

1. Product and Company Identification

Product Name: Chem-Cement
Product use class: Adhesive.
Effective Date: 09-12-2022.
Company Information: CHEM TRUST Solutions
Manufactured in: South Africa, Gauteng, Boksburg
Postal Address: 39 Kelly Road, The Palisades
 Unit A7
 Jet park, Boksburg
Telephone No: +27 82 326 8277 or +27 82 262 4267
Email: info@chemtrust-solutions.com

2. Composition/Information on Ingredients

| Ingredient/Chemical | CAS # | Content |
|--------------------------|----------|---------|
| Methylene Chloride | 75-09-2 | < 65% |
| Chloroprene | 126-99-8 | < 12% |
| Toluene | 108-88-3 | < 5% |
| Nonhazardous Ingredients | N.A | Trace |

3. Potential Health Effects

3.1 **GHS label elements:**
Symbol(s)



GHS07



GHS08



GHS09

3.2 **Signal Word:**
Danger.

3.3 **Hazard Statements**

Causes skin irritation
 Causes serious eye irritation
 May cause drowsiness or dizziness
 May cause cancer
 May cause damage to organs through prolonged or repeated exposure

3.4 **Potential Health Effects**

Inhalation - Causes irritation to respiratory tract. Has a strong narcotic effect with symptoms of mental confusion, light-headedness, fatigue, nausea, vomiting and headache. Causes formation of carbon monoxide in blood which affects cardiovascular system and central nervous system. Continued exposure may cause increased light-headedness, staggering, unconsciousness, and even death. Exposure may make the symptoms of angina (chest pains) worse.

Ingestion - May cause irritation of the gastrointestinal tract with vomiting. If vomiting results in aspiration, chemical pneumonia could follow. Absorption through gastrointestinal tract may produce symptoms of central nervous system depression ranging from light headedness to unconsciousness.

Skin Contact - Causes irritation, redness and pain. Prolonged contact can cause burns. Liquid degreases the skin. May be absorbed through skin.

Eye Contact - Vapours can cause eye irritation. Contact can produce pain, inflammation and temporal eye damage.

3.5 **Chronic Exposure**

Can cause headache, mental confusion, depression, liver effects, kidney effects, bronchitis, loss of appetite, nausea, lack of balance, and visual disturbances. Can cause dermatitis upon prolonged skin contact. Methylene chloride may cause cancer in humans.

3.6 **Aggravation of Pre-existing Conditions**

Persons with pre-existing skin disorders, eye problems, impaired liver, kidney, respiratory or cardiovascular function may be more susceptible to the effects of this substance.

4. First Aid Measures

- 4.1 Inhalation**
Remove to fresh air. If breathing has stopped, administer artificial respiration. Call a physician.
- 4.2 Skin**
Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
- 4.3 Eyes**
Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.
- 4.4 Ingestion**
If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

5. Fire Fighting Measures

- 5.1 General**
Chem-Cement is non-flammable.
- 5.2 Extinguishing media**
Water fog, dry chemical, foam, carbon dioxide.
Flash point: flash point text: none
Auto ignition temperature: auto ignition temperature text: n/k
Lower limit(s): 12% upper limit(s): 19%

6. Accidental release measures & Spill release procedures

- 6.1 General**
Evacuate the area. Ventilate, and avoid breathing vapours. Dike area to contain spill. Clean up area (wear protective clothing) by mopping or with absorbent material & place in closed container for disposal. Do not flush to sewer. Avoid ground water.
- 6.2 Respiratory Protection**
Where vapour concentrations exceed 50 ppm, an approved respirator with organic vapour canister is acceptable. An approved self-contained breathing apparatus or air line respirator with full apacepiece, is required for concentrations >1000ppm.
- 6.3 Ventilation**
Do not use in closed or confined space. Open doors &/or windows. Use ventilation to maintain levels below 50 ppm.
- 6.4 Protective Gloves**
Solvent resist; viton, polyvinyl alcohol.
- 6.5 Eye Protection**
Safety glasses, chemical goggles/shield.
- 6.6 Other Protective Equipment**
Protective clothing, eye wash station & safety shower. To determine exposure levels, monitoring should be performed.
- 6.7 Work Hygienic Practices**
Do not eat, drink or smoke in work area. Wash hands prior to eating, drinking or using restrooms. Launder soil clothes.

6.8 Supplemental Health & Safety Information

Note: protective equipment and clothing should be selected, used and maintained according to applicable standards and regulations. For further information contact the clothing or equipment manufacturer.

7. Handling and Storage

7.1 Handling and Storage Precautions

Avoid high temperatures. Keep material dry and away from moisture. Released material will evaporate.

