

## 1 Identification

### · Product identifier

- Product number CLC20
- Trade name: **Binder for solv. based stains**
- Relevant identified uses of the substance or mixture and uses advised against  
A coating composition for water-based coating and / or decoration of wooden artefacts
- Application of the substance / the mixture For professional use

### · Details of the supplier of the safety data sheet

- Manufacturer/Supplier:  
IVM Chemicals srl  
Viale della Stazione 3 - 27020 Parona (PV) Italy tel +39 038425441
- Information department:  
Environmental Health and safety office  
hseoffice@ivmchemicals.com
- Emergency telephone number:  
ChemTel Expert Assistance Hotline/SDS Fax Access by dialing 1-800-255-3924 or for International +1-813-248-0585.

## 2 Hazard(s) identification

### · Classification of the substance or mixture



GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS07

Eye Irrit. 2A H319 Causes serious eye irritation.

### · Label elements

#### · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

#### · Hazard pictograms



GHS07 GHS08

#### · Signal word Warning

#### · Hazard-determining components of labeling:

2,2'-iminodiethanol

#### · Hazard statements

H319 Causes serious eye irritation.

H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged or repeated exposure.

#### · Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P280 Wear eye protection / face protection.

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.

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P405

Store locked up.

P501

Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 1

Fire = 1

Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = \*1

Fire = 1

Reactivity = 0

### 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture: consisting of the following components.

· **Dangerous components:**

102-71-6	2,2',2''-nitrilotriethanol	5-9.99%
111-42-2	2,2'-iminodiethanol	1-2.49%
	Carc. 2, H351; STOT RE 2, H373 Eye Dam. 1, H318 Acute Tox. 4, H302; Skin Irrit. 2, H315	
55965-84-9	a mixture of: 5-chloro-2-methyl-2 H -isothiazol-3-one [EC No 247-500-7] and 2-methyl-2 H -isothiazol-3-one [EC No 220-239-6] (3:1) a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)	<0.0015%
	Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 Skin Corr. 1B, H314 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Skin Sens. 1, H317	

### 4 First-aid measures

· **Description of first aid measures**

· **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:** Generally the product does not irritate the skin.

· **After eye contact:** Rinse opened eye for several minutes under running water.

· **After swallowing:** Do not induce vomiting; immediately call for medical help.

· **Information for doctor:**

· **Most important symptoms and effects, both acute and delayed**

For symptoms and effects caused by substances, refer to Section 11.

· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

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## 5 Fire-fighting measures

- **Extinguishing media**

- *Suitable extinguishing agents: Use fire fighting measures that suit the environment.*

- **Special hazards arising from the substance or mixture**

- *Formation of toxic gases is possible during heating or in case of fire.*

- **Advice for firefighters**

- *Cool by spraying with water the containers to prevent product decomposition and the development of substances potentially hazardous for health and also, in the case of closed containers exposed to flames to prevent explosions.*

- **Protective equipment:**

- *Hardhat with visor, fireproof clothing, suitable gloves and if necessary respiratory protective device.*

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**

- *Ensure adequate ventilation*

- *Keep away from ignition sources*

- **Environmental precautions:**

- *Do not allow product to reach sewage system or any water course.*

- *Inform respective authorities in case of seepage into water course or sewage system.*

- *Do not allow to enter sewers/ surface or ground water.*

- **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 Section 13.*

- **Reference to other sections**

- *No dangerous substances are released.*

- *See Section 7 for information on safe handling.*

- *See Section 8 for information on personal protection equipment.*

- *See Section 13 for disposal information.*

## 7 Handling and storage

- **Handling:**

- *Precautions for safe handling No special precautions are necessary if used correctly.*

- *Information about protection against explosions and fires: No special measures required.*

- **Conditions for safe storage, including any incompatibilities**

- **Storage:**

- **Requirements to be met by storerooms and receptacles:**

- *Observe the label precautions, the expiration date for the use, if not indicated, is from delivery date of goods.*

- *In cases where there is no reported expiration date , it means that the product must be used within 8 months.*

- *Take on temperature greater than 5 °C*

- **Information about storage in one common storage facility: Not required.**

- **Further information about storage conditions: None.**

- **Specific end use(s)** Those typical of the product and the instructions in the data sheet if required.

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## 8 Exposure controls/personal protection

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

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

**102-71-6 2,2',2"-nitrilotriethanol**

TLV Long-term value: 5 mg/m

**111-42-2 2,2'-iminodiethanol**

REL Long-term value: 15 mg/m , 3 ppm

TLV Long-term value: 1\* mg/m , 0.2\* ppm  
Skin; \*inhalable fraction and vapor

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:** Wash hands before breaks and at the end of work.

· **Breathing equipment:** Not required.

· **Protection of hands:**

Due to missing tests no recommendation to the glove material can be given for the product.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The glove material has to be impermeable and resistant to the product .

· **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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **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.

· **Eye protection:** Goggles recommended during refilling.

## 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· **Form:**

Fluid

· **Color:**

According to product specification

· **Odor:**

Characteristic

· **Odour threshold:**

Not determined.

· **pH-value:**

Not determined.

· **Change in condition**

· **Melting point/Melting range:**

Undetermined.

· **Boiling point/Boiling range:**

100 °C (212 °F)

· **Flash point:**

100 °C (212 °F)

· **Flammability (solid, gaseous):**

Not applicable.

