

MATERIAL SAFETY DATA SHEET

7862
MSDS REC'D by Trane May 23, 2012
CHM00988

1. Product and Company Identification

Product Name Cal-Blast™ (4132-20)

CAS # Mixture
Product use Cleaner
Manufacturer Nu-Calgon
2008 Altom Court

St. Louis, MO 63146 US

Phone: 314-469-7000 / 800-554-5499

Emergency Phone: 1-800-424-9300 (CHEMTREC)

2. Hazards Identification

Emergency overview DANGER

HARMFUL IF INHALED.

Contents under pressure. Containers may explode when heated. Toxic. CONTAINS MATERIAL WHICH MAY CAUSE CANCER.

MAY CAUSE ALLERGIC SKIN REACTION. Contains a potential mutagen.

CAUSES SKIN IRRITATION. CAUSES EYE IRRITATION.

CAUSES RESPIRATORY TRACT IRRITATION.

Potential short term health effects

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

Eyes May cause irritation.

Skin Contact with skin can cause irritation and allergic reaction (sensitization) in some

individuals.

Inhalation This product may be fatal if it is inhaled.

Excessive intentional inhalation may cause respiratory tract irritation and central nervous

system effects (headache, dizziness).

Ingestion May cause stomach distress, nausea or vomiting.

Target organs Eyes. Liver. Lungs. Skin. Heart. Central nervous system.

Chronic effects Prolonged or repeated exposure can cause drying, defatting and dermatitis.

Signs and symptoms Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Symptoms are prostration, gasping, pallor, and uncoordinated movements. Symptoms of

overexposure may be headache, dizziness, tiredness, nausea and vomiting.

OSHA Regulatory Status This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

environmental concerns.

3. Composition / Information on Ingredients

Ingredient(s)	CAS#	Percent
Methylene chloride	75-09-2	60 - 100
D-Limonene	5989-27-5	1 - 5

4. First Aid Measures

First aid procedures

Eye contact Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact

lenses, if present, after the first 5 minutes, then continue rinsing. Obtain medical attention

immediately.

Skin contact Immediately flush with water. Wash with soap and water. Obtain medical attention if

irritation persists.

Inhalation If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical

attention. If breathing has stopped, trained personnel should administer CPR

mmediately.

Ingestion Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce

risk of aspiration. Never give anything by mouth if victim is unconscious, or is convulsing.

Obtain medical attention.

Notes to physician General advice

Symptoms may be delayed.

Do not puncture or incinerate container. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children. Immediate medical attention is required.

5. Fire Fighting Measures

Not flammable by WHMIS/OSHA criteria. Flammable properties

Aerosol flame extension: None

Containers may explode when heated.

Extinguishing media

Suitable extinguishing media Carbon dioxide. Dry chemical. Foam. Water.

Unsuitable extinguishing media

Not available

Protection of firefighters

Specific hazards arising from

the chemical

flame. Cool containers with flooding quantities of water until well after fire is out. Firefighters should wear full protective clothing including self contained breathing

Contents under pressure. Pressurized container may explode when exposed to heat or

Protective equipment for firefighters

apparatus.

Hazardous combustion products

Explosion data

May include and are not limited to: Oxides of carbon. Chlorine gas. Phosgene.

Sensitivity to mechanical impact Not available Sensitivity to static discharge Not available

6. Accidental Release Measures

Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not Personal precautions

touch damaged containers or spilled material unless wearing appropriate protective

clothing. Keep people away from and upwind of spill/leak.

Environmental precautions Methods for containment

Prevent further leakage or spillage if safe to do so. Do not contaminate water.

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area).

Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements

or confined areas.

Before attempting clean up, refer to hazard data given above. Remove sources of Methods for cleaning up

ignition. Although the chance of a significant spill or leak is unlikely in aerosol containers, in the event of such an occurrence, absorb spilled material with a

non-flammable absorbent such as sand or vermiculite.

7. Handling and Storage

Use good industrial hygiene practices in handling this material. Handling

Use only with adequate ventilation.

Avoid breathing vapors or mists of this product.

Do not get this material in your eyes, on your skin, or on your clothing.

Avoid prolonged or repeated skin contact with this material.

Wash thoroughly after handling. When using do not eat or drink. Keep container tightly closed.

Keep out of reach of children. Do not store at temperatures above 49 °C (120.2°F). Storage

Keep away from heat, open flames or other sources of ignition.

