## SAFETY DATA SHEET



## 1. Identification

Product identifier DICHLOROMETHANE

Other means of identification

**CAS number** 75-09-2

Synonyms Methylene dichloride

Recommended use General purpose solvent.

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.

**Recommended restrictions** Use in accordance with manufacturer's recommendations.

Manufacturer/Importer/Supplier/Distributor information

Company Name Greenfield Global USA Inc.

Address 58 Vale Road

Brookfield, CT 06804

USA

 Telephone
 203.740.3471

 Fax
 203.740.3481

Company Name Greenfield Global USA Inc.

Address 1101 Isaac Shelby Drive

Shelbyville, KY 40065

USA

**Telephone** 502.232.7600

**Emergency phone number** 

USA CHEMTREC: 1.800.424.9300 (CCN 17213)
International CHEMTREC: +1.703.527.3887 (CCN 17213)

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2A Carcinogenicity Category 2

Specific target organ toxicity, single exposure 
Category 3 respiratory tract irritation

Specific target organ toxicity, single exposure Category 3 narcotic effects

Specific target organ toxicity, repeated Category 2 (liver, kidney, central nervous

exposure system)

OSHA defined hazards Not classified.

Label elements



Signal word Warning

Hazard statement Causes skin irritation. Causes serious eye irritation. Suspected of causing cancer. May cause

respiratory irritation. May cause drowsiness or dizziness. May cause damage to organs (liver,

kidney, central nervous system) through prolonged or repeated exposure.

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**Precautionary statement** 

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Do not breathe mist or vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face

protection.

If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take Response

off contaminated clothing and wash before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. If exposed or concerned: Get medical advice/attention. Call a poison

center/doctor if you feel unwell.

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Storage

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information

None.

## 3. Composition/information on ingredients

#### **Substances**

Chemical name	Common name and synonyms	CAS number	%
Dichloromethane		75-09-2	100

**Composition comments** 

All concentrations are in percent by weight unless otherwise indicated.

#### 4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison

center or doctor/physician if you feel unwell.

Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get Skin contact

medical advice/attention. Wash contaminated clothing before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Most important

symptoms/effects, acute and

delayed

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain. Prolonged exposure may cause

chronic effects.

Indication of immediate medical attention and special

treatment needed

General information

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

IF exposed or concerned: Get medical advice/attention. 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.

#### 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed. Combustion products may include: Carbon oxides. Phosgene. Hydrogen chloride.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards No unusual fire or explosion hazards noted.

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#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

This product is slightly soluble in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

#### Occupational exposure limits

US. OSHA Specifically	Regulated Substances	: /29 CFR 19	10 1001_1053\
US. USI IA SDECITICATIV	Neudialed Substances	3 123 CI IX I3	10.1001-10331

Material	Туре	Value	
Dichloromethane (CAS 75-09-2)	STEL	125 ppm	
	TWA	25 ppm	
US. ACGIH Threshold Limit Valu	ues (TLV)		
Material	Type	Value	
Dichloromethane (CAS 75-09-2)	TWA	50 ppm	
NIOSH. Immediately Dangerous	to Life or Health (IDLH) Values	as amended	
Material	Туре	Value	
Dichloromethane (CAS 75-09-2)	IDLH	13 %	
		2300 ppm	

#### **Biological limit values**

## **ACGIH Biological Exposure Indices (BEI)**

Material	Value	Determinant	Specimen	Sampling Time
Dichloromethane (CAS 75-09-2)	0.3 mg/l	Dichlorometha ne	Urine	*

<sup>\* -</sup> For sampling details, please see the source document.

# Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.

## Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles). Chemical goggles are recommended.

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Skin protection

**Hand protection** Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove

supplier. Be aware that the liquid may penetrate the gloves. Frequent change is advisable.

Skin protection

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection If engineering controls do not maintain airborne concentrations below recommended exposure

limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Respirator type: Supplied-air respirator

with full facepiece, helmet or hood.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Observe any medical surveillance requirements. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

**Appearance** 

Physical state Liquid.
Form Liquid.

Color Clear. Colorless.

Odor Not available.

Odor threshold Not available.

pH Not available.

Melting point/freezing point -142.6 °F (-97 °C)

Initial boiling point and boiling

range

104 °F (40 °C)

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) 13 % v/v
Explosive limit - upper (%) 19 % v/v

**Vapor pressure** 470.9 hPa (353.2 mmHg) (68 °F (20 °C))

Vapor density 2.9

Relative density 1.325 g/ml (77 °F (25 °C))

Solubility(ies)

Solubility (water) slightly soluble

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature 1033 °F (556.11 °C)

Decomposition temperatureNot available.ViscosityNot available.

Other information

Explosive properties Not explosive.

Molecular formula C-H2-Cl2

Molecular weight 84.93 g/mol

Oxidizing properties Not oxidizing.

#### 10. Stability and reactivity

**Reactivity**The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous Hazardous polymerization does not occur.

reactions

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Conditions to avoid Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with

Strong oxidizing agents. Alkali metals. Caustics. Nitric acid.

incompatible materials.

Incompatible materials

Hazardous decomposition

products

Toxic gases/vapors. Hydrogen chloride gas. Phosgene.

## 11. Toxicological information

#### Information on likely routes of exposure

Inhalation May cause drowsiness and dizziness. Headache. Nausea, vomiting. May cause irritation to the

respiratory system. Prolonged inhalation may be harmful.

**Skin contact** Causes skin irritation.

Eye contact Causes serious eye irritation.

Ingestion May be harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain. Prolonged exposure may cause

> 2000 mg/kg

chronic effects.

#### Information on toxicological effects

Acute toxicity May be harmful if swallowed.

