

1. PRODUCT AND COMPANY IDENTIFICATION**Product Identifier**

Product Name Exterminator Vanilla

Other means of identification

Product Code 5120

Recommended use of the chemical and restrictions on useRecommended use Insecticide
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**

GHS-US

Flammable aerosol	Category 1
Skin Sensitizer	Category 1
Aspiration hazard	Category 1

Label elements**Emergency Overview****DANGER****Hazard statements**

Extremely flammable aerosol. May be fatal if swallowed and enters airways. May cause an allergic skin reaction.

**Appearance:** Aerosol**Physical state:** Liquid**Odor:** Characteristic Vanilla**Precautionary Statements - Prevention**

Keep away from heat, sparks, open flames, 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. Avoid breathing gas. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves /face shield/ protective clothing.

Precautionary Statements - Response

If swallowed: Immediately call a doctor, a POISON CENTER. If on skin: Wash with plenty of water. Do NOT induce vomiting. If skin irritation or rash occurs: Get medical advice/attention.

Precautionary Statements - Storage

Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Precautionary Statements - Disposal

Dispose of contents/container to comply with local/regional/national/international regulations. Collect spillage.

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

- N/A

Unknown Acute Toxicity

N/A

3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NO.	WEIGHT - %		TRADE SECRET
hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics	64742-47-8	90 - 100	Flam. Liq. 4, H227 Asp. Tox. 1, H304	*
carbon dioxide, liquefied, under pressure	124-38-9	2.5 - 10	Not classified	*
permethrin (ISO), m-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate	52645-53-1	0.1 - 1	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Sens. 1, H317	*
PIPERONYL BUTOXIDE	51-03-6	0.1 - 1	Not classified	*
TETRAMETHRIN	7696-12-0	0.1 - 1	Not classified	*

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

4. FIRST AID MEASURES**First aid measures****General Advice**

Take off immediately all contaminated clothing. If you feel unwell, seek medical advice. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this sheet where possible. Keep victim warm and rested. Wash contaminated clothing before reuse.

Skin Contact

Remove/Take off immediately all contaminated clothing. Get immediate medical advice/attention. For minor skin contact, avoid spreading material on unaffected skin. Wash contaminated clothing before reuse.

Eye Contact

Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Artificial respiration and/or oxygen if necessary. Do not apply mouth-to-mouth resuscitation. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediately consult a doctor/medical service.

Ingestion

Never give anything by mouth to an unconscious person. Rinse mouth.

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

Symptoms/injuries after inhalation: Prolonged exposure: danger of damage to health through inhalation.
Symptoms/injuries after skin contact: Dermatitis. Skin rash/inflammation. May cause an allergic skin reaction.
Symptoms/injuries after eye contact: Direct contact with the eyes is likely irritating.
Symptoms/injuries after ingestion: Swallowing the liquid.

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

Treat symptomatically. Keep watching the victim. Symptoms may be delayed.

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

Powder. Alcohol-resistant foam. Water fog. Carbon dioxide.

Unsuitable extinguishing media: Do not use a water jet since it may cause the fire to spread.

Specific hazards arising from the chemical

Fire hazard: Extremely flammable aerosol.

Explosion hazard: Contains gas under pressure; may explode if heated.

Reactivity: The product is non-reactive under normal conditions of use, storage and transport.

Protective equipment and precautions for firefighters

In case of fire and/or explosion do not breathe fumes. Move containers away from the fire area if this can be done without risk. NEVER direct water jet on liquid. Use water spray or fog for cooling exposed containers. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. Some of these materials, if spilled, may evaporate leaving a

6. ACCIDENTAL RELEASE MEASURES**General measures**

Consider initial downwind evacuation for at least 500 meters (1/3 mile). Evacuate unnecessary personnel. Stay upwind/keep distance from source. Gas is denser than air. May accumulate in low areas e.g. close to the ground. Vapors are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapors.

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

Do not enter without an appropriate protective equipment. Do not breathe gas/vapor. DO NOT touch spilled material. Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire.

Emergency procedures

Ventilate the area thoroughly, especially low lying areas (basements, work pits etc.). Advice local authorities if considered necessary.

For emergency responder

No additional information available

Environmental precautions**Environmental precautions**

Avoid discharge to the environment. Do not contaminate water with the product or its container. Do not allow to enter drains or water courses.

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

Eliminate every possible source of ignition. NO open flames, NO sparks, and NO smoking. Keep combustibles (wood, paper, oil, etc.) away from spilled material.

Form with air vapors (heavier than air) who stay on the floor. Gas is denser than air. May accumulate in low areas e.g. close to the ground. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways. Stop leak if safe to do so. Stop the leak. Turn leaking containers leak-side up to prevent the escape of liquid. Move the cylinder to a safe and open area if the leak is irreparable. Use water spray to disperse the vapors. Isolate area until gas has dispersed.

Methods for cleaning up

Following product recovery, flush area with water. Clean thoroughly. Dispose as hazardous waste. Reference to other sections (13).

