

## SAFETY DATA SHEET

#### 1. Identification

Product identifier DICHLOROMETHANE, VERITAS® ULTIMATE

Other means of identification

Product code 5565 CAS number 75-09-2

Synonyms METHYLENE CHLORIDE

**Recommended use** professional, scientific and technical activities: other professional, scientific and technical activities

**Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

**Company name**Address
800 Kaderly Drive
Columbus, OH 43228

United States

**Telephone** Phone 740-881-5501

Toll Free 800-858-9682 Fax 740-881-5989

Website www.gfschemicals.com
E-mail service@gfschemicals.com

Emergency phone Emergency Assistance

number

## 2. Hazard(s) identification

**Physical hazards** Not classified.

Health hazardsAcute toxicity, oralCategory 4Skin corrosion/irritationCategory 2

Serious eye damage/eye irritation Category 2A
Carcinogenicity Category 1B
Specific target organ toxicity, single exposure Category 1

Specific target organ toxicity, single exposure Category 3 narcotic effects

Chemtrec 800-424-9300

Specific target organ toxicity, repeated Category 1

exposure

**Environmental hazards** Not classified. **OSHA defined hazards** Not classified.

**Label elements** 



Signal word Danger

**Hazard statement** Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or

dizziness. May cause cancer. Causes damage to organs. Causes damage to organs through

prolonged or repeated exposure.

**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. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective

gloves/protective clothing/eye protection/face protection.

**Response** If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all

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

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

**Disposal** Dispose of contents/container to an appropriate treatment and disposal facility in accordance with

applicable laws and regulations, and product characteristics at time of disposal.

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	METHYLENE CHLORIDE	75-09-2	100

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 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.

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

medical advice/attention. Wash contaminated clothing before reuse. For minor skin contact, avoid

spreading material on unaffected skin.

**Eve 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. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Get medical advice/attention if you feel unwell.

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. 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 warm. 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.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

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

#### 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

None known.

**Special protective equipment** and precautions for

firefighters

Fire fighting

equipment/instructions

Specific methods

Move containers from fire area if you can do so without risk.

**General fire hazards** No unusual fire or explosion hazards noted.

#### 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.

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# Methods and materials for containment and cleaning up

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk. Should not be released into the environment. Prevent entry into waterways, sewer, basements or confined areas. Clean up in accordance with all applicable regulations.

Large Spills: Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. 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.

Never return spills in original containers for re-use.

**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 taste or swallow. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. 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**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Material	Туре	Value	
DICHLOROMETHANE (CAS 75-09-2)	STEL	125 ppm	
	TWA	25 ppm	
US. ACGIH Threshold Limit Value	es		
Material	Туре	Value	
DICHLOROMETHANE (CAS 75-09-2)	TWA	50 ppm	

#### **Biological limit values**

## **ACGIH Biological Exposure Indices**

Material	Value	Determinant	Specimen	Sampling Time	
DICHLOROMETHANE (	CAS 0.3 mg/l	Dichloromethan	Urine	*	
75-09-2)		е			

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

## Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) 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).

Skin protection

**Hand protection** Wear appropriate chemical resistant gloves.

**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. Chemical respirator with organic vapor

cartridge and full facepiece.

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

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General hygiene considerations

Observe any medical surveillance requirements. Keep away from food and drink. 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 Clear.

Physical stateLiquid.FormLiquid.ColorColorless.

**Odor** strong characteristic.

Odor thresholdNot available.pHNot available.Melting point/freezing point-139 °F (-95 °C)

Initial boiling point and

boiling range

103.55 °F (39.75 °C) 101.325 kPa

**Flash point** Does not flash by standard methods.

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Flammability limit -

upper (%)

66.4 %

Not available.

58 kPa (77 °F (25 °C))

15.5 %

Explosive limit - lower

(%)

Explosive limit - upper

(%) Vapor pressure **Ipper** Not available.

Vapor density 2.93

**Relative density** Not available.

Solubility(ies)

Solubility (water) 20 g/l Partition coefficient 1.25

(n-octanol/water)

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

**Decomposition temperature** Not available. **Viscosity** Not available.

Other information

**Density** 1.33 g/cm3 estimated at 20 °C **Dynamic viscosity** 0.43 mPa.s (68 °F (20 °C))

**Explosive properties** Not explosive. **Heat of combustion** 2.1 kJ/g

(NFPA 30B)

**Kinematic viscosity** 0.3244 mm<sup>2</sup>/s estimated

Molecular formulaCH2Cl2Molecular weight84.93 g/molOxidizing propertiesNot oxidizing.Percent volatile100 %

**Specific gravity** 1.33 at 20 °C

**Surface tension** 28.12 mN/m (68 °F (20 °C))

**VOC** 100 %

## 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.

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Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. None known.

Contact with incompatible materials.