8. Exposure Controls / Personal Protection

Exposure limits		
Ingredient(s)	Exposure Limits	
D-Limonene	ACGIH-TLV	
	Not established	
	OSHA-PEL	
	Not established	
Methylene chloride	ACGIH-TLV	
	TWA: 50 ppm	
	OSHA-PEL	
	TWA: 25 ppm	
	STEL: 125 ppm	
Engineering controls	General ventilation normally adequate. Provide adequate ventilation.	
Developed protective equipme	m4	

Personal protective equipment

Eye / face protection Wear safety glasses with side shields.

Rubber gloves. Confirm with a reputable supplier first. Hand protection

Skin and body protection As required by employer code.

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respiratory protection

Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134), CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2).

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands and face before breaks and immediately after handling the

9. Physical and Chemical Properties

Appearance Colorless Color Aerosol. **Form** Solvent Odor Not available Odor threshold Gas

Physical state

Not available pН Not available **Melting point** Not available Freezing point Not available **Boiling point** Not available Pour point > 1 (BuAc=1) **Evaporation rate** Flash point Not available 1032.80 °F (556 °C) Auto-ignition temperature

Flammability limits in air, lower, %

by volume

Flammability limits in air, upper, %

by volume

19

Not available Vapor pressure

> 1 Vapor density

1.29 - 1.33 Specific gravity Not available Octanol/water coefficient

100 Percent volatile

10. Stability and Reactivity

Reactivity Reacts vigorously with alkaline material or metals. Possibility of hazardous reactions Hazardous polymerization does not occur.

Chemical stability Stable under recommended storage conditions.

Conditions to avoid Aerosol containers are unstable at temperatures above 49°C (120.2°F). Do not mix with

other chemicals.

Incompatible materials Caustics. Acids. Oxidizers.

Hazardous decomposition products May include and are not limited to: Oxides of carbon. Chlorine gas. Phosgene.

11. Toxicological Information

Component analysis - LC50

Ingredient(s) LC50

D-Limonene Not available

Methylene chloride 14250 mg/m3 rat

Component analysis - Oral LD50

Ingredient(s) LD50

D-Limonene 4400 mg/kg rat; 5600 mg/kg mouse

Effects of acute exposure

Methylene chloride

Eye May cause irritation.

Skin Contact with skin can cause irritation and allergic reaction (sensitization) in some

1410 mg/kg rat

individuals.

Inhalation This product may be fatal if it is inhaled.

Excessive intentional inhalation may cause respiratory tract irritation and central nervous

system effects (headache, dizziness).

Ingestion May cause stomach distress, nausea or vomiting.

Sensitization Non-hazardous by WHMIS/OSHA criteria. Contains a potential skin sensitizer.

Chronic effects Non-hazardous by WHMIS/OSHA criteria.

Carcinogenicity Hazardous by WHMIS/OSHA criteria. Contains a potential carcinogen.

ACGIH - Threshold Limit Values - Carcinogens

Methylene chloride 75-09-2 A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

IARC - Group 2B (Possibly Carcinogenic to Humans)

Methylene chloride 75-09-2 Monograph 71 [1999]; Supplement 7 [1987]

IARC - Group 3 (Not Classifiable)

D-Limonene 5989-27-5 Monograph 73 [1999] (overall evaluation downgraded from 2B to 3 with supporting

evidence from other relevant data)

NTP (National Toxicology Program) - Report on Carcinogens - Reasonably Anticipated to be Human Carcinogens

Methylene chloride 75-09-2 Reasonably Anticipated To Be A Human Carcinogen

U.S. - California - Proposition 65 - Carcinogens List

Methylene chloride 75-09-2 carcinogen, initial date 4/1/88

Mutagenicity Methylene chloride is considered mutagenic based on positive results obtained in mice

exposed by inhalation.

Reproductive effectsNon-hazardous by WHMIS/OSHA criteria. **Teratogenicity**Non-hazardous by WHMIS/OSHA criteria.

Name of Toxicologically Synergistic Not available

Products

12. Ecological Information

Ecotoxicity See below

Ecotoxicity - Freshwater Algae - Acute Toxicity Data

Methylene chloride 75-09-2 96 Hr EC50 Pseudokirchneriella subcapitata: >500 mg/L; 72 Hr EC50

Pseudokirchneriella subcapitata: >500 mg/L

Ecotoxicity - Freshwater Fish - Acute Toxicity Data

D-Limonene 5989-27-5 96 Hr LC50 Pimephales promelas: 0.619-0.796 mg/L [flow-through]; 96 Hr LC50

Oncorhynchus mykiss: 35 mg/L

Methylene chloride 75-09-2 96 Hr LC50 Pimephales promelas: 140.8-277.8 mg/L [flow-through]; 96 Hr LC50

Pimephales promelas: 262-855 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 193

mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 193 mg/L [flow-through]

Ecotoxicity - Water Flea - Acute Toxicity Data

Methylene chloride 75-09-2 48 Hr EC50 Daphnia magna: 1532 - 1847 mg/L [Static]; 48 Hr EC50 Daphnia magna:

190 mg/L

Persistence / degradability Not available

Bioaccumulation / accumulation Not available Mobility in environmental media Not available **Environmental effects** Not available Not available **Aquatic toxicity** Not available **Partition coefficient** Not available Chemical fate information Not available Other adverse effects

13. Disposal Considerations

Disposal instructions

Dispose in accordance with all applicable regulations.