· **Ignition temperature:**

305 °C (581 °F)

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· <b>Decomposition temperature:</b>	Not determined.
· <b>Auto igniting:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Explosion limits:</b>	
· <b>Lower:</b>	2.1 Vol %
· <b>Upper:</b>	10.6 Vol %
· <b>Vapor pressure:</b>	Not determined.
· <b>Density at 20 °C (68 °F):</b>	1.01 g/cm (8.428 lbs/gal)
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with</b>	
· <b>Water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
· <b>Dynamic:</b>	Not determined.
· <b>Kinematic at 20 °C (68 °F):</b>	70 s (ISO 4 mm)
· <b>Oxidising properties:</b>	N.A.
· <b>Solvent content:</b>	
· <b>Water:</b>	70.9 %
· <b>VOC content:</b>	8.5 %
	85.9 g/l / 0.72 lb/gl
· <b>Solids content:</b>	20.6 %
· <b>Other information (HAPS)</b>	
111-42-2 2,2'-iminodiethanol	1-2,49%
· <b>Other information</b>	No further relevant information available.

## 10 Stability and reactivity

- **Reactivity** typical of the product as indicated in the data sheet
  - **Chemical stability** The product is stable in normal conditions of storage and use recommended
  - **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Information on toxicological effects**
  - **Acute toxicity:**

· <b>LD/LC50 values that are relevant for classification:</b>		
<b>102-71-6 2,2',2''-nitrilotriethanol</b>		
Oral	LD50	8000 mg/kg (rat/szczur/mouse/souris/Maus/ratón)

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Dermal	LD50	2001 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)
Inhalative	LC50	11800 mg/l (Fish) (96 h)
<b>111-42-2 2,2'-iminodiethanol</b>		
Oral	LD50	1600 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	12200 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)
Inhalative	LC50	55 mg/l (daphnia) (48 h)
		1460 mg/l (Fish) (96 h)

- **Primary irritant effect:**

- **on the skin:** No irritant effect.

- **on the eye:**

- Irritating effect.

- Causes serious eye irritation.

- **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:**

- Causes serious eye irritation.

- Contains 1,2-benzisothiazol-3(2H)-one, a mixture of: 5-chloro-2-methyl-2 H -isothiazol-3-one [EC No 247-500-7] and 2-methyl-2 H -isothiazol-3-one [EC No 220-239-6] (3:1) a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1). May produce an allergic reaction.

- **Carcinogenic categories**

· <b>IARC (International Agency for Research on Cancer)</b>		
102-71-6	2,2',2''-nitrilotriethanol	3
111-42-2	2,2'-iminodiethanol	2B
· <b>NTP (National Toxicology Program)</b>		
None of the ingredients is listed.		
· <b>OSHA-Ca (Occupational Safety &amp; Health Administration)</b>		
None of the ingredients is listed.		

## 12 Ecological information

- **Toxicity**

· <b>Aquatic toxicity:</b>	
<b>102-71-6 2,2',2''-nitrilotriethanol</b>	
EC50	512 mg/l (algae) (72 h)
	609.88 mg/l (daphnia) (48 h)
<b>111-42-2 2,2'-iminodiethanol</b>	
EC50	2.2 mg/l (algae) (96 h)
<b>55965-84-9 a mixture of: 5-chloro-2-methyl-2 H -isothiazol-3-one [EC No 247-500-7] and 2-methyl-2 H -isothiazol-3-one [EC No 220-239-6] (3:1) a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1)</b>	
EC50	0.1 mg/l (daphnia) (48 h)

- **Persistence and degradability** No further relevant information available.

- **Behavior in environmental systems:**

- **Bioaccumulative potential** No further relevant information available.

- **Mobility in soil** No further relevant information available.

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· **Additional ecological information:**

· **General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

· **Waste treatment methods**

· **Recommendation:**

Smaller quantities can be disposed of with household waste.

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

Hand over to hazardous waste disposers.

Dispose of contents and container in accordance with local state and federal regulations.

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

· **UN-Number**

· DOT, ADN, IMDG, IATA

Not applicable

· **UN proper shipping name**

· DOT, ADN, IMDG, IATA

Not applicable

· **Transport hazard class(es)**

· DOT, ADR, ADN, IMDG, IATA

· Class

Not applicable

· **Packing group**

· DOT, IMDG, IATA

Not applicable

· **Environmental hazards:**

· Marine pollutant:

No

· **Special precautions for user**

Not applicable.

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

· **UN "Model Regulation":**

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### 15 Regulatory information

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

Requirements of Federal Register

· SARA

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

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**· Section 313 (Specific toxic chemical listings) :**

111-42-2	2,2'-iminodiethanol	1-2,49%
1336-21-6	ammonia	<0.1%

**· TSCA (Toxic Substances Control Act):**

All ingredients are listed.

**· Proposition 65****· Chemicals known to cause cancer:**

111-42-2	2,2'-iminodiethanol	*	1-2,49%
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**· Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

**· Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

**· Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

**· Carcinogenic categories****· EPA (Environmental Protection Agency)**

None of the ingredients is listed.

**· TLV (Threshold Limit Value established by ACGIH)**

111-42-2	2,2'-iminodiethanol	A3
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**· NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

**· National regulations:**

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

**· Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 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:** IVM Chemicals Srl**· Contact:** See emergency phone**· Date of preparation / last revision** 09/18/2015 / 30**· Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Acute Tox. 3: Acute toxicity, Hazard Category 3

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

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*Skin Sens. 1: Sensitisation - Skin, Hazard Category 1**Carc. 2: Carcinogenicity, Hazard Category 2**STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2**Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1**Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1***• Sources***Directive 1999/45/EC and following amendments**Directive 67/548/EEC and following amendments and adjustments**Agency ECHA web site**INRS Fiche Toxicologique**IARC International agency for research on cancer***• \* Data compared to the previous version altered.**

US