Safety Data Sheet

Date of Issue: 15.10.2020 Date of Expiry: 15.10.2025

1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Distributor Name : **ECP Limited**
Address : PO Box 34125, Birkenhead, Auckland 0746
Telephone : +64 9 480 4386
Facsimile : +64 9 480 4385
Emergency phone number : 0800 243 622 (24 hours)

Manufacturer Name : **Avantor Performance Materials B.V.**
Address : P.O Box 1 , 7400 AA Deventer, The Netherlands

Product	**Dichloromethane**			**Code**	**6714-25**
CAS#	**HSNO#**	**UN #**	**DG Class/es**	**Packing group #**	
75-09-2	HSR001540	1593	6.1	III	

Recommended use : Laboratory Investigations

2: Hazards identification

2.1 GHS Classification
Acute toxicity, Oral (Category D)
Skin irritation (Category A)
Eye irritation (Category A)
Carcinogenicity (Category B)

2.2 GHS Label elements, including precautionary statements
Hazard Pictogram

Signal word : **Warning**

Hazard statement(s)
H302 Harmful if swallowed.
H315 Causes skin irritation.
H320 Causes eye irritation.
H351 Suspected of causing cancer.

Precautionary statement(s)
Prevention
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink, or smoke when using this product.
P280 Wear protective gloves.

Response
P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P330 Rinse mouth.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.

Storage
P405 Store locked up.

Disposal
P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Other hazards – None

3: Composition/information on ingredients

Substance / Mixture : Substance
3.1 Substances

Synonyms	: Methylene chloride
	: DCM
Formula	: CH2Cl2
Molecular weight	: 84.93 g/mol
CAS-No.	: 75-09-2
EC-No.	: 200-838-9
Index-No.	: 602-004-00-3

4: First aid measures

4.1 Description of first aid measures
General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5: Firefighting measures

5.1 Suitable Extinguishing Media
Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

5.2 Hazards from Combustion Products
Carbon oxides, Hydrogen chloride gas

5.3 Specific Hazards
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6: Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist, or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
For personal protection see section 8

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 Reference to other section
For disposal see section 13.

7: Handling and storage

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Keep away from sources of ignition - No smoking. Take measures to prevent the build-up of electrostatic charge.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Handle and store under inert gas. Hygroscopic

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8: Exposure controls/personal protection

8.1 Control parameters
Derived No Effect Level (DNEL)

Application Area	Exposure routes	Health effects	Value
Workers	Inhalation	Acute systemic effects	706 mg/m3
Workers	Inhalation	Long term systemic effect	353 mg/m3
Workers	Skin contact	Long term systemic effect	4750mg/kg BW/d
Consumers	Ingestion	Long term systemic effect	0.06mg/kg BW/d
Consumers	Inhalation	Long term systemic effect	88.3 mg/m3

Consumers	Skin contact	Long term systemic effect	2395mg/kg BW/d
Consumers	Inhalation	Acute systemic effect	353 mg/m3

8.2 Exposure controls
Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment
Eye/face protection
Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a fullface respirator with multi-purpose combination (US) or type AXBEK (EN 14387)
respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
· General Information
· Appearance:
Form : Fluid
Colour : Colourless
· Smell : Characteristic
· Odour threshold : Not determined.
· pH-value : Not determined.
· Change in condition
Melting point/Melting range : -95.1 °C
Boiling point/Boiling range : 40 °C
· Flash point : Not applicable
· Inflammability (solid, gaseous) : Not applicable.
· Ignition temperature : 605 °C
· Decomposition temperature : Not determined.
· Self-inflammability : Not determined.
· Danger of explosion : Product is not explosive.
· Critical values for explosion:
Lower : 13 Vol %

Upper	: 22 Vol %
· Steam pressure at 20 °C	: 475 hPa
· Density at 20 °C	: 1.33 g/cm³
· Relative density	: Not determined.
· Vapour density	: Not determined.
· Evaporation rate	: Not determined.
· Solubility in / Miscibility with Water at 20 °C	: 20 g/l
· Partition coefficient (n-octanol/water)	: 1.2 log POW
· Viscosity:	
dynamic at 22 °C	: 0.43 mPas
kinematic	: Not determined.