Waste from residues / unused

products

Not available

Contaminated packaging Not available

14. Transport Information

U.S. Department of Transportation (DOT)

Consumer Commodity ORM-D

Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

Proper shipping name AEROSOLS, non-flammable, containing substances in

Class 6.1, packing group III

Hazard class 2.2 **UN** number 1950

Additional information:

Special provisions 80

Packaging exceptions <1L - Consumer Commodity



15. Regulatory Information

This product has been classified in accordance with the hazard criteria of the Controlled Canadian federal regulations

Products Regulations and the MSDS contains all the information required by the

Controlled Products Regulations.

Canada - CEPA - Schedule I - List of Toxic Substances

Methylene chloride 75-09-2 Present

Canada - WHMIS - Ingredient Disclosure List

D-Limonene 5989-27-5 1 % Methylene chloride 75-09-2 0.1 %

WHMIS status Controlled

WHMIS classification Class A - Compressed Gas, Class D - Division 1B, 2A, 2B





Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous

Yes

chemical

US Federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

Methylene chloride 75-09-2 1000 Lb final RQ; 454 kg final RQ

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

Methylene chloride 75-09-2 0.1 % de minimis concentration

U.S. - CWA (Clean Water Act) - Priority Pollutants

Methylene chloride 75-09-2 Present

U.S. - CWA (Clean Water Act) - Toxic Pollutants

Methylene chloride 75-09-2 Present (listed under Halomethanes)

CERCLA (Superfund) reportable quantity

Methylene chloride: 1000.0000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - Yes Reactivity Hazard - No

Section 302 extremely No

hazardous substance

Section 311 hazardous chemical Yes

Clean Air Act (CAA) Not available
Clean Water Act (CWA) Not available

State regulations WARNING: This product contains a chemical known to the State of California to cause

cancer.

U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances

Methylene chloride 75-09-2 Present

U.S. - California - Proposition 65 - Carcinogens List

Methylene chloride 75-09-2 carcinogen, initial date 4/1/88

U.S. - Illinois - Toxic Air Contaminant Carcinogens

Methylene chloride 75-09-2 NTP Suspect Carcinogen; ACGIH A2 Carcinogen; IARC Group 2B Carcinogen

U.S. - Illinois - Toxic Air Contaminants

Methylene chloride 75-09-2 Present U.S. - Louisiana - Reportable Quantity List for Pollutants

Methylene chloride 75-09-2 1000 Lb final RQ; 454 kg final RQ

U.S. - Massachusetts - Right To Know List

Methylene chloride 75-09-2 Carcinogen; Extraordinarily hazardous

U.S. - Michigan - Critical Materials List

Methylene chloride 75-09-2 10 Lb Annual usage threshold

U.S. - Minnesota - Hazardous Substance List

Methylene chloride 75-09-2 Carcinogen U.S. - New Jersey - Right to Know Hazardous Substance List Methylene chloride 75-09-2 sn 1255

U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances

Methylene chloride 75-09-2 1000 Lb RQ (air); 1 lb RQ (land/water)

U.S. - North Carolina - Control of Toxic Air Pollutants

Methylene chloride 75-09-2 0.024 mg/m3 (carcinogens); 1.7 mg/m3 (acute systemic toxicants)

U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances

Methylene chloride 75-09-2 Present

U.S. - Pennsylvania - RTK (Right to Know) List

Methylene chloride 75-09-2 Environmental hazard; Special hazardous substance

U.S. - Rhode Island - Hazardous Substance List

Methylene chloride 75-09-2 Toxic; Flammable

Inventory name

Country(s) or region Inventory name On inventory (yes/no)*

Canada Domestic Substances List (DSL) Non-Domestic Substances List (NDSL) Canada No United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0





Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the

use of or reliance on any information contained in this document.

Issue date 13-Jun-2011 01-Jun-2011 **Effective date Expiry date** 01-Jun-2014

Nu-Calgon Technical Service (314) 469-7000 Prepared by

For an updated MSDS, please contact the supplier/manufacturer listed on the first Other information

page of the document.