 Product
 Species
 Test Results

 Dichloromethane (CAS 75-09-2)
 Acute

 Dermal
 LD50
 Rat
 > 2000 mg/kg

 Inhalation
 Vapor

 LD50
 Rat
 59.9 mg/l, 4 hours

 Oral

LD50 Rat

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

#### Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Suspected of causing cancer.

## IARC Monographs. Overall Evaluation of Carcinogenicity

Dichloromethane (CAS 75-09-2) 2A Probably carcinogenic to humans.

NTP Report on Carcinogens

Dichloromethane (CAS 75-09-2) Reasonably Anticipated to be a Human Carcinogen.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Dichloromethane (CAS 75-09-2)

Cancer

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

Specific target organ toxicity -

single exposure

repeated exposure

May cause respiratory irritation. May cause drowsiness and dizziness.

May cause damage to organs (liver, kidney, central nervous system) through prolonged or repeated exposure.

**Aspiration hazard** Not an aspiration hazard.

Chronic effects May cause damage to organs through prolonged or repeated exposure. Prolonged inhalation may

be harmful. Prolonged exposure may cause chronic effects.

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## 12. Ecological information

**Ecotoxicity** 

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Product Species Test Results** 

Dichloromethane (CAS 75-09-2)

Aquatic Acute

Crustacea LC50 220 mg/l, 48 hours Daphnia magna Fish LC50 Pimephales promelas 193 mg/l, 96 hours

Persistence and degradability No data is available on the degradability of this substance.

Bioaccumulative potential No data available for this product. The product is slightly soluble in water. Mobility in soil

No data available. Other adverse effects

## 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

Dispose in accordance with all applicable regulations. Local disposal regulations

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

#### US RCRA Hazardous Waste U List: Reference

Dichloromethane (CAS 75-09-2) U080

Waste from residues / unused

products

Dispose in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal

instructions).

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

## 14. Transport information

DOT

**UN** number UN1593

**UN proper shipping name** 

Transport hazard class(es)

Dichloromethane (RQ = 1,000 lbs)

Class 6.1 Subsidiary risk Label(s) 6.1 Packing group Ш

**Environmental hazards** 

Marine pollutant No.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IB3, IP8, N36, T7, TP2 Special provisions

153 Packaging exceptions 203 Packaging non bulk Packaging bulk 241

IATA

UN1593 **UN** number

Dichloromethane **UN proper shipping name** 

Transport hazard class(es)

Class 6.1 Subsidiary risk Ш Packing group **Environmental hazards** No. **ERG Code** 6L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**IMDG** 

**UN** number UN1593

**DICHLOROMETHANE** SDS US UN proper shipping name

**DICHLOROMETHANE** 

Transport hazard class(es)

6.1 Class Subsidiary risk Ш Packing group

**Environmental hazards** 

Marine pollutant Nο F-A, S-A **EmS** 

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to

Not established.

Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information

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

Standard, 29 CFR 1910.1200.

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 Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Dichloromethane (CAS 75-09-2) 0.1 % Annual Export Notification required.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Dichloromethane (CAS 75-09-2) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Dichloromethane (CAS 75-09-2)

Heart

Central nervous system

Liver

Skin irritation Eye irritation

**Toxic Substances Control Act (TSCA)** This substance is on the TSCA 8(b) inventory and is designated "active".

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

Yes

Classified hazard

Skin corrosion or irritation

categories

Serious eye damage or eye irritation

Carcinogenicity

Specific target organ toxicity (single or repeated exposure)

SARA 313 (TRI reporting)

Chemical name **CAS** number % by wt. Dichloromethane 75-09-2 100

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Dichloromethane (CAS 75-09-2)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Clean Water Act (CWA) Section 112(r) (40 CFR

Priority pollutant Toxic pollutant

68.130)

Safe Drinking Water Act

(SDWA)

Contains component(s) regulated under the Safe Drinking Water Act.

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## **US** state regulations

#### **US. Massachusetts RTK - Substance List**

Dichloromethane (CAS 75-09-2)

#### US. New Jersey Worker and Community Right-to-Know Act

Dichloromethane (CAS 75-09-2)

#### US. Pennsylvania Worker and Community Right-to-Know Law

Dichloromethane (CAS 75-09-2)

#### **US. Rhode Island RTK**

Dichloromethane (CAS 75-09-2)

#### **California Proposition 65**



WARNING: This product can expose you to Dichloromethane, which is known to the State of California to

cause cancer. For more information go to www.P65Warnings.ca.gov.

### California Proposition 65 - CRT: Listed date/Carcinogenic substance

Inventory name

Dichloromethane (CAS 75-09-2) Listed: April 1, 1988

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Dichloromethane (CAS 75-09-2)

#### International Inventories

Taiwan

Country(s) or region

Country(s) or region	inventory name	On inventory (yes/no)
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

United States & Puerto Rico 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)

Taiwan Chemical Substance Inventory (TCSI)

## 16. Other information, including date of preparation or last revision

Issue date17-October-2018Revision date16-September-2023

Version # 03

HMIS® ratings Health: 2

Flammability: 1 Physical hazard: 0

**Disclaimer** This product is subject to Greenfield Global USA Inc.'s terms and conditions, which can be found

at http://www.greenfield.com/tc-po-us/. Greenfield cannot anticipate all conditions under which this information and this product, or the products of other manufacturers in combination with this product, may be used. The user is responsible for the proper and safe use, handling, storage and disposal of the product, and assumes liability for any loss, injury, damage or expense arising from any failure to do so. The data in this sheet is based on information and experience available at the

time of writing.

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Yes

Yes

On inventory (yes/no)\*

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).