9.2 Other information
No further relevant information available.

10: Stability and reactivity

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.
Contains the following stabiliser(s):
2-Methyl-2-butene (>0.005 - <0.015 %)

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
various plastics, Rubber, Light metals, Metals, Mild steel, Strong oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - No data available

11: Toxicological information

11.1 Information on toxicological effects
Acute toxicity
· LD/LC50 values that are relevant for classification:

Oral	LD50	- 2136 mg/kg (rat)
	LDLo	- 357 mg/kg (human)
	LC50/72h	- 88 mg/l (rat)

· Primary irritant effect:
· on the skin: Light irritant
· on the eye: No irritant effect.
· Sensitisation: No sensitizing effect known.

· CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
Carc. 2

12: Ecological information

12.1 Toxicity
· Aquatic toxicity:

EC50 - 1480 mg/l (Chlamydomonas Angulosa)
EC50/96h - >662 mg/l (Selenastrum Capricornutum)
LC50 - 2270 mg/l (daphnia magna)
528 mg/l (Fish)
LC50/96h (static)- 220 mg/l (Bluegill Sunfish (Lepomis Macrochirus))
193 mg/l (Fathead minnow (Pimephales promelas))

12.2 Persistence and degradability
No further relevant information available.

12.3 Bioaccumulative potential
No further relevant information available.

12.4 Mobility in soil
No further relevant information available.

Additional ecological information:
· General notes:
Water hazard class (D) 2 (Assessment by list): hazardous for water.
Do not allow product to reach ground water, water bodies or sewage system.
Danger to drinking water if even small quantities leak into soil.
· 12.5 Results of PBT and vPvB assessment
· PBT: Not applicable.
· vPvB: Not applicable.

12.6 Other adverse effects
No further relevant information available.

13: Disposal considerations

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable.

Contaminated packaging
Dispose of as unused product.

14: Transport Information Table

		ADR/RID – European packaging certification	IMDG International Maritime Dangerous Goods Code	IATA – DGR International Air Travel Association – Dangerous Goods Regulations
14.1	**UN Number**	1593	1593	1593
14.2	**UN Proper Shipping name**	DICHLOROMETHANE	DICHLOROMETHANE	Dichloromethane
14.3	**Transport Hazard Class**	6.1	6.1	6.1
14.4	**Packaging group**	III	III	III
14.5	**Environmental Hazards**	no	no	no
14.6	**Special precautions for user**	none		

14.7	**Incompatible materials**	various plastics, Rubber, Light metals, Metals, Mild steel, Strong oxidizing agents

15: Regulatory information

15.1 Safety, health, and environmental regulations/legislation specific for the substance or mixture

National regulatory information
HSNO Approval Code: HSR001540
HSNO Group Standard Approval: HSR002596 - Laboratory Chemicals and Reagent Kits Group Standard 2006
Tracking Required: not required
Approved Handler Cert.: not required

Notification status
AICS: On the inventory, or in compliance with the inventory
DSL: All components of this product are on the Canadian DSL
ENCS: On the inventory, or in compliance with the inventory
ISHL: On the inventory, or in compliance with the inventory
KECI: On the inventory, or in compliance with the inventory
NZIoC: Not in compliance with the inventory
PICCS: On the inventory, or in compliance with the inventory

16: Disclaimer

The information above is believed to be accurate and represents the best information currently available to us. However, the information is not a guarantee expressed or implied, with respect to such information, and we assume no liability resulting from its use. Anyone using the chemical described here should ensure that he or she has the appropriate training and has the expertise and any equipment required for safe handling. If clarification or further information is required, please contact ECP Ltd or refer to the official handler of dangerous goods within your own company. The user should also make their own investigations to determine the suitability of the product for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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