

Safety data sheet according to 1907/2006/EC, Article 31

revised on: 02.02.2023

Version number 13

Creation Date: 03.02.2016

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** Dichloromethane
- **Article number:** 2306, 2311, 2333, 2356, 2371, 2384
- **CAS Number:**
75-09-2
- **EC number:**
200-838-9
- **Index number:**
602-004-00-3
- **Registration number** 01-2119487001-48-XXXX
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Life cycle stages**
PW Widespread use by professional workers
F Formulation or re-packing
IS Use at industrial Sites
- **Sector of Use**
SU8 Manufacture of bulk, large scale chemicals (including petroleum products)
SU5 Manufacture of textiles, leather, fur
SU9 Manufacture of fine chemicals
SU1 Agriculture, forestry, fishery
SU24 Scientific research and development
SU11 Manufacture of rubber products
SU12 Manufacture of plastics products, including compounding and conversion
SU18 Manufacture of furniture
SU17 General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment
SU7 Printing and reproduction of recorded media
SU13 Manufacture of other non-metallic mineral products, e.g. plasters, cement
- **Product category**
PC9a Coatings and paints, thinners, paint removers
PC9c Finger paints
PC9b Fillers, putties, plasters, modelling clay
PC1 Adhesives, sealants
PC20 Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents
PC35 Washing and cleaning products (including solvent based products)
PC37 Water treatment chemicals
PC40 Extraction agents
PC29 Pharmaceuticals
PC21 Laboratory chemicals
- **Process category**
PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.
PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition
PROC4 Chemical production where opportunity for exposure arises
PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities
PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
PROC5 Mixing or blending in batch processes
PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)
PROC15 Use as laboratory reagent
PROC7 Industrial spraying

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

revised on: 02.02.2023

Version number 13

Creation Date: 03.02.2016

Trade name: Dichloromethane

(Contd. of page 1)

- PROC11 Non industrial spraying
- PROC12 Use of blowing agents in manufacture of foam
- PROC13 Treatment of articles by dipping and pouring
- PROC10 Roller application or brushing

- **Environmental release category**

- ERC2 Formulation into mixture
- ERC6a Use of intermediate
- ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)
- ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
- ERC1 Manufacture of the substance
- ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
- ERC7 Use of functional fluid at industrial site

- **Application of the substance / the mixture**

- Industrial use
- Laboratory chemicals
- Reagent for analysis

- **1.3 Details of the supplier of the safety data sheet**

- **Manufacturer/Supplier:**

Th. Geyer GmbH & Co. KG
Dornierstr. 4 – 6
D-71272 Renningen

Tel.: +49(0)7159-1637-0, Fax:+49 (0)7159/18417

www.thgeyer.de

sicherheitsdatenblaetter@thgeyer.de

- **Further information obtainable from:** Product management department

- **1.4 Emergency telephone number:**

National Poisons Information Service

City Hospital

Dudley Road

Birmingham B18 7QH

Tel.:Emergency: (00 44) 87 06 00 62 66

Members of the public seeking specific information on poisons should contact:

In England and Wales: NHS 111 - dial 111

In Scotland: NHS 24 - dial 111

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**

- **Classification according to Regulation (EC) No 1272/2008**



GHS08 health hazard

Carc. 2 H351 Suspected of causing cancer.

- **2.2 Label elements**

- **Labelling according to Regulation (EC) No 1272/2008**

The substance is classified and labelled according to the GB CLP regulation.

