A

Specific hazards arising from the chemical

Keep away from sparks, open flames, and hot surfaces. No smoking. Do not spray on an open flame or other ignition source.

Protective equipment and precautions for firefighters

Wear full protective clothing and NIOSH approved SCBA with full facepiece operated in positive pressure or pressure demand. Use water mist to keep material cool in fire situations.

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**

Floors will become slippery. Avoid walking in product. Ventilate area well. Keep unessential personnel away. Mop up or otherwise absorb and hold disposal. Avoid discharge to sewer or open waterways. Dispose in accordance with local, state and federal laws.

Waste disposal

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

RCRA status

Waste likely considered D001, 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**

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

Incompatible Materials

Strong acids, strong alkalis, strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

CHEMICAL NAME	ACGIH TLV	OSHA PEL
1,8-p-Menthadiene	Not Established	Not Established
Carbon Dioxide	5000 ppm	5000 ppm
Alcohols, C6-C12, ethoxylated propoxylated	Not Established	Not Established
Alcohols, C10-C16, ethoxylated propoxylated	Not Established	Not Established

Appropriate engineering controls

Engineering Controls

General ventilation adequate

Individual protection measures, such as personal protective equipment

Eye/face protection

Safety glasses chemical resistant gloves

Skin and body protection

Chemical resistant gloves

Respiratory protection

Wear NIOSH/MSHA approved respiratory protection if exposure limits are exceeded.

General Hygiene

Wash hands and clothing in contact with product after use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Spray
Appearance	Clear, Colorless to Pale Yellow Spray
Color	Clear, Colorless to Pale Yellow
Odor	Citrus
Odor Threshold	N/D

Property

Values

Remarks • Method

pH	N/A	
Melting Point/Freezing Point	N/D	
Initial Boiling Point and Boiling Range	N/D	
Flash Point	N/D	
Evaporation Rate	< 0.8 (Slow)	
Flammability(Solid/Gas)	Extremely Flammable Aerosol	
Upper/Lower Flammability or Explosive Limits:		
Lower Flammability Limit	N/A	
Upper Flammability Limit	N/A	
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)	0.87-0.91	
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**

None Known

Chemical Stability

Stable

Possibility Of Hazardous Reactions

None Known

Conditions To Avoid

Temperatures greater than 122°F and sources of ignition.

Incompatible Materials

Strong acids, strong alkalis, strong oxidizing agents.

Hazardous Decomposition Products

Oxides of carbon

11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: 1,8-p-Menthadiene (5989-27-5): LD50 (Oral, Rat) 4400 mg/kg (Mouse) 5600 mg/kg; LD50 (Dermal, Rabbit) 5000 mg/kg Alcohols, C6-C12, **ethoxylated propoxylated** (68937-66-6): LD50 (Oral, Rat) >5050 mg/kg; LD50 (Dermal, Rabbit) >2000 mg/kg Alcohols, C10-C16, **ethoxylated propoxylated** (69227-22-1): LD50 (Oral, Rat) >5000 mg/kg; LD50 (Dermal, Rabbit) >2000 mg/kg

Information on likely routes of exposure

Eyes, Ingestion, Inhalation, Skin

Product Information

Inhalation	No hazards with normal use. May cause irritation of the respiratory tract.
Eye Contact	Causes serious irritation.
Skin Contact	Repeated prolonged contact may cause allergic reaction in some individuals.
Ingestion	Causes gastrointestinal irritation.

Delayed and immediate effects as well as chronic effects from short and long-term exposure**Acute Health Hazards****Eyes:** redness, tearing, blurred vision **Skin:** defatting and dermatitis**Medical Condition Aggravated**

None known

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***Chronic Health Hazards**

None known

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Not Established

Persistence And Degradability

This product is biodegradable.

Bioaccumulation

This product is not expected to bioaccumulate.

Mobility In Soil

This product is mobile in soil.

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 D001, 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.

DOT

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

AIR SHIPMENT

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

SHIPPING BY WATER

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

Fire Hazard Yes

US State Regulations**California Proposition 65**

None

16. OTHER INFORMATION

NFPA	Health hazards	1	Flammability	2	Reactivity	0	Other	None
HMIS	Health hazards	1	Flammability	2	Reactivity	0	Personal protection	B

Issue Date 02/13/2014

Revision Date 12/17/2019

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