Other Precautions: N/A

8. Exposure controls/personal protection

8.1 Respiratory Protection

Where vapour concentrations exceed 50 ppm, an approved respirator with organic vapour canister is acceptable. An approved self-contained breathing apparatus or air line respirator with full face piece, is required for concentrations >1000ppm.

8.2 Ventilation

Do not use in closed or confined space. Open doors &/or windows. Use ventilation to maintain levels below 50 ppm.

8.3 Protective Gloves

SOLVENT RESIST; VITON, POLYVINYL ALCOHOL.

8.4 Eye Protection:

SAFETY GLASSES, CHEMICAL GOGGLES/SHIELD.

8.5 Other Protective Equipment

Protective clothing, eye wash station & safety shower. To determine exposure levels, monitoring should be performed.

8.6 Work Hygienic Practices

Do not eat, drink or smoke in work area. Wash hands prior to eating, drinking or using restrooms. Launder soil clothes.

8.2 Supplemental Health & Safety Information

Note: protective equipment and clothing should be selected, used and maintained according to applicable standards and regulations.

9. Physical and chemical properties

| | | |
|------------------------|---|-----------------------|
| Physical State | - | Liquid |
| Appearance/Colour | - | Black |
| Odour | - | Chloroform-like odour |
| Solvent content | - | <90% |
| Hardener | - | Yellow |
| Consistency | - | Brush able liquid |
| Diluents | - | Methylene Chloride |
| Specific Gravity | - | 1.27 |
| pH | - | No information found |
| Flash point | - | Non-flammable (0°C) |
| Boiling Point | - | 87.1C (189F) |
| Melting Point | - | -73C (-99F) |
| Vapour Density (Air=1) | - | 4.54 |

10. Stability and Reactivity

10.1 Stability

Stable under ordinary conditions of use and storage. Will slowly decompose to hydrochloric acid when exposed to light and moisture.

10.2 Hazardous Decomposition Products

May produce carbon monoxide, carbon dioxide, hydrogen chloride and phosgene when heated to decomposition.

10.3 Hazardous Polymerization:

Will not occur.

10.4 Incompatibilities

Strong caustics and alkalis, strong oxidizers, chemically active metals, such as barium, lithium, sodium, magnesium, titanium and beryllium, liquid oxygen.

10.5 Conditions to Avoid:

Heat, flame, ignition sources, light, moisture, incompatibles

11. Toxicological information

11.1 Acute Toxicity

11.2 Product Information

Component Information

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|--------------------|----------------------|----------------------|--|
| Methylene chloride | > 2000 mg/kg (Rat) | > 2000 mg/kg (Rat) | 53 mg/L (Rat) 6 h 76000 mg/m ³ (Rat) 4 h |
| Toluene | 636 mg/kg (Rat) | > 12124 mg/kg (Rat) | 12,5 mg/L (Rat) 4 h 26700 ppm (Rat) 1 h |

Toxicologically Synergistic No information available

Products

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation

Irritating to eyes and skin

Sensitization

No information available

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Component | CAS-No | IARC | NTP | ACGIH | OSHA |
|--------------------|----------|----------|------------------------|------------|--------------------------------|
| Methylene chloride | 75-09-2 | Group 2A | Reasonably Anticipated | A3 | X |
| Toluene | 108-88-3 | Group 3 | </= 0,1% is carcinogen | 20 ppm TWA | 200 ppm TWA 300 ppm Ceiling |

IARC: (International Agency for Research on Cancer) IARC: (International Agency for Research on Cancer) Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

NTP: (National Toxicity Program)

Known - Known Carcinogen

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

A1 - Known Human Carcinogen

A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

ACGIH: (American Conference of Governmental Industrial Hygienists)

ACGIH: (American Conference of

Governmental Industrial Hygienists)

Mutagenic Effects

Mutagenic effects have occurred in microorganisms.

Reproductive Effects

No information available.

Developmental Effects

No information available.

Teratogenicity

No information available.

STOT - single exposure

Central nervous system (CNS)

STOT - repeated exposure

Liver Kidney Blood

Aspiration hazard No information available

Symptoms / effects, both acute and delayed Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting: Causes central nervous system depression: Continued or high exposures by inhalation will cause anaesthetic effects. This may result in a loss of consciousness and could prove fatal: Causes formation of carbon monoxide in the blood. Carbon monoxide may cause adverse effects on the cardiovascular system and the central nervous system

Endocrine Disruptor Information No information available

Other Adverse Effects Tumorigenic effects have been reported in experimental animals.