**Incompatible materials Hazardous decomposition** 

products

Hydrogen chloride. Phosgene

Strong oxidizing agents.

## 11. Toxicological information

#### Information on likely routes of exposure

**Inhalation** May cause damage to organs by inhalation. May cause drowsiness and dizziness. Headache.

Nausea, vomiting. Prolonged inhalation may be harmful.

Skin contact Causes skin irritation.

**Eye contact** Causes serious eve irritation.

Ingestion 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. Skin irritation. May cause

redness and pain.

#### Information on toxicological effects

**Acute toxicity** Harmful if swallowed.

**Product Test Results Species** DICHLOROMETHANE (CAS 75-09-2)

**Acute** 

**Inhalation** 

LC50 Guinea pig 11600 mg/l, 6 Hours

40.2 mg/l, 6 Hours

Mouse 14400 mg/l, 7 Hours

> 56.23 mg/l, 7 Hours 51.5 mg/l, 2 Hours 49.1 mg/l, 6 Hours

Rat 2000 mg/l, 15 Minutes

> 79 mg/l, 2 Hours 52 mg/l, 6 Hours

LD50 Mouse 16000 mg/l, 7 Hours

Oral

LD50 Rat 3000 mg/kg

1600 mg/kg

Other

LD50 Mouse 6460 mg/kg

437 mg/kg

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 May cause cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

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

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

DICHLOROMETHANE (CAS 75-09-2)

US. National Toxicology Program (NTP) Report on Carcinogens

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

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Specific target organ toxicity Causes dan

- single exposure

Causes damage to organs. May cause drowsiness and dizziness.

Specific target organ toxicity

- repeated exposure

Causes damage to organs through prolonged or repeated exposure.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects**Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be

harmful. Prolonged exposure may cause chronic effects.

## 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** 

Crustacea EC50 Water flea (Daphnia magna) 1250 mg/l, 48 hours

Fish LC50 Fathead minnow (Pimephales promelas) 140.8 - 277.8 mg/l, 96 hours

Persistence and degradability None known.

**Bioaccumulative potential** 

Partition coefficient n-octanol / water (log Kow)

1.25

**Mobility in soil** No data available.

**Other adverse effects**The product contains volatile organic compounds which have a photochemical ozone creation

potential.

#### 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 of

as hazardous waste in compliance with local and national regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

Hazardous waste code

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

disposal company. U080: Waste Methylene chloride

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

DICHLOROMETHANE (CAS 75-09-2) U080

Waste from residues / unused products

Dispose of 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

residuest. This material and its container must be disposed of in a safe manner (see: Disposal

instructions).

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

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** Dichloromethane

Transport hazard class(es)

Class 6.1(PGIII)

Subsidiary risk -Label(s) 6.1 Packing group III

**Special precautions for** 

user

Read safety instructions, SDS and emergency procedures before handling.

**Special provisions** IB3, IP8, N36, T7, TP2

Packaging exceptions 153
Packaging non bulk 203
Packaging bulk 241

**IATA** 

UN number UN1593

**UN proper shipping name** Dichloromethane

Transport hazard class(es)

Class 6.1(PGIII)

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**Subsidiary risk Packing group** III **Environmental hazards** No. **ERG Code** 6L

Special precautions for

user

Read safety instructions, SDS and emergency procedures before handling.

Passenger and cargo

aircraft

Other information

Allowed with restrictions.

Cargo aircraft only Allowed with restrictions.

**IMDG** 

**UN** number UN1593

**DICHLOROMETHANE UN proper shipping name** 

Transport hazard class(es)

**Class** 6.1(PGIII)

**Subsidiary risk Packing group** III **Environmental hazards** 

Marine pollutant No. **EmS** F-A, S-A

Special precautions for 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

#### DOT



#### IATA; IMDG



## 15. Regulatory information

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

29 CFR 1910.1200.

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 1910.1001-1052)

DICHLOROMETHANE (CAS 75-09-2) Cancer

Heart

Central nervous system

Liver

Skin irritation Eye irritation

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#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### SARA 302 Extremely hazardous substance

Not listed.

**SARA 311/312** Yes

**Hazardous chemical** 

**Classified hazard** Acute toxicity (any route of exposure)

**categories** Skin corrosion or irritation

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)** 

Priority pollutant

Section 112(r) (40 CFR

68.130)

Safe Drinking Water Act (SDWA)

0 mg/l 0.005 mg/l

#### **US state regulations**

#### **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

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**

On inventory (yes/no)*
Yes
Yes
No
Yes
Yes
No
Yes

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

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

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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).

**Disclaimer**GFS Chemicals, Inc. cannot anticipate all conditions under which this information and its product,

or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the

sheet was written based on the best knowledge and experience currently available.

**Revision information** This document has undergone significant changes and should be reviewed in its entirety.