

1 Identification

- **Product identifier**
 - *Product number* CLC20
 - *Trade name:* **Binder for water based stains**
 - *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 protective gloves/protective clothing/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.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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· **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	Carc. 2, H351; STOT RE 2, H373 Eye Dam. 1, H318 Acute Tox. 4, H302; Skin Irrit. 2, H315	1-2.49%

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.

personal protective equipment for first aid responders is recommended. (please see section 8)

· **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. If symptoms persist, consult a doctor.

· **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.

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.

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· **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:**

Dilute with plenty of water.

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.

· **Protective Action Criteria for Chemicals**

· **PAC-1:**

102-71-6	2,2',2"-nitrilotriethanol	15 mg/m3
111-42-2	2,2'-iminodiethanol	3 mg/m3

· **PAC-2:**

102-71-6	2,2',2"-nitrilotriethanol	240 mg/m3
111-42-2	2,2'-iminodiethanol	28 mg/m3

· **PAC-3:**

102-71-6	2,2',2"-nitrilotriethanol	1,500 mg/m3
111-42-2	2,2'-iminodiethanol	130 mg/m3

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:** Keep receptacle tightly sealed.

· **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:**

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.

· **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· **Protection of hands:**



Protective gloves

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:**



Tightly sealed goggles

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9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

· Form:

Fluid

· Color:

According to product specification

· Odor:

Characteristic

· Odor 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)

· Decomposition temperature:

Not determined.

· Auto igniting:

Product is not selfigniting.

· Danger of explosion:

Product does not present an explosion hazard.

· Explosion limits:

· Lower:

2.1 Vol %

· Upper:

10.6 Vol %

· Vapor pressure:

Not determined.

· Density at 20 °C (68 °F):

1.045 g/cm (8.721 lbs/gal)

· Relative density

Not determined.

· Vapor density

Not determined.

· Evaporation rate

Not determined.

· Solubility in / Miscibility with

· Water:

Fully miscible.

· Partition coefficient (n-octanol/water):

Not determined.

· Viscosity:

· Dynamic:

Not determined.

· Kinematic at 20 °C (68 °F):

40 s (ISO 4 mm)

· Oxidising properties:

N.A.

· Solvent content:

· Water:

70.9 %

· VOC content:

1.3 %

13.3 g/l / 0.11 lb/gl

· Solids content:

27.8 %

· Other information (HAPS)

111-42-2 | 2,2'-iminodiethanol

1-2,49%

· Other information

No further relevant information available.

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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:

· **LD/LC50 values that are relevant for classification:**

102-71-6 2,2',2''-nitritotriethanol

Oral	LD50	8000 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	2001 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)
Inhalative	LC50	11800 mg/l (Fish) (96 h)

111-42-2 2,2'-iminodiethanol

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)

2634-33-5 1,2-benzisothiazol-3(2H)-one

Oral	LD50	1193 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	4115 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)

· **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:**

Irritant

Causes serious eye irritation.

Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer - Cl. 1 and 2)**

102-71-6	2,2',2''-nitritotriethanol	3
111-42-2	2,2'-iminodiethanol	2B

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

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12 Ecological information

· Toxicity

· Aquatic toxicity:

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

EC50	512 mg/l (algae) (72 h)
	609.88 mg/l (daphnia) (48 h)

111-42-2 2,2'-iminodiethanol

EC50	2.2 mg/l (algae) (96 h)
------	-------------------------

2634-33-5 1,2-benzisothiazol-3(2H)-one

EC50	2.94 mg/l (daphnia) (48 h)
LC50 (96h)	2.18 mg/l (Fish)

· **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.

· 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.

· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

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

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· **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":**

Not applicable

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.

· **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%

· **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

· **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.

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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** 05/26/2017 / 51

· **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

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Acute Tox. 4: Acute toxicity . Category 4

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

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

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

Carc. 2: Carcinogenicity . Category 2

Carc. 2: Carcinogenicity . Category 2

STOT RE 2: Specific target organ toxicity (repeated exposure) . Category 2

· **Sources**

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL and following amendments

Agency ECHA web site

INRS Fiche Toxicologique

IARC International agency for research on cancer

· *** Data compared to the previous version altered.**