

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 effect	ts			
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 nervo 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. Symptom overexposure may be headache, dizziness, tiredness, nausea and vomiting.			
OSHA Regulatory Status	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communicati Standard, 29 CFR 1910.1200.			
Potential environmental effects	Components of this product have been identified as having potential 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 immediately.
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.

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

Flammable properties	Not flammable by WHMIS/OSHA criteria. 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	n Contents under pressure. Pressurized container may explode when exposed to heat or flame. Cool containers with flooding quantities of water until well after fire is out.	
Protective equipment for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus.	
Hazardous combustion products	May include and are not limited to: Oxides of carbon. Chlorine gas. Phosgene.	
Explosion data		
Sensitivity to mechanical impact	Not available	
Sensitivity to static discharge	Not available	
6. Accidental Release Measures		

Personal precautions	Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.	
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not contaminate water.	
Methods for containment	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.	
Methods for cleaning up	Before attempting clean up, refer to hazard data given above. Remove sources of 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

Handling	Use good industrial hygiene practices in handling this material. 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.
Storage	Keep out of reach of children. Do not store at temperatures above 49 °C (120.2°F). 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.	
Personal protective equipment		
Eye / face protection	Wear safety glasses with side shields.	
Hand protection	Rubber gloves. Confirm with a reputable supplier first.	
Skin and body protection	As required by employer code.	
Respiratory protection	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. 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 product.	

## 9. Physical and Chemical Properties

Appearance	Clear.
Color	Colorless
Form	Aerosol.
Odor	Solvent
Odor threshold	Not available
Physical state	Gas
рН	Not available
Melting point	Not available
Freezing point	Not available
Boiling point	Not available
Pour point	Not available
Evaporation rate	> 1 (BuAc=1)
Flash point	Not available
Auto-ignition temperature	1032.80 °F (556 °C)
Flammability limits in air, lower, % by volume	12
Flammability limits in air, upper, % by volume	19
Vapor pressure	Not available
Vapor density	>1
Specific gravity	1.29 - 1.33
Octanol/water coefficient	Not available
Percent volatile	100

# 10. Stability and Reactivity

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

Chemical stabilityStable under recommended storage conditions.Conditions to avoidAerosol containers are unstable at temperatures above 49°C (120.2°F). Do not mix with<br/>other chemicals.Incompatible materialsCaustics. Acids. Oxidizers.Hazardous decomposition productsMay include and are not limited to: Oxides of carbon. Chlorine gas. Phosgene.

#### **11. Toxicological Information**

Component analysis - LC50	D			
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		
Methylene chloride		1410 mg/kg rat		
Effects of acute exposure				
Eye	May cau	se irritation.		
Skin		Contact with skin can cause irritation and allergic reaction (sensitization) in some individuals.		
Inhalation	Excessiv	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 cau	se stomach distress, nausea or vomiting.		
Sensitization	Non-haz	ardous by WHMIS/OSHA criteria. Contains a potential skin sensitizer.		
Chronic effects	Non-haz	ardous by WHMIS/OSHA criteria.		
Carcinogenicity	Hazardo	Hazardous by WHMIS/OSHA criteria. Contains a potential carcinogen.		
ACGIH - Threshold Limit	Values - Carcinogens			
Methylene chloride IARC - Group 2B (Possibl	75-09-2 y Carcinogenic to Hui	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans mans)		
Methylene chloride IARC - Group 3 (Not Class	75-09-2 sifiable)	Monograph 71 [1999]; Supplement 7 [1987]		
D-Limonene	5989-27-5	Monograph 73 [1999] (overall evaluation downgraded from 2B to 3 with supporting evidence from other relevant data)		
	Program) - Report on	n Carcinogens - Reasonably Anticipated to be Human Carcinogens		
Methylene chloride U.S California - Proposi	75-09-2 tion 65 - Carcinogens	Reasonably Anticipated To Be A Human Carcinogen		
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 effects	Non-haz	Non-hazardous by WHMIS/OSHA criteria.		
Teratogenicity	Non-haz	ardous by WHMIS/OSHA criteria.		
Name of Toxicologically Sy Products	<b>/nergistic</b> Not avail	lable		

