

## Safety data sheet

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according to 1907/2006/EC, Article 31

Printing date 01.07.2021 Revision: 01.07.2021 Version number 10.01 (replaces version 10.00)

SECTION 1: Identification of the substance undertaking	e/mixture and of the company/
· 1.1 Product identifier	
· Trade name: <u>dichloromethane</u>	
<ul> <li>Article number: 1254</li> <li>CAS Number: 75-09-2</li> <li>EC number: 200-838-9</li> <li>Index number: 602-004-00-3</li> <li>Application of the substance / the mixture Laboratory chemical statements and the substance / the mixture statements and the substance / the substance / the mixture statements and the substance / the mixture statements and the substance / the su</li></ul>	emicals
<ul> <li>1.3 Details of the supplier of the safety data sheet</li> <li>Manufacturer/Supplier: PANREAC QUIMICA S.L.U. C/Garraf 2 Polígono Pla de la Bruguera E-08211 Castellar del Vallès (Barcelona)</li> </ul>	Tel. (+34) 937 489 400 Fax. (+34) 937 489 401 e-mail: product.safety@panreac.com
<b>Further information obtainable from:</b> email: product.safet <b>1.4 Emergency telephone number:</b> Single telephone number for emergency calls: 112 (EU) Tel.: (+34) 937 489 499	y@panreac.com
SECTION 2: Hazards identification	
<ul> <li>2.1 Classification of the substance or mixture</li> <li>Classification according to Regulation (EC) No 1272/200</li> </ul>	18

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 CLP regulation.
 • Hazard pictograms



Signal word Warning
 Hazard statements
 H351 Suspected of causing cancer.

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- · 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/hearing 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
- 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: Involve doctor immediately.

· After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

Take affected persons into fresh air and keep quiet.

- After skin contact: Call a doctor immediately.
   Immediately wash with water and soap and rinse thoroughly.
   Immediately remove any clothing soiled by the product.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Rinse out mouth.

Do not induce vomiting; call for medical help immediately. Subsequently administer: activated charcoal (20 - 40 g in 10 % slurry)

- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

## **SECTION 5: Firefighting measures**

5.1 Extinguishing media
Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
5.2 Special hazards arising from the substance or mixture In case of fire, the following can be released: Carbon monoxide and carbon dioxide Hydrogen chloride (HCI) Phosgene gas Non-combustible.

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Trade name: dichloromethane

5.3 Advice for firefighters

· Protective equipment: Wear self-contained respiratory protective device.

## · Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Contain escaping vapours with water.

### **SECTION 6: Accidental release measures**

· 6.1 Personal precautions, protective equipment and emergency procedures Avoid substance contact.

Do not inhale steams/aerosols.

- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. Clean up affected area.
- · 6.4 Reference to other sections See Section 7 for information on safe handling. 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 Ensure good ventilation/exhaustion at the workplace. · Information about fire - and explosion protection: The product is not flammable.

#### · 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Open receptacle only under localised extractor facilities.

Store receptacle in a well ventilated area.

Store under lock and key and with access restricted to technical experts or their assistants only. Keep container sealed.

• Recommended storage temperature: < 15°C

· 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:

75-09-2 dichloromethane

WEL Short-term value: 706 mg/m<sup>3</sup>, 200 ppm Long-term value: 353 mg/m<sup>3</sup>, 100 ppm BMGV, Sk

·	DNELs
	-

DNELS			
Dermal	Long-term - local effects, worker	4,750 mg/kg	
	Acute - local effects, general population	2,395 mg/kg	
Inhalative	Acute - local effects, worker	706 mg/m3	
	Long-term - local effects, worker	353 mg/m3	
	Acute - local effects, general population	353 mg/m3	
		10	Contd on nor

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	Long-term - local effects, general popula	(Contd. of page	
	c compartment - freshwater	0.54 mg/L	
-	•	0.194 mg/L	
Aquatic compartment - water, intermittent releases 0.27 mg/L			
Aquatic compartment - sediment in freshwater 0.972 mg/kg			
Aquatic compartment - sediment in marine water 0.349 mg/kg			
	trial compartment - soil	0.972 mg/kg	
	e treatment plant	26 mg/L	
-	lients with biological limit values:		
	2 dichloromethane		
BMGV	30 ppm Medium: end-tidal breath Sampling time: post shift Parameter: carbon monoxide		
Additio	onal information: The lists valid during the r	naking were used as basis.	
· 8.2 Fx	posure controls		
Do not Immed • <b>Respir</b>	hands before breaks and at the end of work. inhale gases / fumes / aerosols. liately remove all soiled and contaminated clo ratory protection:	othing	
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· Body protection:

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Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazourdous substances handled.

# SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical	properties
General Information	
<sup>•</sup> Physical state	Fluid
Colour:	Colourless
· Odour:	Sweetish
· Odour threshold:	Not determined.
<ul> <li>Melting point/freezing point:</li> </ul>	-95 °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.
• Auto-ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
· pH	Not determined.
· 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)	
· Vapour pressure at 20 °C:	475 hPa
· Density and/or relative density	
· Density at 20 °C:	1.33 g/cm³
· 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.	
· Ignition temperature:	605 °C
Explosive properties:	Product does not present an explosion hazard.
· Solvent content:	r rouder does not present an explosion nazalu.
· VOC (EC)	100 %
· 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
	(Contd. on page 6)

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Trade name: dichloromethane

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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
- · Thermal decomposition / conditions to be avoided: heating light.
- · 10.3 Possibility of hazardous reactions Forms explosive gas mixture with air.
- 10.4 Conditions to avoid
- Heating
- Moisture
- · 10.5 Incompatible materials: strong oxidants alkali metals
- alkaline earth metals
- · 10.6 Hazardous decomposition products: In the event of 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.
- · LD/LC50 values relevant for classification:
- Quantitative data on the toxicological effect of this product are not available.