- **Hazard pictograms**



GHS08

- **Signal word** Warning

(Contd. on page 3)

E

Safety data sheet

according to 1907/2006/EC, Article 31

revised on: 02.02.2023

Version number 13

Creation Date: 03.02.2016

Trade name: Dichloromethane

(Contd. of page 2)

- **Hazard statements**
H351 Suspected of causing cancer.
- **Precautionary statements**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.1 Substances**
- **CAS No. Description**
CAS: 75-09-2 Dichloromethane
- **Identification number(s)**
- **EC number:** 200-838-9
- **Index number:** 602-004-00-3

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:**
First aider needs to protect himself.
Immediately remove any clothing soiled by the product.
- **After inhalation:**
Remove person from danger area.
Supply fresh air.
Call a doctor immediately.
- **After skin contact:**
Flush contaminated skin with soap and plenty of water.
After prolonged contact or any signs of skin changes (redness or other signs of inflammation) seek medical attention.
take care of a Possibility of inhalation at the same time
- **After eye contact:**
Rinse out opened eye for several minutes under running water.
Protect unharmed eye.
Seek immediate medical advice.
- **After swallowing:**
Do not induce vomiting
Call emergency doctor
Rinse out mouth and then drink plenty of water.
A person vomiting while laying on their back should be turned onto their side.
- **Information for doctor:** Please observe safety data sheet/label.
- **4.2 Most important symptoms and effects, both acute and delayed**
Nausea
Profuse sweating
Headache
Dazed feeling
Cramp
Vertigo
Gastric or intestinal disorders

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

revised on: 02.02.2023

Version number 13

Creation Date: 03.02.2016

Trade name: Dichloromethane

(Contd. of page 3)

- **Hazards**
 Danger of pneumonia.
 Danger of pulmonary oedema.
 Danger of convulsion.
- **4.3 Indication of any immediate medical attention and special treatment needed**
 Give Glucocorticoid-Aerosol in case of lung irritation.
 If necessary oxygen respiration treatment.
 If swallowed, gastric irrigation.
 Later observation for pneumonia and pulmonary oedema.
 Monitor circulation.
 Symptomatic treatment.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
 Use fire extinguishing methods suitable to surrounding conditions.
 Carbon dioxide, powder, water spray or alcohol-resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet.
- **5.2 Special hazards arising from the substance or mixture**
 In case of fire, the following can be released:
 Hydrogen chloride (HCl)
 Carbon dioxides (CO, CO₂)
 Phosgene gas
 Under certain fire conditions, traces of other toxic gases cannot be excluded.
 Ambient fire may liberate hazardous vapours.
- **5.3 Advice for firefighters**
- **Protective equipment:**
 Wear fully protective suit.
 Wear self-contained respiratory protective device.
 Do not inhale explosion gases or combustion gases.
- **Additional information**
 Cool endangered receptacles with water spray.
 Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
 Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
 Wear protective equipment. Keep unprotected persons away.
 Evacuate the danger area.
 Ensure adequate ventilation.
 Provide adequate ventilation and do not vapors, dust or gases.
 Avoid contact with eyes and skin.
 Mount respiratory protective device.
 Consult an expert.
- **6.2 Environmental precautions:**
 In case of seepage into the ground inform responsible authorities.
 Do not allow to enter sewers/surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
 Cover drains.
 Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
 Dispose contaminated material as waste according to item 13.
 Ensure adequate ventilation.
 Dispose of the material collected according to regulations.
- **6.4 Reference to other sections**
 See Section 7 for information on safe handling.

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

revised on: 02.02.2023

Version number 13

Creation Date: 03.02.2016

Trade name: Dichloromethane

(Contd. of page 4)

See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Apply the general protection and hygiene measures for the handling with chemicals.
Store in cool, dry place in tightly closed receptacles.
Keep away from heat and direct sunlight.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.

· **Information about fire - and explosion protection:** No special measures required.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by storerooms and receptacles:

Prevent any seepage into the ground.
Store only in unopened original receptacles.
Store only in the original receptacle.

· **Information about storage in one common storage facility:** Store away from oxidising agents.

· Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.

· **Storage class:** 6.1 D

· **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

CAS: 75-09-2 Dichloromethane

WEL	Short-term value: 706 mg/m ³ , 200 ppm Long-term value: 353 mg/m ³ , 100 ppm BMGV, Sk
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· Ingredients with biological limit values:

CAS: 75-09-2 Dichloromethane

BMGV	30 ppm Medium: end-tidal breath Sampling time: post shift Parameter: carbon monoxide
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· **Additional information:** The lists valid during the making were used as basis.