### **12. Ecological Information**

Ecotoxicity	See below	
Ecotoxicity - Freshwater Alg	ae - Acute Toxicity Dat	a
Methylene chloride	75-09-2	96 Hr EC50 Pseudokirchneriella subcapitata: >500 mg/L; 72 Hr EC50 Pseudokirchneriella subcapitata: >500 mg/L
Ecotoxicity - Freshwater Fisl	h - 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 - Ac	ute 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	9

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

#### **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

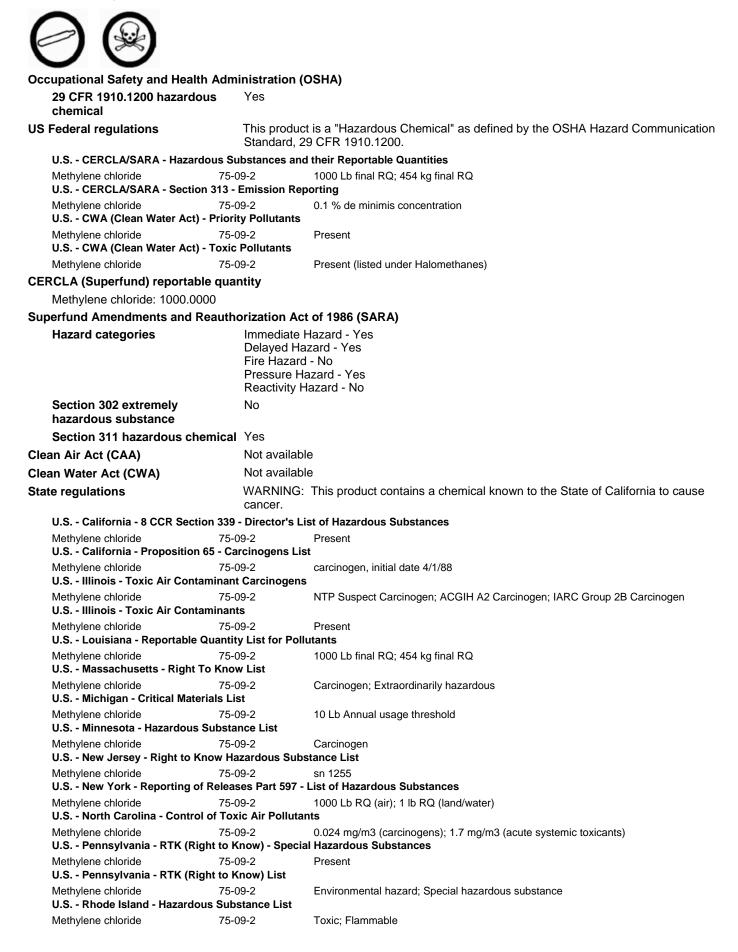
#### Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements	5:	
Proper shipping name	AEROSOLS, non-flammable, containing substances Class 6.1, packing group III	s in
Hazard class	2.2	
UN number	1950	
Additional information:		
Special provisions	80	
Packaging exceptions	<1L - Consumer Commodity	

# **15. Regulatory Information**

Canadian federal regulation	Products	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.	
Canada - CEPA - Schedule	I - List of Toxic Sub	stances	
Methylene chloride Canada - WHMIS - Ingredie	75-09-2 ent Disclosure List	Present	
D-Limonene Methylene chloride	5989-27-5 75-09-2	1 % 0.1 %	
WHMIS status	Controlle	bd	
WHMIS classification	Class A	Class A - Compressed Gas, Class D - Division 1B, 2A, 2B	

2



Inventory name Country(s) or region Canada Canada United States & Puerto Rico A "Yes" indicates that all compone

#### Inventory name

Yes No

Yes

Non-Domestic Substances List (NDSL)

Domestic Substances List (DSL)

Toxic Substances Control Act (TSCA) Inventory

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

### 16. Other Information

