

Material Safety Data Sheet: BOLT OFF PLUS AEROSOL

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1. PRODUCT AND COMPANY IDENTIFICATION

Product Name BOLT OFF PLUS AEROSOL
Recommended use Lubricant
Information on Manufacturer
CERTIFIED LABS, DIV. OF NCH CORP.
BOX 152170
IRVING, TEXAS 75015

Product Code 5622
Chemical nature Petroleum distillates and Solvent mixture
Emergency Telephone Number
CHEMTREC 1-800-424-9300

2. HAZARDS IDENTIFICATION**Emergency Overview**

DANGER

Harmful if inhaled

Causes skin irritation

May cause allergic skin reaction

Severe eye irritation

May be harmful if absorbed through skin

Harmful or fatal if swallowed

Contents under pressure

Color Yellow - Amber**Physical State** Aerosol**Odor** Ether-like**Potential Health Effects****Principle Route of Exposure****Primary Routes of Entry****Acute Effects****Eyes****Skin****Inhalation****Ingestion****Chronic Toxicity****Target Organ Effects****Aggravated Medical Conditions****Potential Environmental Effects**

Skin contact, Eye contact, Inhalation.

Inhalation, Skin Absorption.

Severe eye irritant. May cause irreversible eye damage.

Causes skin irritation. May be absorbed through the skin in harmful amounts. Also very toxic in contact with skin. May cause allergic skin reaction.

Harmful by inhalation. 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. Irregular cardiac activity. Inhalation of vapors in high concentration can cause narcotic effects and metabolic acidosis. May be fatal if inhaled in large quantities.

Harmful or fatal if swallowed. Causes headache, drowsiness or other effects to the central nervous system.

Aspiration hazard if swallowed - can enter lungs and cause damage.

May cause sensitization by skin contact. Risk of serious damage to the lungs (by inhalation). Liver injury may occur. Prolonged or repeated skin contact with liquid may cause defatting resulting in drying, redness and possible blistering. Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood.

Central nervous system, Cardiovascular system, Respiratory system, Liver, Lungs, Skin, Eyes, Blood, Heart, Kidney, Bone Marrow.

Neurological disorders, Respiratory disorders, Cardiovascular, Liver disorders, Skin disorders, Blood disorders, Kidney disorders, Heart disease.

See Section 12 for additional Ecological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No
Methylene chloride	75-09-2
Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable)	64742-52-5
Carbon Dioxide	124-38-9
Ethyl acetate	141-78-6
Sodium sulfonate	68608-26-4
Propylene oxide	75-56-9

4. FIRST AID MEASURES**General Advice****Eye Contact****Skin Contact****Inhalation****Ingestion****Notes to physician**

Avoid breathing vapors, mist, or gas. Avoid contact with skin, eyes and clothing.

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.

Wash off immediately with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash contaminated clothing before re-use.

Move to fresh air. In case of shortness of breath, give oxygen. If breathing has stopped, apply artificial respiration. Get medical attention immediately.

Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.

Aspiration hazard if swallowed - can enter lungs and cause damage. May cause cardiac arrhythmia. Acidosis.

5. FIRE-FIGHTING MEASURES**Flash Point**

> 201 °F / > 94 °C

Method

Seta closed cup

Autoignition Temperature No information available.

Flammability Limits in Air % Mixture.

Upper 23

Lower 0.8

Suitable Extinguishing Media

Water spray. Carbon dioxide (CO₂). Dry chemical. Foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards arising from the chemical

Solvent vapors are heavier than air and may spread along floors. Vapors may ignite and explode. Material can create slippery conditions. Flame extension: 0 inches / 0 cm and Burnback: 0 inches / 0 cm.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Aerosol Level (NFPA 30B) -

1

NFPA Health 2

Flammability 1

Instability 0

HMIS Health 2

Flammability 1

Instability 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Use personal protective equipment. Ensure adequate ventilation. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.

Environmental Precautions

Prevent product from contaminating soil or from entering sewage, drainage systems, and bodies of water. Do not flush into surface water or sanitary sewer system.

