

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

Printing date 25.11.2022

Version number 3 (replaces version 2)

Revision: 25.11.2022

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

**- 1.1 Product identifier**

- Trade name: **CRISTALBEL -20°**

- UFI: **DT10-K03Q-M001-JW64**

**- 1.2 Relevant identified uses of the substance or mixture and uses advised against**

- Life cycle stages **PW** Widespread use by professional workers

- Sector of Use **SU22** Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

- Product category **PC35** Washing and cleaning products (including solvent based products)

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

**- Uses advised against**

The mixture is not recommended for industrial, professional and consumer applications not specified as relevant identified uses

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

**- Manufacturer/Supplier:**

MA-FRA S.p.A. a Socio Unico

Via Aquileia, 44/46

20021 Baranzate (MI) ITALIA

Tel. +39 023569981

[www.mafra.com](http://www.mafra.com)

[mafra@mafra.it](mailto:mafra@mafra.it)

**- Informing department:**

E-mail: [lab@mafra.it](mailto:lab@mafra.it)

[info@mafra.it](mailto:info@mafra.it)

**- 1.4 Emergency telephone number:** In case of accident call the emergency number 112

**SECTION 2: Hazards identification**

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

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



flame

Flam. Liq. 3 H226 Flammable liquid and vapour.

**- 2.2 Label elements**

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

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

**- Hazard pictograms**



GHS02

- Signal word **Warning**

**- Hazard statements**

H226 Flammable liquid and vapour.

**- Precautionary statements**

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280 Wear protective gloves / eye protection.

P370+P378 In case of fire: Use CO<sub>2</sub>, powder or water spray to extinguish.

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P403+P235 Store in a well-ventilated place. Keep cool.

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

**- 2.3 Other hazards****- Results of PBT and vPvB assessment****- PBT:** Not applicable.**- vPvB:** Not applicable.**SECTION 3: Composition/information on ingredients****- 3.2 Mixtures****- Description:** Mixture of substances**- Dangerous components:**

CAS: 64-17-5	ethanol	 Flam. Liq. 2, H225	20-30%
EINECS: 200-578-6			
Reg.nr.: 01-2119457610-43			

**- Additional information** For the wording of the listed hazard phrases refer to section 16.**SECTION 4: First aid measures****- 4.1 Description of first aid measures****- General information** No special measures required.**- After inhalation** Supply fresh air; consult doctor in case of symptoms.**- After skin contact** The product is not skin irritating.**- After eye contact** Rinse opened eye for several minutes under running water.**- After swallowing** Rinse out mouth and then drink plenty of water.**- 4.2 Most important symptoms and effects, both acute and delayed**

Sickness

No further relevant information available.

**- 4.3 Indication of any immediate medical attention and special treatment needed**

If swallowed, gastric irrigation

Medical supervision for at least 48 hours

**SECTION 5: Firefighting measures****- 5.1 Extinguishing media****- Suitable extinguishing agents**

CO2. Do not use water.

Use fire fighting measures that suit the environment.

**- For safety reasons unsuitable extinguishing agents** Water.**- 5.2 Special hazards arising from the substance or mixture**

Can be released in case of fire

Carbon monoxide (CO)

**- 5.3 Advice for firefighters****- Protective equipment:**

Do not inhale explosion gases or combustion gases.

Protection means for respiratory tract

**- Additional information**

Cool endangered containers with water spray jet.

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

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### SECTION 6: Accidental release measures

#### - 6.1 Personal precautions, protective equipment and emergency procedures

Bring persons out of danger.

Particular danger of slipping on leaked/spilled product.

Keep away from ignition sources

Protective gloves. (EN 374)

#### - For non-emergency personnel

Ensure adequate ventilation

Keep away from ignition sources

Wear protective clothing.

#### - For emergency responders

PVC gloves

Recommended thickness of the material:  $\geq 0.1$  mm

Nitrile rubber, NBR

#### - 6.2 Environmental precautions:

Dilute with much water.

Do not allow to enter drainage system, 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 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 information on disposal.

### SECTION 7: Handling and storage

#### - 7.1 Precautions for safe handling

No special precautions necessary if used correctly.

Take off immediately all contaminated clothing

Wash hands during breaks and at the end of the work.

Do not eat, drink or smoke while working.

#### - Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect from heat.

Protect against electrostatic charges.

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

##### - Storage

- Requirements to be met by storerooms and containers: Store only in the original container.

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

- Further information about storage conditions: Keep container tightly sealed.

- Class according to regulation on inflammable liquids: Void

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

### SECTION 8: Exposure controls/personal protection

#### - 8.1 Control parameters

#### - Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

#### - DNELs

##### 64-17-5 ethanol

Oral	Systemic Long-term Effects	87 mg/Kg bw/day (Consumers)
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Dermal	Systemic long-term effects	343 mg/Kg bw/day (Industrial Workers) 206 mg/Kg bw/day (Consumers)
	Inhalative	Local short-term effects Systemic long-term effects
		1,900 mg/m <sup>3</sup> (Industrial Workers) 950 mg/m <sup>3</sup> (Industrial Workers) 114 mg/m <sup>3</sup> (Consumers)

**- PNECs****64-17-5 ethanol**

PNEC STP	580 mg/L (STP)
Soil	0.63 mg/Kg (Soil)
Soft Water	0.96 mg/L (Water)
Sea water	0.79 mg/L (Water)
Sediment (soft water)	3.6 mg/Kg (Soil)
Sediment (sea water)	2.9 mg/Kg (Soil)

**- Additional information:** The lists that were valid during the compilation 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** Wash hands during breaks and at the end of the work.