· 8.2 Exposure controls

· **Appropriate engineering controls** No further data; see item 7.

· **Individual protection measures, such as personal protective equipment**

· General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.

· Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. If air-purifying respiratory protection is required according to the risk assessment, wear a respirator with full-face mask with combination filter (US) or with filter type ABEK (EN 14387) filter cartridge. If the respirator is the only protective measure, an ambient air self-contained breathing apparatus with a full face mask must be worn. Respirators and components must be approved to appropriate government standards (for example, NIOSH (US) or CEN (EU)). Translated with www.DeepL.com/Translator (free version)

(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31

revised on: 02.02.2023

Version number 13

Creation Date: 03.02.2016

Trade name: Dichloromethane

(Contd. of page 5)

· Hand protection

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Fluorocarbon rubber (Viton)

Material thickness > 0,7 mm

· Penetration time of glove material

Level 3 for application up to 120 min

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye/face protection

Tightly sealed goggles

· Body protection:

Protective work clothing (e. g. safety shoes EN ISO 20345, long-sleeved protective working garments).

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties**· General Information****· Physical state**

Fluid

· Colour:

Colourless

· Odour:

Characteristic

· Melting point/freezing point:

-95.1 °C

· Boiling point or initial boiling point and boiling range

40 °C

· Flammability

Not applicable.

· Lower and upper explosion limit**· Lower:**

13 Vol %

· Upper:

22 Vol %

· Flash point:

Not applicable.

· Ignition temperature:

605 °C

· Decomposition temperature:

Not determined.

· pH

2,0 - 4,0 (Solution 10%, potentiometric)

· Viscosity:**· Kinematic viscosity**

Not determined.

· Dynamic at 20 °C:

0.43 mPas

· Solubility**· water at 20 °C:**

20 g/l

· Partition coefficient n-octanol/water (log value)

0.09691

· Vapour pressure at 20 °C:

453 hPa

· Density and/or relative density**· Density at 20 °C:**1.33 g/cm³

Not determined.

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

revised on: 02.02.2023

Version number 13

Creation Date: 03.02.2016

Trade name: Dichloromethane

(Contd. of page 6)

· Relative density	Not determined.
· Vapour density	Not determined.
· 9.2 Other information	
· Appearance:	
· Form:	Fluid
· Important information on protection of health and environment, and on safety.	
· Auto-ignition temperature:	Not determined.
· Explosive properties:	Product does not present an explosion hazard.
· Molecular weight	84.93 g/mol
· Change in condition	
· Evaporation rate	Not determined.
· Information with regard to physical hazard classes	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Void
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability** Stable with proper storage and handling.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions**
Violent reactions with strong alkalis and oxidising agents.
Reacts with alkaline metals.
Reacts with powdered metals.
Reacts with peroxides.
Reacts with alkali (lyes).
Reacts with earth alkaline metals.
- **10.4 Conditions to avoid** Heat, flames and sparks
- **10.5 Incompatible materials:** Avoid contact with other chemicals.
- **10.6 Hazardous decomposition products:** On fire: see chapter 5

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

(Contd. on page 8)

E

Safety data sheet

according to 1907/2006/EC, Article 31

revised on: 02.02.2023

Version number 13

Creation Date: 03.02.2016

Trade name: Dichloromethane

(Contd. of page 7)

· LD/LC50 values relevant for classification:

Oral LD50 1,600 mg/kg (rat)

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Suspected of causing cancer.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **11.2 Information on other hazards**
- **Endocrine disrupting properties** Substance is not listed.

SECTION 12: Ecological information**· 12.1 Toxicity****· Aquatic toxicity:**

EC50 1,470 mg/l /48 h (Cru)

- **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.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**
The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **Remark:**
Toxic for fish
Toxic for water fleas
Toxic for algae
- **Additional ecological information:**
- **General notes:**
Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.

SECTION 13: Disposal considerations**· 13.1 Waste treatment methods**

Observe local (country-specific) regulations and laws

This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Chemicals must be disposed of in compliance with the respective national regulations.