· Compon	ents	Туре	Value	Species
Oral L	D50	>2,000 mg/kg (rat)		
Dermal L	.D50	>2,000 mg/kg (rat)		
<ul> <li>Serious e</li> <li>After inha</li> <li>Respirate</li> </ul>	eye da alatio ory o	amage/irritation Based o on: No irritant effect. r skin sensitisation Base	on available ed on availa	the classification criteria are not met. data, the classification criteria are not met. ble data, the classification criteria are not met.
<ul> <li>Carcinog</li> <li>Suspecte</li> </ul>	<b>jenici</b> d of c	ty ausing cancer.	ŗ	he classification criteria are not met.
STOT-sir STOT-rep	ngle e peate	exposure Based on availand exposure Based on availand exposure Based on av	able data, th ailable data	e classification criteria are not met. ne classification criteria are not met. n, the classification criteria are not met. nssification criteria are not met.
· 11.2 Info	rmati	on on other hazards		

aocrine disrupting properties List in

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lgae) phnia magna) sh) <b>degradability</b> No <b>potential</b> <3 log o further relevant <b>nd vPvB assess</b>	Pow information a	vant information a available.	available.	
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information:				
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i i	ocrine disrupting fects information: reach ground wa German Regulation	ocrine disrupting properties se fects information: reach ground water, water co German Regulation) (Assessn	ocrine disrupting properties see section 11. fects information: reach ground water, water course or sewage s	ocrine disrupting properties see section 11. fects information: reach ground water, water course or sewage system. German Regulation) (Assessment by list): hazardous for wate

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

#### · Uncleaned packaging:

Recommendation:

Disposal must be made according to official regulations.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport informa	ition	
<ul> <li>14.1 UN number or ID number</li> <li>ADR, IMDG, IATA</li> </ul>	UN1593	
<ul> <li>14.2 UN proper shipping name</li> <li>ADR, IMDG, IATA</li> </ul>	DICHLOROMETHANE	
· 14.3 Transport hazard class(es)		
ADR		
· Class	6.1 (T1) Toxic substances.	
		(Contd. on page 8)

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Trade name: dichloromethane (Contd. of page 7) · Label 6.1 · IMDG, IATA 6.1 Toxic substances. · Class · Label 6.1 · 14.4 Packing group · ADR, IMDG, IATA Ш · 14.5 Environmental hazards: Not applicable. 14.6 Special precautions for user Warning: Toxic substances. · Hazard identification number (Kemler code): 60 · EMS Number: F-A,S-A Liquid halogenated hydrocarbons • Segregation groups Stowage Category А · 14.7 Maritime transport in bulk according to **IMO** instruments Not applicable. · Transport/Additional information: · ADR · Limited quantities (LQ) 5L · Excepted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml · Transport category 2 · Tunnel restriction code Е ·IMDG · Limited quantities (LQ) 5L • Excepted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml UN 1593 DICHLOROMETHANE, 6.1, III • UN "Model Regulation":

#### **SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- $\cdot$  Named dangerous substances ANNEX I Substance is not listed.
- · National regulations:
- · Other regulations, limitations and prohibitive regulations
- Substances of very high concern (SVHC) according to REACH, Article 57 Substance is not listed.
- 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.

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<ul> <li>Abbreviations and acronyms:         <ul> <li>ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)</li> <li>IMDG: International Maritime Code for Dangerous Goods</li> <li>IATA: International Air Transport Association</li> <li>GHS: Globally Harmonised System of Classification and Labelling of Chemicals</li> <li>EINECS: European Inventory of Existing Commercial Chemical Substances</li> <li>CAS: Chemical Abstracts Service (division of the American Chemical Society)</li> <li>VOC: Volatile Organic Compounds (USA, EU)</li> <li>DNEL: Derived No-Effect Level (REACH)</li> <li>PNEC: Predicted No-Effect Concentration (REACH)</li> <li>LC50: Lethal concentration, 50 percent</li> <li>PBT: Persistent, Bioaccumulative and Toxic</li> <li>SVHC: Substances of Very High Concern</li> <li>vPvB: very Persistent and very Bioaccumulative</li> <li>Carc. 2: Carcinogenicity – Category 2</li> </ul> </li> <li>* Data compared to the previous version altered.</li> </ul>
Annov: Exposure scenario
Annex: Exposure scenario
· Short title of the exposure scenario Formulation and packing/repacking of substances and mixtures
Description of the activities / processes covered in the Exposure Scenario
See section 1 of the annex to the Safety Data Sheet. • <b>Conditions of use</b>
· Duration and frequency 5 workdays/week.
· Physical parameters
· Physical state Fluid
· Concentration of the substance in the mixture Raw material.
Other operational conditions
<ul> <li>Other operational conditions affecting environmental exposure No special measures required.</li> <li>Other operational conditions affecting consumer exposure No special measures required.</li> </ul>
• Other operational conditions affecting consumer exposure during the use of the product
Not applicable.
Risk management measures
Worker protection
• Organisational protective measures No special measures required.
<ul> <li>Technical protective measures</li> <li>Ensure that suitable extractors are available on processing machines</li> </ul>
· Personal protective measures Do not inhale gases / fumes / aerosols.
• Measures for consumer protection Ensure adequate labelling.
· Environmental protection measures
Water No special measures required.
Disposal measures Ensure that waste is collected and contained.
<ul> <li>Disposal procedures</li> <li>Must not be disposed together with household garbage. Do not allow product to reach sewage system.</li> </ul>
• Waste type Partially emptied and uncleaned packaging
· Exposure estimation
• Consumer Not relevant for this Exposure Scenario.
• Guidance for downstream users No further relevant information available.
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