**- Breathing equipment:** Not required.

**- Hand protection**



Protective gloves. (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

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

**- Material of gloves**

PVC gloves

Recommended thickness of the material:  $\geq 0.1$  mm

Nitrile rubber, NBR

**- Penetration time of glove material**

For the mixture of chemicals mentioned below the penetration time has to be at least 15 minutes (Permeation according to EN 16523-1:2015: Level 1).

**- Eye/face protection**

Tightly sealed safety glasses.

**- Environmental exposure controls** Disposal must be made according to official regulations.

## SECTION 9: Physical and chemical properties

**- 9.1 Information on basic physical and chemical properties****- General Information**

**- Physical state**

Fluid

**- Colour:**

Blue

**- Odour:**

Pleasant

**- Odour threshold:**

Not determined.

**- Melting point/freezing point:**

-20 °C

**- Boiling point or initial boiling point and boiling range**

78 °C

**- Flammability**

Flammable.

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<b>- Lower and upper explosion limit</b>	
- Lower:	3.5 Vol %
- Upper:	15 Vol %
- Flash point:	32°C
- Ignition temperature:	425 °C
- Decomposition temperature:	Not determined.
- pH at 20 °C	9
- Viscosity:	
- Kinematic viscosity	Not determined.
- dynamic:	Not determined.
- Solubility	
- Water:	Fully miscible
- Partition coefficient n-octanol/water (log value)	Not determined.
- Vapour pressure:	Not determined.
- Density and/or relative density	
- Density at 20 °C	0.96 g/cm <sup>3</sup>
- Relative density	Not determined.
- Vapour density	Not determined.

<b>- 9.2 Other information</b>	
- Appearance:	
- Form:	Fluid
<b>- Important information on protection of health and environment, and on safety.</b>	
- Self-inflammability:	Product is not selfigniting.
- Explosive properties:	Product is not explosive. However, formation of explosive air/steam mixtures is possible.
- Change in condition	
- Evaporation rate	Not determined.

<b>- Information with regard to physical hazard classes</b>	
- Explosives	Void
- Flammable gases	Void
- Aerosols	Void
- Oxidising gases	Void
- Gases under pressure	Void
- Flammable liquids	Flammable liquid and vapour.
- 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 Stable under normal conditions
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions Flammable
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: Flammable

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**- 10.6 Hazardous decomposition products:** No dangerous decomposition products known**SECTION 11: Toxicological information****- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****- Acute toxicity****- LD/LC50 values that are relevant for classification:****64-17-5 ethanol**

Oral	LD50	3,400 mg/Kg (Mouse)
		>2,000 mg/Kg (Rat)
Dermal	LD50	17,100 mg/Kg (Rabbit)

**- 11.2 Information on other hazards****- Endocrine disrupting properties**

1222-05-5	Abbalide	List II
1506-02-1	1-(5,6,7,8-Tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one (Fixolid)	List II

**SECTION 12: Ecological information****- 12.1 Toxicity****- Aquatic toxicity:****64-17-5 ethanol**

LC50 (4 h)	20,000 mg/L (Rat)
LC50 (96h)	>10,000 mg/L (Fish)
EC50 (48h)	12,340 mg/L (Daphnia)
EC50 (72h)	275 mg/L (Algae)

**- 12.2 Persistence and degradability** The contained surfactants are easily biodegradable**- 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** For information on endocrine disrupting properties see section 11.**- 12.7 Other adverse effects****- Additional ecological information:****- General notes:**

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

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

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

**SECTION 13: Disposal considerations****- 13.1 Waste treatment methods****- Recommendation**

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

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

### SECTION 14: Transport information

- 14.1 UN number or ID number - ADR, IMDG, IATA	UN1170
- 14.2 UN proper shipping name - ADR, IMDG, IATA	ETHANOL
- 14.3 Transport hazard class(es) - ADR, IMDG, IATA	
- Class - Label	3 Flammable liquids. 3
- 14.4 Packing group - ADR, IMDG, IATA	III
- 14.5 Environmental hazards: - Marine pollutant:	No
- 14.6 Special precautions for user - Kemler Number: - EMS Number: - Stowage Category	Warning: Flammable liquids. 30 F-E, S-E A
- 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
- Transport/Additional information: - ADR - Limited quantities (LQ) - Excepted quantities (EQ)  - Transport category - Tunnel restriction code - IMDG - Limited quantities (LQ) - Excepted quantities (EQ)	Not dangerous according to the above specifications.  5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml  3 D/E  5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

### SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- Seveso category P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- National regulations
- Classification according to VbF: Void

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**- Technical instructions (air):**

Class	Share in %
NK	29.0

- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

**- Relevant phrases***H225 Highly flammable liquid and vapour.***- Department issuing data specification sheet:** *Ma-Fra Laboratories***- Contact:** *lab@mafra.it***- 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**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**ELINCS: European List of Notified Chemical Substances**CAS: Chemical Abstracts Service (division of the American Chemical Society)**VbF: Verordnung über brennbare Flüssigkeiten, Österreich (Ordinance on the storage of combustible liquids, Austria)**DNEL: Derived No-Effect Level (UK REACH)**PNEC: Predicted No-Effect Concentration (UK REACH)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**PBT: Persistent, Bioaccumulative and Toxic**vPvB: very Persistent and very Bioaccumulative**Flam. Liq. 2: Flammable liquids – Category 2**Flam. Liq. 3: Flammable liquids – Category 3***- \* Data compared to the previous version altered.**