Methods for Containment

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).

Methods for Cleaning Up

Pick up and transfer to properly labeled containers.

Neutralizing Agent

Not applicable.

7. HANDLING AND STORAGE

Handling

Wear personal protective equipment. Ensure adequate ventilation. Avoid breathing vapors, mist or gas. Avoid contact with skin, eyes and clothing.

Storage

Keep container tightly closed in a dry and well-ventilated place.

Storage Temperature

Minimum 35 °F / 2 °C

Maximum 120 °F / 49 °C

Storage Conditions

Indoor X

Outdoor

Heated

Refrigerated

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH
Methylene chloride	TWA: 50 ppm	TWA: 25 ppm STEL: 125 ppm	IDLH: 2300 ppm
Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable)	TWA: 5 mg/m ³ ; STEL: 10 mg/m ³	TWA: 5 mg/m ³	IDLH: 2,500 mg/m ³ ; STEL 10 mg/m ³ ; TWA: 5 mg/m ³
Carbon Dioxide	TWA: 5000 ppm STEL: 30000 ppm	TWA: 5000 ppm TWA: 9000 mg/m ³	IDLH: 40000 ppm STEL 30000 ppm STEL 54000 mg/m ³ TWA: 5000 ppm TWA: 9000 mg/m ³
Ethyl acetate	TWA: 400 ppm	TWA: 400 ppm TWA: 1400 mg/m ³	IDLH: 2000 ppm TWA: 400 ppm TWA: 1400 mg/m ³
Sodium sulfonate	No data available	No data available	No data available
Propylene oxide	TWA: 2 ppm	TWA: 100 ppm TWA: 240 mg/m ³	IDLH: 400 ppm

Engineering Measures

Use with local exhaust ventilation. Ensure adequate ventilation, especially in confined areas.

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

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Aerosol	Viscosity	Non viscous
Color	Yellow - Amber	Odor	Ether-like
Appearance	Transparent	pH	Not applicable
Specific Gravity	0.88	Evaporation Rate	131.7 (Butyl acetate=1)
Percent Volatile (Volume)	91.6	VOC Content (%)	6.8
VOC Content (g/L)	59	Vapor Pressure	4925 mmHg @ 70°F
Vapor Density	1.6 (Air = 1.0)	Solubility	Negligible
Boiling Point/Range	107 °F / 42 °C		

10. STABILITY AND REACTIVITY

Chemical Stability

Stable. Hazardous polymerization does not occur.

Conditions to Avoid

Heat, flames, and sparks

Incompatible Products

Strong oxidizing agents, Strong acids, Strong bases, Amines.

Hazardous Decomposition ProductsCarbon oxides, Nitrogen oxides (NO_x), Chlorine gas, Hydrogen chloride gas, Aldehydes, Ketones.**Possibility of Hazardous Reactions**

None under normal processing

11. TOXICOLOGICAL INFORMATION**Product Information**

No information available.

Component Information**Acute Toxicity**

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Methylene chloride	> 2000 mg/kg (Rat)	no data available	= 76000 mg/m ³ (Rat) 4 h	no data available	no data available
Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable)	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 2.18 mg/L (Rat) 4 h	no data available	no data available
Carbon Dioxide	no data available	no data available	no data available	no data available	no data available
Ethyl acetate	= 5620 mg/kg (Rat)	> 18000 mg/kg (Rabbit) > 20 mL/kg (Rabbit)	no data available	no data available	no data available
Sodium sulfonate	no data available	no data available	no data available	no data available	no data available
Propylene oxide	= 520 mg/kg (Rat)	no data available	no data available	no data available	no data available

Chronic Toxicity

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Methylene chloride	no data available	no data available	no data available	no data available	skin, CVS, eyes, CNS (in animals: lung, liver, salivary and mammary gland tumors)
Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable)	no data available	no data available	no data available	no data available	respiratory system
Carbon Dioxide	no data available	no data available	no data available	no data available	respiratory system, CVS
Ethyl acetate	no data available	no data available	no data available	no data available	eyes, respiratory system, skin
Sodium sulfonate	no data available	no data available	no data available	no data available	no data available
Propylene oxide	no data available	skin sensitization	no data available	no data available	eyes, respiratory system, skin (in animals: nasal tumors), CNS, bone marrow