12. Ecological information

12.1 Environmental Fate

When released into the soil, this material may leach into groundwater. When released into the soil, this material is expected to quickly evaporate. When released to water, this material is expected to quickly evaporate. This material has an experimentally-determined bio concentration factor (BCF) of less than 100. This material is not expected to significantly bio accumulate. When released into the air, this material may be moderately degraded by reaction with photo chemically produced hydroxyl radicals. When released into the air, this material is expected to have a half-life between 1 and 10 days.

12.2 Environmental Toxicity

The LC50/96-hour values for fish are between 10 and 100 mg/l. This material is expected to be slightly toxic to aquatic life.

13. Disposal Consideration

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved incinerator or disposed in a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport information

DOT

| | |
|----------------------|-----------------|
| UN-No | UN1593 |
| Proper Shipping Name | DICHLOROMETHANE |
| Hazard Class | 6.1 |
| Packing Group | III |

TDG

| | |
|----------------------|-----------------|
| UN-No | UN1593 |
| Proper Shipping Name | DICHLOROMETHANE |
| Hazard Class | 6.1 |
| Packing Group | III |

IATA

| | |
|----------------------|-----------------|
| UN-No | UN1593 |
| Proper Shipping Name | Dichloromethane |
| Hazard Class | 6.1 |
| Packing Group | III |

IMDG/IMO

| | |
|----------------------|-----------------|
| UN-No | UN1593 |
| Proper Shipping Name | Dichloromethane |
| Hazard Class | 6.1 |
| Packing Group | III |

15. Regulatory information

U.S. REGULATIONS

OSHA REGULATORY STATUS:

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4):

If a release is reportable under CERCLA section 103, notify the state emergency response commission and local emergency planning committee. In addition, notify the National Response Center at (800) 424-8802 or (202) 426-2675.

| Component | U.S. DOT Hazardous Substances/ RQs | CERCLA Hazardous Substances / RQs | CERCLA Section 302 EHS EPCRA RQs | Section 302 Threshold Planning Quantity (TPQs) |
|---|------------------------------------|-----------------------------------|----------------------------------|--|
| Methylene chloride (Dichloromethane) 75-09-2 (100) | 1000 lbs(RQ) | 1000 lb(final RQ) | Not listed | Not Listed |

SARA EHS Chemical (40 CFR 355.30)

If a release is reportable under EPCRA, notify the state emergency response commission and local emergency planning committee. If the TPQ is met, facilities are subject to reporting requirements under EPCRA Sections 311 and 312.

EPCRA SECTIONS 311/312 HAZARD CATEGORIES (40 CFR 370.10):

Acute Health Hazard, Chronic Health Hazard

SARA HAZARD CATEGORIES ALIGNED WITH GHS (2018):

Health Hazard - Carcinogen
 Health Hazard - Acute Toxin (any route of exposure)
 Health Hazard - Skin Corrosion or Irritation
 Health Hazard - Serious eye damage or eye irritation
 Health Hazard - Specific Target Organ Toxicity (STOT) Single Exposure (SE)
 Health Hazard - Specific Target Organ Toxicity (STOT) Repeat Exposure (RE)
 Health Hazard - Aspiration Hazard

EPCRA SECTION 313 (40 CFR 372.65):

The following chemicals are listed in 40 CFR 372.65 and may be subject to Community Right-to Know Reporting requirements.

| Component | SARA 313 - Emission Reporting | SARA 313 PBT |
|---|---------------------------------|--------------|
| Methylene chloride (Dichloromethane) 75-09-2 (100) | 0.1% (de minimis concentration) | Not Listed |

OSHA SPECIFICALLY REGULATED SUBSTANCES:

• OSHA 29 CFR 1910.1052 (Methylene chloride); The U.S. Department of Labor, Occupational Safety and Health Administration specifically regulates manufacturing, handling and processing of methylene chloride. Such regulations have been published at 29 CFR 1910.1052

OSHA PROCESS SAFETY (PSM) (29 CFR 1910.119):

Not regulated.

