

**Dichloromethane****300-1L**

Version 1.0

Revision Date 02/21/2018

Print Date 02/21/2018

**SECTION 1. IDENTIFICATION**

Product name : Dichloromethane

Number : 000000022852

Product Use Description : Solvent

Manufacturer or supplier's details : Manufactured by:  
Honeywell International Inc.  
1953 South Harvey Street  
Muskegon, MI 49442  
USA

Distributed by:  
VWR International  
2360 Argentia Road  
Mississauga, Ontario L5N 5Z7  
CANADA

For more information call : 1-800-932-5000  
(Monday-Friday, 9:00am-5:00pm)

In case of emergency call : **Medical: 1-800-498-5701 or +1-303-389-1414**  
: **Transportation (CHEMTREC): 1-800-424-9300 or**  
: **+1-703-527-3887**  
:  
: (24 hours/day, 7 days/week)

**SECTION 2. HAZARDS IDENTIFICATION****Emergency Overview**

Form : liquid, clear

Color : colourless

Odor : sweet mild

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**Classification of the substance or mixture**

Classification of the substance or mixture : Skin irritation, Category 2  
Eye irritation, Category 2A  
Carcinogenicity, Category 2  
Specific target organ toxicity - single exposure, Category 3,  
Central nervous system

**GHS Label elements, including precautionary statements**

Symbol(s)

:



Signal word

: Warning

Hazard statements

: Causes skin irritation.  
Causes serious eye irritation.  
May cause drowsiness and dizziness.  
Suspected of causing cancer.

Precautionary statements

: **Prevention:**  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
Wash skin thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves/protective clothing/eye protection/face protection.**Response:**

IF ON SKIN: Wash with plenty of soap and water.  
IF INHALED: Remove victim to fresh air and keep at rest in a position 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.

**Storage:**

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

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#### Disposal:

Dispose of contents/ container to an approved waste disposal plant.

#### Carcinogenicity

NTP:	Dichloromethane	75-09-2
	Reasonably Anticipated to be a Human Carcinogen.	
IARC:	Dichloromethane	75-09-2
	Group 2A: Probably carcinogenic to humans	
OSHA:	Dichloromethane	75-09-2
	Potential cancer hazard.	
ACGIH:	Dichloromethane	75-09-2
	A3: Confirmed animal carcinogen	

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : CH<sub>2</sub>Cl<sub>2</sub>  
 Chemical nature : Substance

Chemical name	CAS-No.	Concentration
Dichloromethane	75-09-2	100.00 %

### SECTION 4. FIRST AID MEASURES

Inhalation : Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Use oxygen as required, provided a qualified operator is present. Call a physician.

Skin contact : Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. Call a physician.

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- Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician.
- Ingestion : Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Call a physician.

**Notes to physician**

- Indication of immediate medical attention and special treatment needed, if necessary : Treat symptomatically.

**SECTION 5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Dry chemical  
Carbon dioxide (CO<sub>2</sub>)  
Foam  
Cool closed containers exposed to fire with water spray.
- Specific hazards during firefighting : This product is not flammable at ambient temperatures and atmospheric pressure.  
Exposure to decomposition products may be a hazard to health.  
In case of fire hazardous decomposition products may be produced such as:  
Phosgene  
Chlorine (Cl<sub>2</sub>)  
Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)  
Gaseous hydrogen chloride (HCl).
- Special protective equipment for firefighters : Wear self-contained breathing apparatus and protective suit.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : Wear personal protective equipment.  
Immediately evacuate personnel to safe areas.  
Keep people away from and upwind of spill/leak.  
Isolate the affected area. Confine entry into the affected area to those persons properly protected (see Section 8 of MSDS).  
Ensure adequate ventilation.

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- Avoid accumulation of vapours in low areas.  
Remove all sources of ignition.  
Do not swallow.  
Avoid breathing vapours, mist or gas.  
Avoid contact with skin, eyes and clothing.
- Environmental precautions : Prevent further leakage or spillage if safe to do so.  
Do not let product enter drains.  
Discharge into the environment must be avoided.  
Do not flush into surface water or sanitary sewer system.  
Do not allow run-off from fire fighting to enter drains or water courses.
- Methods and materials for containment and cleaning up : Ventilate the area.  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Shovel into suitable container for disposal.  
Dispose of absorbed material in accordance with the regulations.

**SECTION 7. HANDLING AND STORAGE****Handling**

- Precautions for safe handling : Wear personal protective equipment.  
Use only in well-ventilated areas.  
Keep container tightly closed.  
Do not smoke.  
Do not swallow.  
Avoid breathing vapours, mist or gas.  
Avoid contact with skin, eyes and clothing.
- Advice on protection against fire and explosion : The product is not flammable.  
Normal measures for preventive fire protection.  
Keep product and empty container away from heat and sources of ignition.  
Fire or intense heat may cause violent rupture of packages.  
Container hazardous when empty.