Carcinogenicity

Component	ACGIH	IARC	NTP	OSHA	Other
Methylene chloride	A3	Group 2B	Reasonably Anticipated	X	not applicable
Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable)	not applicable	not applicable	not applicable	not applicable	not applicable
Carbon Dioxide	not applicable	not applicable	not applicable	not applicable	not applicable
Ethyl acetate	not applicable	not applicable	not applicable	not applicable	not applicable
Sodium sulfonate	not applicable	not applicable	not applicable	not applicable	not applicable
Propylene oxide	A3	Group 2B	Reasonably Anticipated	X	not applicable

12. ECOLOGICAL INFORMATION**Product Information**

No information available.

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Methylene chloride	EC50 > 500 mg/L Pseudokirchneriella subcapitata 72 h EC50 > 500 mg/L Pseudokirchneriella subcapitata 96 h	LC50 140.8 - 277.8 mg/L Pimephales promelas 96 h LC50 262 - 855 mg/L Pimephales promelas 96 h LC50 = 193 mg/L Lepomis macrochirus 96 h	EC50 = 1 mg/L 24 h EC50 = 2.88 mg/L 15 min	EC50 1532 - 1847 mg/L 48 h EC50 = 190 mg/L 48 h	1.25
Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable)	no data available	LC50 > 5000 mg/L Oncorhynchus mykiss 96 h	no data available	EC50 > 1000 mg/L 48 h	N/A
Carbon Dioxide	no data available	no data available	no data available	no data available	N/A
Ethyl acetate	EC50 = 3300 mg/L Desmodesmus subspicatus 48 h	LC50 220 - 250 mg/L Pimephales promelas 96 h LC50 352 - 500 mg/L Oncorhynchus mykiss 96 h LC50 = 484 mg/L Oncorhynchus mykiss 96 h	EC50 = 1180 mg/L 5 min EC50 = 1500 mg/L 15 min EC50 = 5870 mg/L 15 min EC50 = 7400 mg/L 2 h	EC50 = 560 mg/L 48 h	0.6
Sodium sulfonate	no data available	no data available	no data available	no data available	N/A
Propylene oxide	EC50 = 240 mg/L Pseudokirchneriella subcapitata 96 h	LC50 = 215 mg/L Lepomis macrochirus 96 h	EC50 = 3300 mg/L 160 min	EC50 = 350 mg/L 48 h	0.08

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 Warning! Container under pressure. Do not puncture. Empty remaining contents. Empty containers should be taken for local recycling, recovery, or waste disposal. Do not re-use empty containers.

14. TRANSPORT INFORMATION

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

TDG
Proper shipping name Aerosols
Hazard Class 2.1
UN-No UN1950
Description AEROSOLS,2.1,UN1950 LTD QTY

ICAO
UN-No UN1950
Proper Shipping Name Aerosols
Hazard Class 2.1
Shipping Description UN1950, AEROSOLS, FLAMMABLE, 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
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 40n of the Code of Federal Regulations, Part 372

Component	CAS-No	Weight %	SARA 313 - Threshold Values
Methylene chloride	75-09-2	60-100	0.1
Propylene oxide	75-56-9	1-5	0.1

SARA 311/312 Hazardous Categorization

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

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Methylene chloride	1000 lb	Not applicable
Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable)	Not applicable	Not applicable
Carbon Dioxide	Not applicable	Not applicable
Ethyl acetate	5000 lb	Not applicable
Sodium sulfonate	Not applicable	Not applicable
Propylene oxide	100 lb	10000 lb TPQ 100 lb

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

A Compressed gases, D1B Toxic materials, D2A Very toxic materials, D2B Toxic materials.

**16. OTHER INFORMATION**

Prepared By	Dan Hollas
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Reason for Revision	No information available.
Glossary	No information available.
List of References.	No information available.

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