

Version number 11

Printing date 27.09.2019

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SECTION 1: Identification of the substance/mixtur undertaking	re and of the company/
· 1.1 Product identifier	
<ul> <li>Trade name: Polyamin Test Reagenz C</li> <li>CAS Number: 75-09-2</li> <li>EC number: 200-838-9</li> <li>Index number: 602-004-00-3</li> <li>Registration number 01-2119480404-41</li> <li>UFI: 99XQ-R4QU-100V-241W</li> <li>1.2 Relevant identified uses of the substance or mixture and use No further relevant information available.</li> <li>Application of the substance / the preparation: Reagent for analysis EuPCS: PC-TEC-19 Reagents and laboratory chemical</li> <li>1.3 Details of the supplier of the safety data sheet</li> <li>Manufacturer/Supplier: Gebrüder Heyl Analysentechnik GmbH &amp; Co. KG Orleansstraße 75 b D-31135 Hildesheim</li> <li>Further information obtainable from: product safety department</li> </ul>	es advised against Phone +49 (0) 5121 2893390 Fax +49 (0) 5121 2893367 E-mail info@heyl.de Internet www.heyl.de
• <b>1.4 Emergency telephone number:</b> Giftinformationszentrum Nord	
Phone +49 (0) 551 19240	
Phone +49 (0) 551 19240           SECTION 2: Hazards identification           • 2.1 Classification of the substance or mixture	
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Phone +49 (0) 551 19240 SECTION 2: Hazards identification 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 $\overbrace{OO}$ GHS08 health hazard Carc. 2 H351 Suspected of causing cancer. $\overbrace{OO}$ GHS07 Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2 H315 Causes skin irritation. STOT SE 3 H336 May cause drowsiness or dizziness. 2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 The substance is classified and labelled according to the CLP regula Hazard pictograms $\overbrace{OHS07}$ GHS07	tion.
Phone +49 (0) 551 19240 SECTION 2: Hazards identification • 2.1 Classification of the substance or mixture • Classification according to Regulation (EC) No 1272/2008 • • • • • • • • • • • • • • • • • • •	tion.

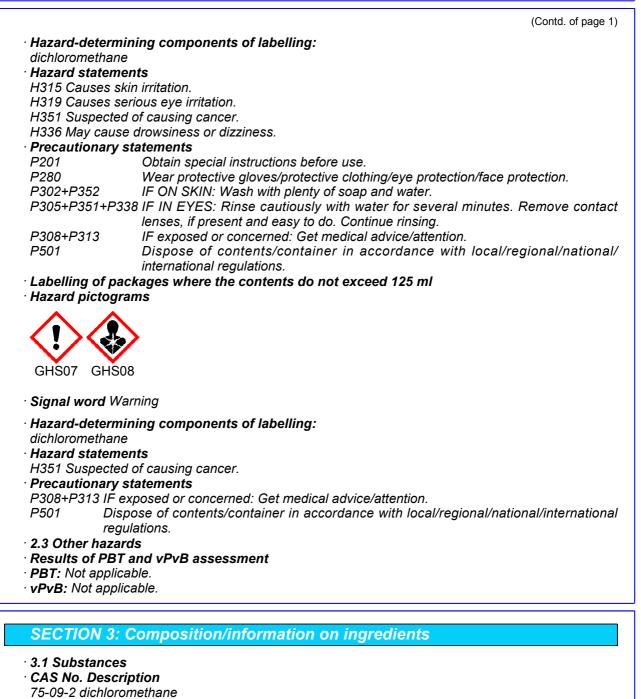


# Safety data sheet according to 1907/2006/EC

Version number 11

Revision: 26.09.2019

## Trade name: Polyamin Test Reagenz C



- · Identification number(s)
- EC number: 200-838-9
- · Index number: 602-004-00-3
- SVHC Not applicable.

## SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation:
- Take affected persons into fresh air and keep quiet. Supply fresh air or oxygen; call for doctor.