**Storage**

- Conditions for safe storage, including any incompatibilities : Protect from physical damage.  
Keep containers tightly closed in a dry, cool and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.

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Keep away from heat and sources of ignition.  
 Keep away from direct sunlight.  
 Store away from incompatible substances.  
 Container hazardous when empty.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- |                          |   |  |
|--------------------------|---|--|
| Protective measures      | : | Ensure that eyewash stations and safety showers are close to the workstation location.   |
| Engineering measures     | : | Use with local exhaust ventilation.<br>Prevent vapour buildup by providing adequate ventilation during and after use.  |
| Eye protection           | : | Do not wear contact lenses.<br>Wear as appropriate:<br>Safety glasses with side-shields<br>If splashes are likely to occur, wear:<br>Goggles or face shield, giving complete protection to eyes  |
| Hand protection          | : | Solvent-resistant gloves<br>Gloves must be inspected prior to use.<br>Replace when worn.   |
| Skin and body protection | : | Wear as appropriate:<br>Solvent-resistant apron<br>Solvent-resistant gloves<br>If splashes are likely to occur, wear:<br>Protective suit   |
| Respiratory protection   | : | In case of insufficient ventilation, wear suitable respiratory equipment.<br>Wear a positive-pressure supplied-air respirator.<br>For rescue and maintenance work in storage tanks use self-contained breathing apparatus.<br>Use NIOSH approved respiratory protection.   |
| Hygiene measures         | : | When using, do not eat, drink or smoke.<br>Wash hands before breaks and immediately after handling the product.<br>Keep working clothes separately.<br>Remove and wash contaminated clothing before re-use.<br>Do not swallow.<br>Avoid breathing vapours, mist or gas.<br>Avoid contact with skin, eyes and clothing.<br>This material has an established AIHA ERPG exposure limit. |

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The current list of ERPG exposure limits can be found at [http://www.aiha.org/insideaiha/GuidelineDevelopment/ERPG/Documents/2011erpgweelhandbook\\_table-only.pdf](http://www.aiha.org/insideaiha/GuidelineDevelopment/ERPG/Documents/2011erpgweelhandbook_table-only.pdf).

#### Exposure Guidelines

Components	CAS-No.	Value	Control parameters	Update	Basis
Dichloromethane	75-09-2	TWA : Time weighted average	174 mg/m <sup>3</sup> (50 ppm)	10 2006	CAD AB OEL:Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)
Dichloromethane	75-09-2	TWA : Time weighted average	(25 ppm)	07 2007	CAD BC OEL:Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)
Dichloromethane	75-09-2	TWA : Time weighted average	(50 ppm)	03 2011	CAD MB OEL:Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)
Dichloromethane	75-09-2	TWA : Time weighted average	(50 ppm)	11 2010	CAD ON OEL:Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

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Dichloromethane	75-09-2	8 HR ACL : 8 hour average contamin ation limit:	(50 ppm)	05 2009	CAD SK OEL:Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21)
Dichloromethane	75-09-2	15 MIN ACL : 15 minute average contamin ation limit:	(75 ppm)	05 2009	CAD SK OEL:Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21)
Dichloromethane	75-09-2	15 MIN ACL : 15 minute average contamin ation limit:	(63 ppm)	05 2009	CAD SK OEL:Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21)
Dichloromethane	75-09-2	TWA : Time weighted average	174 mg/m3 (50 ppm) Exposure must be minimized.	12 2008	OEL (QUE):Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid, clear

Color : colourless

Odor : sweet mild



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Odor threshold : Note: no data available

pH : Note: Not applicable

Melting point/range : -95 °C

Boiling point/boiling range : 40 °C

Flash point : Note: does not flash

Evaporation rate : Note: no data available

Lower explosion limit : 12 %(V)

Upper explosion limit : 19 %(V)

Vapor pressure : 466.63 hPa  
at 20 °C(68 °F)

Vapor density : 2.9 Note: (Air = 1.0)

Density : 1.33 g/cm<sup>3</sup>

Water solubility : 13.2 g/l at 25 °C

Partition coefficient:  
n-octanol/water : Note: no data available

Ignition temperature : 556 °C

Viscosity, dynamic : Note: no data available

Viscosity, kinematic : Note: no data available

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Molecular weight : 84.94 g/mol

**SECTION 10. STABILITY AND REACTIVITY**

- Chemical stability : Stable under recommended storage conditions.
- Possibility of hazardous reactions : Hazardous polymerization does not occur.
- Conditions to avoid : Heat, flames and sparks.  
Protect from extreme heat and cold.  
Keep away from direct sunlight.
- Incompatible materials : Oxidizing agents  
Strong acids and strong bases  
Metals  
Aluminium  
Lithium  
Magnesium  
Sodium  
May attack many plastics, rubbers and coatings.
- Hazardous decomposition products : In case of fire hazardous decomposition products may be produced such as:  
Phosgene  
Chlorine (Cl<sub>2</sub>)  
Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)  
Gaseous hydrogen chloride (HCl).