· European waste catalogue

16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 05 00	gases in pressure containers and discarded chemicals
16 05 06*	laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals
HP7	Carcinogenic

(Contd. on page 9)

Safety data sheet

according to 1907/2006/EC, Article 31

revised on: 02.02.2023

Version number 13



Creation Date: 03.02.2016

Trade name: Dichloromethane

(Contd. of page 8)

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

<ul style="list-style-type: none"> · 14.1 UN number or ID number · ADR, IMDG, IATA 	UN1593
<ul style="list-style-type: none"> · 14.2 UN proper shipping name · ADR · IMDG, IATA 	1593 DICHLOROMETHANE DICHLOROMETHANE
<ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · ADR <div style="text-align: center; margin: 10px 0;">  </div> <ul style="list-style-type: none"> · Class · Label 	6.1 (T1) Toxic substances. 6.1
<ul style="list-style-type: none"> · IMDG, IATA <div style="text-align: center; margin: 10px 0;">  </div> <ul style="list-style-type: none"> · Class · Label 	6.1 Toxic substances. 6.1
<ul style="list-style-type: none"> · 14.4 Packing group · ADR, IMDG, IATA 	III
<ul style="list-style-type: none"> · 14.5 Environmental hazards: 	Not applicable.
<ul style="list-style-type: none"> · 14.6 Special precautions for user · Hazard identification number (Kemler code): · EMS Number: · Segregation groups · Stowage Category 	Warning: Toxic substances. 60 F-A,S-A (SGG10) Liquid halogenated hydrocarbons A
<ul style="list-style-type: none"> · 14.7 Maritime transport in bulk according to IMO instruments 	Not applicable.
<ul style="list-style-type: none"> · Transport/Additional information: 	
<ul style="list-style-type: none"> · ADR · Limited quantities (LQ) · Excepted quantities (EQ) 	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<ul style="list-style-type: none"> · Transport category · Tunnel restriction code 	2 E
<ul style="list-style-type: none"> · IMDG · Limited quantities (LQ) · Excepted quantities (EQ) 	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

(Contd. on page 10)

E

Safety data sheet

according to 1907/2006/EC, Article 31

revised on: 02.02.2023

Version number 13

Creation Date: 03.02.2016

Trade name: Dichloromethane

(Contd. of page 9)

· UN "Model Regulation":	UN 1593 DICHLOROMETHANE, 6.1, III
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SECTION 15: Regulatory information

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

· Inventory of Hazardous Chemicals

CAS: 75-09-2	Dichloromethane
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- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** Substance is not listed.
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 59
- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**
Substance is not listed.
- **REGULATION (EU) 2019/1148**
- **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**
Substance is not listed.
- **Annex II - REPORTABLE EXPLOSIVES PRECURSORS** Substance is not listed.
- **Regulation (EC) No 273/2004 on drug precursors** Substance is not listed.
- **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**
Substance is not listed.
- **National regulations:**
- **Information about limitation of use:**
Employment restrictions concerning juveniles must be observed.
Employment restrictions concerning pregnant and lactating women must be observed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
Application, use and handling of our products take place out of our control and are solely your responsibility.

- **Department issuing SDS:** Product management
- **Contact:** Product management
- **Abbreviations and acronyms:**
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Carc. 2: Carcinogenicity – Category 2
- *** Data compared to the previous version altered.**

(Contd. on page 11)

Safety data sheet

according to 1907/2006/EC, Article 31

revised on: 02.02.2023

Version number 13

Creation Date: 03.02.2016

Trade name: Dichloromethane

(Contd. of page 10)