(Contd. on page 3)

EU



# Safety data sheet according to 1907/2006/EC

Version number 11

Revision: 26.09.2019

## Trade name: Polyamin Test Reagenz C

<ul> <li>After skin contact: Immediately wash with v If skin irritation continues</li> <li>After eye contact:</li> </ul>	ness place patient stably in side position for transportation. water and soap and rinse thoroughly.	ontd. of page 2)
Rinse out mouth and the Do not induce vomiting; • <b>4.2 Most important syn</b> Breathing difficulty	laying on their back should be turned onto their side.	
	<b>mmediate medical attention and special treatment needed</b> of vomiting, danger of entering the lungs.	
SECTION 5: Firefig	ahting measures	
· 5.1 Extinguishing med		conditions.

5.2 Special hazards arising from the substance or mixture In case of fire, the following can be released: Hydrogen chloride (HCI)

Phosgene gas

- · 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

## SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation
- · 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:
- Ensure adequate ventilation.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of the material collected according to regulations.

• 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. Prevent formation of aerosols.

• *Information about fire - and explosion protection:* Fumes can combine with air to form an explosive mixture. Keep ignition sources away - Do not smoke.

(Contd. on page 4)

<sup>-</sup> EU



# Safety data sheet according to 1907/2006/EC

Version number 11

Revision: 26.09.2019

## Trade name: Polyamin Test Reagenz C

(Contd. of page 3)

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
- · Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions:
- Store under lock and key and with access restricted to technical experts or their assistants only. Keep container tightly sealed.
- Protect from heat and direct sunlight.
- Store receptacle in a well ventilated area.
- Recommended storage temperature: 15 25 °C
- · 7.3 Specific end use(s) No further relevant information available.

#### SECTION 8: Exposure controls/personal protection

· Additional information about design of technical facilities: No further data; see item 7.

· 8.1 Control parameters

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

CAS: 75-09-2 dichloromethane

IOELV Short-term value: 706 mg/m<sup>3</sup>, 200 ppm Long-term value: 353 mg/m<sup>3</sup>, 100 ppm Skin

Regulatory information IOELV: (EU) 2017/164

• Additional information: The lists valid during the making were used as basis.

#### · 8.2 Exposure controls

- · Personal protective equipment:
- General protective and hygienic measures:
- The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

Do not eat, drink, smoke or sniff while working.

- · Respiratory protection:
- Use suitable respiratory protective device when aerosol or mist is formed. Filter: Type AX
- Protection of hands:



Protective gloves

Wear gloves according to EN 374.

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

Check protective gloves prior to each use for their proper condition.

Preventive skin protection by use of skin-protecting agents is recommended.

After use of gloves apply skin-cleaning agents and skin cosmetics.

#### • 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.

#### Penetration time of glove material

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

(Contd. on page 5)

U



# Safety data sheet according to 1907/2006/EC

Version number 11

Revision: 26.09.2019

Trade name: Polyamin Test Reagenz C

	(Contd. of page 4)
As protection from splashes gloves made of the following materials are suita	ble:
Fluorocarbon rubber (Viton)	
Recommended thickness of the material: $\geq 0.7$ mm	
Value for the permeation: Level = 4 (> 120 min)	
Eye protection:	
Sofety alegand analyting to EN 166	

Safety glasses according to EN 166



Tightly sealed goggles according to EN 166

· Body protection: Protective work clothing

9.1 Information on basic physical and	chamical proportios
General Information	chemical properties
Appearance:	
Form:	Fluid
Colour:	Colourless
Odour:	Characteristic
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/freezing point:	-95.1 °C
Initial boiling point and boiling range	e: 40 °C
Flash point:	Undetermined.
Flammability (solid, gas):	Not applicable.
Ignition temperature:	605 °C
	Not determined.
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Not determined.
Explosive properties:	Product is not explosive. However, formation explosive air/vapour mixtures are possible.
Explosion limits:	
Lower:	13 Vol %
Upper:	22 Vol %
Vapour pressure at 20 °C:	453 hPa
Density at 20 °C:	1.33 g/cm <sup>3</sup>
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:	Not determined.
Viscosity:	
Dynamic at 20 °C:	0.43 mPas
Kinematic:	Not determined.
Organic solvents:	100.0 %



## Safety data sheet according to 1907/2006/EC

Version number 11

Revision: 26.09.2019

(Contd. of page 5)

#### Trade name: Polyamin Test Reagenz C

· 9.2 Other information

No further relevant information available.

### SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- **Thermal decomposition / conditions to be avoided:** To avoid thermal decomposition do not overheat.
- · 10.3 Possibility of hazardous reactions
- Reacts with alkaline metals.
- Reacts with powdered metals.
- Reacts with earth alkaline metals.
- Reacts with amines.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- 10.6 Hazardous decomposition products:
- Hydrogen chloride (HCl)

Phosgen

## SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- Acute toxicity Based on available data, the classification criteria are not met.

#### · LD/LC50 values relevant for classification:

CAS: 75-09-2 dichloromethane		
Oral	LD50	> 2,000 mg/kg (rat)
Dermal	LD50	> 2,000 mg/kg (rat)
Inhalative	LC50/7 h	> 2,000 mg/kg (rat) > 2,000 mg/kg (rat) 49 mg/l (mouse)

#### · Primary irritant effect:

Skin corrosion/irritation

Causes skin irritation.

- · Serious eye damage/irritation
- Causes serious eye irritation.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · 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

May cause drowsiness or dizziness.

- · 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.

#### SECTION 12: Ecological information

- · 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- **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.

(Contd. on page 7)

EU



# Safety data sheet according to 1907/2006/EC

Version number 11

Revision: 26.09.2019

## Trade name: Polyamin Test Reagenz C

(Contd. of page 6)

#### · 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.

### 12.5 Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

· 12.6 Other adverse effects No further relevant information available.

## SECTION 13: Disposal considerations

#### · 13.1 Waste treatment methods

#### · Recommendation

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

Disposal must be made according to official regulations.

#### · Uncleaned packaging:

Recommendation:

Packagings that may not be cleansed are to be disposed of in the same manner as the product. Disposal must be made according to official regulations.

14.1 UN-Number ADR, IMDG, IATA	UN1593	
14.2 UN proper shipping name	5111000	
ADR	1593 DICHLOROMETHANE	
IMDG, IATA	DICHLOROMETHANE	
14.3 Transport hazard class(es)		
ADR, IMDG, IATA		
Class	6.1 Toxic substances.	
Label	6.1	
14.4 Packing group ADR, IMDG, IATA	<i>III</i>	
14.5 Environmental hazards:		
Marine pollutant:	No	
14.6 Special precautions for user	Warning: Toxic substances.	
Danger code (Kemler):	60	
EMS Number:	F-A,S-A	
Segregation groups	Liquid halogenated hydrocarbons	
Stowage Category	A	
14.7 Transport in bulk according to Ani		
of Marpol and the IBC Code	Not applicable.	
Transport/Additional information:	Void	



Version number 11

Revision: 26.09.2019

### Trade name: Polyamin Test Reagenz C

	(Contd. of page
ADR	
· Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 100
	ml
· Transport category	2
Tunnel restriction code	E
· IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 100
	ml
UN "Model Regulation":	UN 1593 DICHLOROMETHANE, 6.1, III

## **SECTION 15: Regulatory information**

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

- · Named dangerous substances ANNEX I Substance is not listed.
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 59
- 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 not 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.

Department issuing SDS: product safety department.
 Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation ADP: Accord européen sur le transport des marchandises dangereuses par Poute (European Agreement concerning the

ADR: Accord européen sur le transport 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

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Carc. 2: Carcinogenicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

• \* Data compared to the previous version altered.

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<sup>·</sup> Directive 2012/18/EU