7. HANDLING AND STORAGE

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

Vapors may form explosive mixture with air. Exclude sources of heat, sparks and open flame. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any incandescent material. Do not smoke while handling product. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Use only explosion-free electrical equipment with earth. Do not re-use empty containers. Obtain special instructions before use. Reduce/avoid exposure and/or contact. Do not breathe gas/vapor/aerosol. Avoid contact with skin, eyes and clothing. Avoid prolonged and repeated contact with skin. Use only outdoors or in a well-ventilated area. Wear recommended personal protective equipment. Wash thoroughly after handling. Use good personal hygiene practices.

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

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C. Aerosol 3. Store in a cool area. Do not puncture, incinerate or crush. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Proper grounding procedures to avoid static electricity should be followed.

Incompatible Materials

Refer to Section 10 on Incompatible Materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

carbon dioxide, liquefied, under pressure (124-38-9)		
ACGIH	ACGIH TWA (ppm)	5000 ppm (Carbon dioxide; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
ACGIH	ACGIH STEL (ppm)	30000 ppm (Carbon dioxide; USA; Short time value; TLV - Adopted Value)

Appropriate engineering controls**Engineering Controls**

Provide sufficient air exchange and/or exhaust. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/face protection	Avoid contact with eyes. Face shield.
Skin and body protection	In case of repeated or prolonged contact wear gloves. Avoid contact with skin. Wear chemical protective equipment that is specifically recommended by the manufacturer. Use of an impervious apron is recommended. It may provide little or no thermal protection.
Respiratory protection	If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an airsupplied respirator.
General Hygiene	Use appropriate personal protective equipment when risk assessment indicates this is necessary. When using do not smoke. Avoid contact with eyes. Avoid contact with skin. Keep away from food and drink. Use good personal hygiene practices. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Contaminated work clothing should not be allowed out of the workplace. Take off contaminated clothing and wash before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid
Appearance	Aerosol.
Color	N/D
Odor	Characteristic Vanilla
Odor Threshold	N/D

Property

pH	N/D
Melting point	N/D
Freezing point	N/D
Boiling point	N/D
Flash point	201.2 °F estimated
Relative evaporation rate (butyl acetate=1)	N/D
Flammability (solid, gas)	N/D
Explosion limits	N/D
Explosive properties	N/D
Oxidizing properties	N/D
Vapor pressure	6.1 - 6.78 atm
Relative density	N/D
Relative vapor density at 20 °C	N/D
Specific gravity / density	0.897 g/ml estimated
Solubility	N/D
Log Pow	N/D
Log Kow	N/D
Auto-ignition temperature	200 °C estimated
Decomposition temperature	N/D
Viscosity	N/D
Viscosity, kinematic	< 20 cSt
Viscosity, dynamic	N/D

10. STABILITY AND REACTIVITY

Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

Chemical Stability

Risk of explosion. Risk of ignition. Unstable. The product is stable at normal handling- and storage conditions.

Possibility Of Hazardous Reactions

Hazardous polymerization does not occur.

Conditions To Avoid

Heat. Open flame. Sparks. Incompatible materials. Aerosol containers are unstable at temperatures above 49°C. Avoid temperatures exceeding the flash point.

Incompatible Materials

No additional information available

Hazardous Decomposition Products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION**Acute toxicity**

Not classified

EXTERMINATOR VANILLA

LD50 dermal rat	1974 mg/kg
LD50 dermal rabbit	1038.5883 mg/kg 24 hours estimated
LC50 inhalation rat (mg/l)	4.785 mg/l/4h estimated

hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics (64742-47-8)

LD50 dermal rabbit	> 5000 mg/kg body weight (Rabbit; Literature)
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permethrin (ISO), m-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate (52645-53-1)

ATE CLP (oral)	500.000 mg/kg body weight
ATE CLP (dust, mist)	1.500 mg/l/4h

Skin corrosion/irritation

Not classified

Serious eye damage/irritation

Not classified

Respiratory or skin sensitization

May cause an allergic skin reaction.

Germ cell mutagenicity

Not classified

Carcinogenicity

Not classified

permethrin (ISO), m-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate (52645-53-1)

IARC group	3 - Not Classifiable
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PIPERONYL BUTOXIDE (51-03-6)

IARC group	3 - Not classifiable
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Reproductive toxicity

Not classified

Specific target organ toxicity (single exposure)

May cause damage to organs.

Specific target organ toxicity (repeated exposure)

Not classified

Aspiration hazard

May be fatal if swallowed and enters airways.

Symptoms/injuries after inhalation

Prolonged exposure: danger of damage to health through inhalation.

Symptoms/injuries after skin contact

Dermatitis. Skin rash/inflammation. May cause an allergic skin reaction

Symptoms/injuries after eye contact

Direct contact with the eyes is likely irritating.

Symptoms/injuries after ingestion

Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis. Risk of lung edema.

12. ECOLOGICAL INFORMATION**Toxicity**

hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics (64742-47-8)	
LC50 - Fish 1	> 100 mg/l (Pisces)
EC50 Daphnia 1	> 100 mg/l (Invertebrata)
Threshold limit algae 1	> 100 mg/l (Algae)
carbon dioxide, liquefied, under pressure (124-38-9)	
LC50 - Fish 1	35 mg/l (LC50; 96 h; <i>Salmo gairdneri</i>)

Persistence and degradability

hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics (64742-47-8)	
Persistence and degradability	Readily biodegradable in water. Adsorbs into the soil.

carbon dioxide, liquefied, under pressure (124-38-9)	
Persistence and degradability	Biodegradability: not applicable. Not applicable (gas).
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable

Bioaccumulative potential

hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics (64742-47-8)	
Log Pow	6 - 8.2
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).
carbon dioxide, liquefied, under pressure (124-38-9)	
Log Pow	0.83 (Experimental value)
Bioaccumulative potential	Bioaccumulation: not applicable.

13. DISPOSAL CONSIDERATIONS**Waste treatment methods****Disposal of wastes**

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. . Contents under pressure. Do not puncture, incinerate or crush. This material and its container must be disposed of as hazardous waste. Incinerate the material under controlled conditions in an approved incinerator. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. . Do not allow into drains or water courses or dispose of where ground or surface waters may be affected. Dispose of contents/container to comply with local/regional/national/international regulations.

Additional information

Containers, or internal liners coming from a container, having contained this product are also considered as hazardous wastes. This material and its container must be disposed of in a safe manner. Empty containers should be taken for recycle, recovery or waste in accordance with local regulation. Handle unclean empty containers as full ones.

14. TRANSPORT INFORMATION**Department of Transportation (DOT)**

UN1950 Aerosols (flammable, (each not exceeding 1 L capacity)), 2.1

DOT

UN/ID No. UN1950

Proper Shipping Name Aerosols flammable, (each not exceeding 1 L capacity)8 - Class 8 - Corrosive material 49 CFR 2.1

Hazard Class Class 2.1 - Flammable gas 49 CFR 173.115

Hazard labels (DOT)

2.1 - Flammable gas

**Marine pollutant**

Yes (IMDG only)

**DOT Packaging Non Bulk (49 CFR 173.xxx)**

None

DOT Packaging Bulk (49 CFR 173.xxx)

None

DOT Special Provisions (49 CFR 172.102)

N82

DOT Packaging Exceptions (49 CFR 173.xxx)

306

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)

75 kg

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)

150 kg

DOT Vessel Stowage Location

A

DOT Vessel Stowage Other

25 - Shade from radiant heat, 87 - Stow "separated from" Class 1 (explosives) except Division 14,126 - Segregation same as for Class 9, miscellaneous hazardous materials.

Additional information

This product may be eligible to be shipped as a Limited Quantity or Consumer Commodity ORM-D utilizing the exception found at 49 CFR 173.306

ADR

No additional information available

Transport by sea**IMDG**

UN/ID No.	UN1950
Proper Shipping Name	Aerosols
Hazard Class	Class 2.1 - Flammable gases

Air transport**IATA**

UN/ID No.	UN1950
Proper Shipping Name	Aerosols
Hazard Class	2.1 - Gases : Flammable

15. REGULATORY INFORMATION**International Inventories**

TSCA All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

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

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

CHEMICAL NAME	CAS NO.	WEIGHT - %
permethrin (ISO), m-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2- dimethylcyclopropanecarboxylate	52645-53-1	0.1 - 1
PIPERONYL BUTOXIDE	51-03-6	0.1 - 1
TETRAMETHRIN	7696-12-0	0.1 - 1

permethrin (ISO), m-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2 dimethylcyclopropanecarboxylate

Listed on SARA Section 313 (Specific toxic chemical listings)

Potassium hydroxide (1310-58-3)

Listed on SARA Section 313 (Specific toxic chemical listings)

TETRAMETHRIN (7696-12-0)

Listed on SARA Section 313 (Specific toxic chemical listings)

US State Regulations**California Proposition 65**

This product does not contain substances known to the state of California to cause cancer and/or reproductive toxicity.

U.S. EPA Label Information

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labelling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

CAUTION: Causes moderate eye irritation. Avoid contact with eyes or clothing. Harmful if swallowed. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

EPA Pesticide Registration Number 10088-92-91641

16. OTHER INFORMATION

Training advice: Normal use of this product shall imply use in accordance with the instructions on the packaging.

NFPA	Health hazards	1	Flammability	2	Reactivity	0
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**Full text of H-phrases:**

Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Asp. Tox. 1	Aspiration hazard Category 1
Flam. Aerosol 1	Flammable aerosol Category 1
Flam. Liq. 4	Flammable liquids Category 4
Skin Sens. 1	Skin sensitization Category 1
H222	Extremely flammable aerosol
H227	Combustible liquid
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H317	May cause an allergic skin reaction
H332	Harmful if inhaled

Issue Date

12/21/2016

Revision Date

05/15/2015

Revision Note

Prepared by: Technical Department

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