**SECTION 11. TOXICOLOGICAL INFORMATION**

- Acute oral toxicity : LD50: > 2,000 mg/kg  
Species: Rat  
Method: OECD Test Guideline 401  
Note: No deaths
- Acute inhalation toxicity : LC50: 14400 ppm  
Exposure time: 7 h  
Species: Mouse

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Acute dermal toxicity	: LD50: > 2,000 mg/kg Species: Rat
Skin irritation	: Species: Rabbit Result: Moderate skin irritation
Eye irritation	: Species: Rabbit Result: Moderate eye irritation
Genotoxicity in vitro	: Test Method: Ames test Result: positive  : Test Method: In vitro gene mutation study in mammalian cells Cell type: Chinese Hamster Ovary Cells Result: positive  : Test Method: Unscheduled DNA synthesis Result: positive Note: Liver cells Mouse
Further information	: Note: Confirmed animal carcinogen with unknown relevance to humans.

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity effects**

Toxicity to fish	: static test LC50: 310 mg/l Exposure time: 96 h Species: Pimephales promelas (fathead minnow)
	: flow-through test LC50: 193 mg/l Exposure time: 96 h Species: Pimephales promelas (fathead minnow)
	: flow-through test LC50: 10.95 mg/l

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Exposure time: 96 h  
Species: Oncorhynchus mykiss (rainbow trout)

: static test  
LC50: 220 mg/l  
Exposure time: 96 h  
Species: Lepomis macrochirus (Bluegill sunfish)

Toxicity to daphnia and other aquatic invertebrates : static test  
EC50: 140 mg/l  
Exposure time: 48 h  
Species: Daphnia magna (Water flea)

Toxicity to bacteria : EC50: 1,000 mg/l  
Exposure time: 15 min  
Species: Photobacterium phosphoreum

**Further information on ecology****SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal methods : Observe all Federal, State, and Local Environmental regulations.

**SECTION 14. TRANSPORT INFORMATION**

**TDG** UN/ID No. : UN 1593  
Proper shipping name : DICHLOROMETHANE  
Class : 6.1  
Packing group : III  
Hazard Labels : 6.1

**IATA** UN/ID No. : UN 1593  
Description of the goods : DICHLOROMETHANE  
Class : 6.1  
Packaging group : III  
Hazard Labels : 6.1  
Packing instruction (cargo aircraft) : 663  
Packing instruction : 655

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	(passenger aircraft) Packing instruction (passenger aircraft)	: Y642
<b>IMDG</b>	UN/ID No.	: UN 1593
	Description of the goods	: DICHLOROMETHANE
	Class	: 6.1
	Packaging group	: III
	Hazard Labels	: 6.1
	EmS Number	: F-A, S-A
	Marine pollutant	: no

**SECTION 15. REGULATORY INFORMATION****Inventories**

US. Toxic Substances Control Act	: On TSCA Inventory
Australia. Industrial Chemical (Notification and Assessment) Act	: On the inventory, or in compliance with the inventory
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)	: All components of this product are on the Canadian DSL
Japan. Kashin-Hou Law List	: On the inventory, or in compliance with the inventory
Korea. Existing Chemicals Inventory (KECI)	: On the inventory, or in compliance with the inventory
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	: On the inventory, or in compliance with the inventory
China. Inventory of Existing Chemical Substances	: On the inventory, or in compliance with the inventory
New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand	: On the inventory, or in compliance with the inventory

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#### National regulatory information

US. EPA CERCLA Hazardous Substances (40 CFR 302) : The following component(s) of this product is/are subject to release reporting under 40 CFR 302 when release exceeds the Reportable Quantity (RQ):

Reportable quantity: 1000 lbs  
: Dichloromethane 75-09-2

**WHMIS Components** : Dichloromethane 75-09-2

**NPRI Components** : Dichloromethane 75-09-2

#### SECTION 16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 2*	2
Flammability	: 1	1
Physical Hazard	: 0	
Instability	:	0

\* - Chronic health hazard

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

#### Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group