

Safety Data Sheet (SDS)

1. IDENTIFICATION

Product Name(s): Back-Off Bear Deterrent, Bear Beware, Bear Beware Plus, STOP!! Bear Deterrent, Stay-Away Bear Deterrent
Product Use: Aerosol attack deterrent product – restricted product
Company Name: Parkland Aero-Fillers
Address: P.O. Box 3697
Spruce Grove, Alberta, Canada T7X 3A9
Fax Number: (780) 962-1024

24 Hour EMERGENCY Number: Call CANUTEC 1-613-996-6666

2. HAZARD IDENTIFICATION

Emergency Overview

Target Organs

Nerves, Heart-nerves, liver, heart

Other hazards which do not result in classification

Lachrymator, Sternutator

WHMIS Classification

A	Compressed Gas	Compressed Gas
B	Flammable liquid	Flammable liquid
D1A	Very Toxic Material Causing Immediate and Serious Toxic Effects	Highly Toxic
D2A	Very Toxic Material Causing Other Toxic Effects	Respiratory sensitiser
D2B	Toxic Material Causing Other Toxic Effects	Moderate skin irritant Moderate eye irritant Skin sensitiser

GHS Classification

Gases under pressure (Compressed gas)
Flammable liquids (Category 2)
Acute toxicity, Oral (Category 3)
Skin irritation (Category 2)
Eye irritation (Category 2A)
Respiratory sensitisation (Category 1)
Skin sensitisation (Category 1)
Specific target organ toxicity - single exposure (Category 3), Respiratory system

GHS Label elements, including precautionary statements



Pictogram

Signal word: Danger, Warning

Hazard statement(s):

- H225 Highly flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- H301 Toxic if swallowed.
- H315 + H320 Causes skin and eye irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.

Precautionary statement(s):

- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
- P280 Wear protective gloves.
- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician.
- P410 + P403 Protect from sunlight. Store in a well-ventilated place.

HMIS Classification

- Health hazard:** 2
- Flammability:** 3
- Physical hazards:** 1

Potential Health Effects

- Inhalation** May be harmful if inhaled. Causes respiratory tract irritation.
- Skin** May be harmful if absorbed through skin. Causes skin irritation.
- Eyes** Causes eye irritation.
- Ingestion** Toxic if swallowed.

3. COMPOSITION / INFORMATION ON INGREDIENTS

CAS-No.	EC-No.	Index-No.	Concentration
8-Methyl-N-vanillyl-trans-6-nonenamide (Capsaicin, Oleoresin Capsicum)			
404-86-4	206-969-8		<1%
Ethanol (Ethyl Alcohol)			

64-17-5	200-578-6	603-002-00-5	
1,1,1,2-Tetrafluoroethane (HFC-134a)			
811-97-2	212-377-0		

4. FIRST-AID MEASURES

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Conditions of flammability

Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.

Special protective equipment for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Hazardous combustion products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen fluoride

Explosion data - sensitivity to mechanical impact

No data available

Explosion data - sensitivity to static discharge

No data available

Further information

Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up

Contain spillage, pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Conditions for safe storage

Contents under pressure. Keep container tightly closed in a dry and well-ventilated place. Do not store containers in direct sunlight, in automobiles or areas which may exceed 50° C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Specific engineering controls

Use mechanical exhaust to avoid exposure.

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Eye protection

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	compressed gas, clear, red / brown liquid
Colour	reddish-brown
Odour	pungent
Odour Threshold	no data available
pH	no data available
Melting point/range:	no data available
Freezing point:	no data available
Boiling point/range:	no data available
Flash point:	no data available
Evaporation rate:	no data available
Flammability:	extremely flammable
Lower explosion limit:	no data available
Upper explosion limit:	no data available
Vapour pressure:	no data available
Vapour density:	no data available
Relative density:	1.01
Water solubility:	insoluble
Solubility in other solvents:	Benzene - soluble Ether - soluble Chloroform - soluble
Partition coefficient:	
n-octanol/water	no data available
Auto-ignition temperature	no data available
Decomposition temperature:	no data available
Viscosity:	no data available

10. STABILITY AND REACTIVITY**Reactivity**

no data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

no data available

Conditions to avoid

Heat, flames and sparks. Extremes of temperature and direct sunlight.

Incompatible materials

Strong oxidizing agents, alkali metals

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen fluoride, nitrogen oxides (NOx)

11. TOXICOLOGICAL INFORMATION**Acute toxicity****Oral LD50 – mixture**

LD50 Oral – mouse 825 mg/kg

Inhalation LC50 – mixture

LC50 Inhalation – rat 4h – 2400 mg/L

Dermal LD50 – mixture

LD50 Dermal - mouse - > 9300 mg/kg

Other information on acute toxicity

no data available

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

Eyes - guinea pig - Mild eye irritation

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

Reproductive toxicity

no data available

Teratogenicity

no data available

Specific target organ toxicity - single exposure (Globally Harmonized System)

no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

no data available

Aspiration hazard

no data available

Potential health effects

Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Ingestion	Toxic if swallowed.
Skin	May be harmful if absorbed through skin. Causes skin irritation.
Eyes	Causes eye irritation.

Signs and Symptoms of Exposure

burning sensation, cough, sneezing, wheezing, laryngitis, shortness of breath, headache, nausea, vomiting. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic effects

no data available

Additional Information

RTECS: RA8530000

12. ECOLOGICAL INFORMATION**Toxicity – HFC134a**

Toxicity to fish semi-static test LC50 - *Oncorhynchus mykiss* (rainbow trout) - 450 mg/l - 96 h, Method: Directive 67/548/EEC, Annex V, C.1.

Toxicity to daphnia and other aquatic invertebrates static test EC50 - *Daphnia magna* (Water flea) - 980 mg/l - 48 h, Method: Directive 67/548/EEC, Annex V, C.2.

Toxicity to bacteria
Growth inhibition EC50 - *Pseudomonas putida* - > 730 mg/l - 6 h

Persistence and degradability

Biodegradability aerobic
Result: 3 % - Not readily biodegradable.
Method: OECD Test Guideline 301D

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS**Proper disposal of containers**

Reduce pressure to zero and dispose of in municipal waste in accordance with Federal, State, Provincial or Local regulations or offer for recycling if appropriate for area.

Other precautions

Do not puncture or incinerate empty cans. The spray should not be used at close range directed toward sparks or flames.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN number: 1950 Class: 2.1

Reportable Quantity (RQ):

Marine pollutant: No

Poison Inhalation Hazard: No

IMDG

UN number: 1950 Class: 2.1 EMS-No: F-D, S-U

Marine pollutant: No

IATA

UN number: 1950 Class: 2.1

Precautions to be taken in storage and handling: Do not store containers in direct sunlight, in automobiles or areas which may exceed 50° C.

15. REGULATORY INFORMATION

WHMIS Classification

A	Compressed Gas	Compressed Gas
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This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

16. OTHER INFORMATION

THE INFORMATION CONTAINED HEREIN IS BELIEVED TO BE ACCURATE AND RELIABLE, HOWEVER, NO WARRANTY EITHER EXPRESSED OR IMPLIED IS MADE. CONDITIONS UNDER WHICH THIS INFORMATION MAY BE APPLIED ARE BEYOND OUR CONTROL AND WE CAN ASSUME NO LIABILITY FOR RESULTS OF ITS APPLICATION. THIS PRODUCT IS DESIGNED TO BE USED BY PERSONS HAVING SUFFICIENT SKILL TO MAKE INFORMED JUDGEMENTS REGARDING ITS APPLICATION.

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