FDA: This material has Generally Recognized As Safe (GRAS) status under specific U.S. Food and Drug Administration (FDA) regulations. Additional information is available from the Code of Federal Regulations, which is accessible on the FDA's website. Only food grade product is guaranteed to be produced under all current Good Manufacturing Practices (cGMP) requirements as defined by the FDA. Food grade product is produced in a facility that is accredited as a Safe Quality Food (SQF) Level 2 Facility, certified under the Global Food Safety Initiative (GFSI), and meets the Food Chemical Codex (FCC) requirements.

| Component | Clean Water Act - Priority Pollutants | CAA - ODS CLASS 1 AND CLASS 2 | CAA - Volatile Organic Compounds (VOCs) in SOCM1 | CAA - HON Rule - Organic HAPs | CAA - Hazard Air Pollutants | CAA - Urban HAPs List (Integrated Urban Strategy) | SNAP - Substitutes for ODS | EPA RMP Toxic or Flammable TPQ |
|--------------------------------------|---------------------------------------|-------------------------------|--|-------------------------------|-----------------------------|---|----------------------------|--------------------------------|
| Methylene chloride (Dichloromethane) | Present | Not Listed | Present | Present | Present | Present | Not Listed | Not Listed |

NATIONAL INVENTORY STATUS

| Component | TSCA Inventory | TSCA ACTIVE LIST | TSCA 12(b) | TSCA - Section 4 | TSCA - Section 5 | TSCA - Section 6 | TSCA - Section 8 |
|---|----------------|------------------|---------------------------|------------------|------------------|--------------------------------------|------------------|
| Methylene chloride (Dichloromethane) 75-09-2 (100 %) | Listed | ACTIVE | Imports/Exports Regulated | Not listed | Not Listed | Chemicals subject to Risk Evaluation | Listed |

Toxic Substance Control Act (TSCA) Restriction of Use:

This chemical/product is not and cannot be distributed in commerce (as defined in TSCA section 3(5)) or processed (as defined in TSCA section 3(13)) for consumer paint or coating removal.

TSCA 12(b): Methylene Chloride is subject to TSCA 12(b) annual reporting requirements (per country)

De minimis reporting level: 0.1%

TSCA Section(s): 6(a).

CANADIAN CHEMICAL INVENTORY: All components of this product are listed on either the DSL or the NDSL.

| Component | DSL | NDSL |
|--|--------|------------|
| Methylene chloride (Dichloromethane) 75-09-2 (100) | Listed | Not Listed |

STATE REGULATIONS

California Proposition 65:

This product contains a chemical known to the State of California to cause cancer, and/or birth defects, and/or other reproductive harm as listed under Proposition 65 State Drinking Water and Toxic Enforcement Act.

| Component | California Proposition 65 Cancer WARNING: | California Proposition 65 CRT List - Male reproductive toxin: | California Proposition 65 CRT List - Female reproductive toxin: | Massachusetts Right to Know Hazardous Substance List | Rhode Island Right to Know Hazardous Substance List |
|--------------------------------------|---|---|---|--|---|
| Methylene chloride (Dichloromethane) | Listed | Not Listed | Not Listed | Listed | Listed |

| Component | New Jersey Right to Know Hazardous Substance List | New Jersey Special Health Hazards Substance List | New Jersey - Environmental Hazardous Substance List | Pennsylvania Right to Know Hazardous Substance List | Pennsylvania Right to Know Special Hazardous Substances | Pennsylvania Right to Know Special Hazardous Substances | Pennsylvania Right to Know Environmental Hazard List |
|--------------------------------------|---|--|---|---|---|---|--|
| Methylene chloride (Dichloromethane) | 1255 | Not Listed | Listed | Listed | Present | Present | Present |

CANADIAN REGULATIONS

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

| Component | Canada - CEPA - Schedule 1 - List of Toxic Substances | Canada - NPRI | Canada - CEPA - 2010 Greenhouse Gases (GHG) Subject to Mandatory Reporting | CANADIAN CHEMICAL INVENTORY: | NDSL: |
|--|---|--|--|------------------------------|------------|
| Methylene chloride (Dichloromethane) 75-09-2 (100) | Present (037) Present (065) | Part 1, Group 1 Substance Part 4 Substance | Not Listed | Listed | Not Listed |

16. Other Information

16.1 Effective Date
09/12/2022

16.2 Additional information
For Other Information Contact **CHEM TRUST Solutions**.

16.3 Label Hazard Warning
WARNING! HARMFUL IF SWALLOWED OR INHALED. AFFECTS HEART, CENTRAL NERVOUS SYSTEM, LIVER AND KIDNEYS. CAUSES SEVERE SKIN IRRITATION. CAUSES IRRITATION TO EYES AND RESPIRATORY TRACT. SUSPECT CANCER HAZARD. MAY CAUSE CANCER. Risk of cancer depends on level and duration of exposure.

16.4 Label Precautions:
Do not get in eyes, on skin, or on clothing.
Do not breathe vapour.
Keep container closed.
Use only with adequate ventilation.
Wash thoroughly after handling.
Keep away from heat and flame.

16.5 Label First Aid:
If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. In all cases call a physician. Note to physician: Do not administer adrenaline or epinephrine to a victim of chlorinated solvent poisoning.

17. Disclaimer

The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations.