

# Material Safety Data Sheet: BOLT-OFF PLUS AEROSOL, MM

Supersedes Date 08/29/2011

Issuing Date 05/09/2014

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** BOLT-OFF PLUS AEROSOL, MM  
**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® 800-424-9300

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

DANGER

Harmful if inhaled

Causes skin irritation

May be harmful if absorbed through skin

Causes severe eye irritation

Harmful or fatal if swallowed

Contents under pressure

**Color** Yellow - Amber

**Physical State** Liquid

**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.

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. Contains a known or suspected carcinogen.

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

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

## 4. FIRST AID MEASURES

**General advice**

**Eye Contact**

**Skin Contact**

**Inhalation**

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.

**Ingestion**

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

**Notes to physician**

Aspiration hazard if swallowed - can enter lungs and cause damage. May be fatal if swallowed and enters airways. 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 (CO<sub>2</sub>). 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 inch / 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**

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	2300 ppm
Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable)	TWA: 5 mg/m <sup>3</sup> ; STEL: 10 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	No data available
Carbon dioxide	TWA: 5000 ppm STEL: 30000 ppm	TWA: 5000 ppm TWA: 9000 mg/m <sup>3</sup>	40000 ppm STEL 30000 ppm STEL 54000 mg/m <sup>3</sup> TWA: 5000 ppm TWA: 9000 mg/m <sup>3</sup>
Ethyl acetate	TWA: 400 ppm	TWA: 400 ppm TWA: 1400 mg/m <sup>3</sup>	2000 ppm TWA: 400 ppm TWA: 1400 mg/m <sup>3</sup>
Sodium sulfonate	No data available	No data available	No data available

**Engineering Measures**

Ensure adequate ventilation, especially in confined areas. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

**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

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

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable. Hazardous polymerization does not occur.
<b>Conditions to Avoid</b>	Heat, flames, and sparks
<b>Incompatible Products</b>	Strong oxidizing agents, Reducing agents, Strong acids, Strong bases, Amines.
<b>Hazardous Decomposition Products</b>	Carbon oxides, Nitrogen oxides (NOx), Sulfur oxides, Chlorine gas, Hydrogen chloride gas, Aldehydes, Ketones.
<b>Possibility of Hazardous Reactions</b>	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	= 1410 mg/kg ( Rat )	no data available	no data available	no data available	no data available
Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable)	> 5000 mg/kg ( Rat )	> 5000 mg/kg ( Rabbit )	no data available	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 )	> 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

**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	no data available
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

**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

## 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	LC50 140.8 - 277.8 mg/L Pimephales	EC50 = 1 mg/L 24 h	EC50 1532 - 1847 mg/L	1.25

	Pseudokirchneriella subcapitata 72 h EC50 > 500 mg/L Pseudokirchneriella subcapitata 96 h	promelas 96 h LC50 262 - 855 mg/L Pimephales promelas 96 h LC50 = 193 mg/L Lepomis macrochirus 96 h	EC50 = 2.88 mg/L 15 min	Daphnia magna 48 h EC50 190 mg/L Daphnia magna 48 h	
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 Daphnia magna 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 Daphnia magna 48 h	0.6
Sodium sulfonate	no data available	no data available	no data available	no data available	N/A

**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**  
**Hazard Class**  
**Description**

DOT  
Consumer commodity  
ORM-D  
Consumer commodity, ORM-D

**TDG**

**Proper shipping name**  
**Hazard Class**  
**UN-No**  
**Description**

Aerosols  
2.2  
UN1950  
UN1950, AEROSOLS, 2.2, LTD QTY

**ICAO**

**UN-No**  
**Proper Shipping Name**  
**Hazard Class**  
**Shipping Description**

UN1950  
Aerosols  
2.2  
UN1950, AEROSOLS, NON-FLAMMABLE, 2.2, LTD QTY

**IATA**

**UN-No**  
**Proper Shipping Name**  
**Hazard Class**  
**ERG Code**  
**Shipping Description**

UN1950  
Aerosols, flammable  
2.2  
10L  
UN1950, Aerosols, non-flammable, 2.2, LTD QTY

**IMDG/IMO**

**Proper Shipping Name**  
**Hazard Class**  
**UN-No**  
**EmS No.**  
**Shipping Description**

Aerosols  
2  
UN1950  
F-D, S-U  
UN1950, Aerosols, 2.2, 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 40 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

**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

**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 Sarah Williamson  
 Supersedes Date 08/29/2011  
 Issuing Date 05/09/2014  
 Reason for Revision No information available.  
 Glossary No information available.  
 List of References. No information available.

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