Annex: Exposure scenario

- **Short title of the exposure scenario** Chemicals for Laboratory and industrial use
- **Sector of Use** SU5 Manufacture of textiles, leather, fur
- **Product category**
 - PC9a Coatings and paints, thinners, paint removers
 - PC9c Finger paints
 - PC9b Fillers, putties, plasters, modelling clay
 - PC1 Adhesives, sealants
 - PC20 Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents
 - PC35 Washing and cleaning products (including solvent based products)
 - PC37 Water treatment chemicals
 - PC40 Extraction agents
 - PC29 Pharmaceuticals
 - PC21 Laboratory chemicals
- **Process category**
 - PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.
 - PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
 - PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition
 - PROC4 Chemical production where opportunity for exposure arises
 - PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities
 - PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
 - PROC5 Mixing or blending in batch processes
 - PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)
 - PROC15 Use as laboratory reagent
 - PROC7 Industrial spraying
 - PROC11 Non industrial spraying
 - PROC12 Use of blowing agents in manufacture of foam
 - PROC13 Treatment of articles by dipping and pouring
 - PROC10 Roller application or brushing
- **Environmental release category**
 - ERC2 Formulation into mixture
 - ERC6a Use of intermediate
 - ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)
 - ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
 - ERC1 Manufacture of the substance
 - ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
 - ERC7 Use of functional fluid at industrial site
- **Description of the activities / processes covered in the Exposure Scenario**
See section 1 of the annex to the Safety Data Sheet.
- **Conditions of use**
- **Duration and frequency** 5 workdays/week.
- **Worker** Occasional application with short-time exposure.
- **Environment** The product must not enter the sewage system or the aquatic environment.
- **Physical parameters**
- **Physical state** Fluid
- **Concentration of the substance in the mixture** Raw material.
- **Other operational conditions** Observe the general safety regulations when handling chemicals.
- **Other operational conditions affecting environmental exposure**
Observe section 6 of the Safety Data Sheet (Accidental release measures).
- **Other operational conditions affecting worker exposure**
Observe section 6 of the Safety Data Sheet (Accidental release measures).
Ensure adequate ventilation, especially in closed rooms.
Avoid contact with the skin.
Avoid contact with eyes.
Do not breathe the gas/vapour/aerosol.

(Contd. on page 12)

Safety data sheet

according to 1907/2006/EC, Article 31

revised on: 02.02.2023

Version number 13

Creation Date: 03.02.2016

Trade name: Dichloromethane

(Contd. of page 11)

- Indoor application.
- Outdoor application.
- **Other operational conditions affecting consumer exposure** Keep out of the reach of children.
- **Other operational conditions affecting consumer exposure during the use of the product** Not applicable.
- **Risk management measures**
- **Worker protection** Observe sections 7.1 and 8.1–8.2 of the safety data sheet.
- **Organisational protective measures**
 - Consider section 4 of the Safety Data Sheet (First aid measures).
 - Employment restrictions concerning juveniles must be observed.
 - Employment restrictions concerning pregnant and lactating women must be observed.
 - Provide Internal Plant Instruction.
- **Technical protective measures** Ensure that suitable extractors are available on processing machines
- **Personal protective measures** Do not inhale gases / fumes / aerosols.
- **Measures for consumer protection**
 - Ensure adequate labelling.
 - Keep locked up and out of the reach of children.
- **Environmental protection measures**
- **Water** Do not allow to reach ground water, water bodies or sewage system.
- **Soil** Prevent contamination of soil.
- **Notes** In case of unintended release of the product: See section 6 of the Safety Data Sheet.
- **Disposal measures** Ensure that waste is collected and contained.
- **Disposal procedures**
 - Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Waste type** Partially emptied and uncleaned packaging
- **Exposure estimation**
- **Worker (oral)** Detailed information on the exposure estimation can be found at <http://www.ecetoc.org/tra>.
- **Worker (dermal)** Detailed information on the exposure estimation can be found at <http://www.ecetoc.org/tra>.
- **Worker (inhalation)** Detailed information on the exposure estimation can be found at <http://www.ecetoc.org/tra>.
- **Environment**
 - Detailed information on the estimation of the environmental exposure can be found at <http://ecb.jrc.ec.europa.eu/euses/>.
- **Consumer** Not relevant for this Exposure Scenario.
- **Guidance for downstream users** No further relevant information available.

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