

**Safety data sheet**  
according to 2020/878/EC

Printing date 08.09.2023

Version number 1

Revision: 08.09.2023

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

- **1.1 Product identifier**
- **Trade name:** NITIDO
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Life cycle stages**
  - C Consumer use
  - PW Widespread use by professional workers
- **Sector of Use**
  - SU21 Consumer uses: Private households / general public / consumers
  - SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- **Product category** PC35 Washing and cleaning products (including solvent based products)
- **Recommended use** Glass Cleaner
- **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
  - mafra@mafra.it
- **Informing department:** 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**
  - The product is not classified as hazardous according to the GB CLP Regulation.
- **Additional information:**
  - The mixture does not support combustion: although the flash point is <60°C, it is not classified as flammable according to the provisions of section 2.6.4.5 of Regulation (EC) No 1272/2008.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Additional information:**
  - Keep out of the reach of children
- **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: 67-63-0	propan-2-ol	5-<10%
EINECS: 200-661-7	⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	
Reg.nr.: 01-2119457558-25		

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CAS: 107-98-2 EINECS: 203-539-1 Reg.nr.: 01-2119457435-35	1-methoxypropan-2-ol Flam. Liq. 3, H226; STOT SE 3, H336	3-5%
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**- Regulation (EC) No 648/2004**

non-ionic surfactants, perfumes

&lt;5%

**- Additional information** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

**- 4.2 Most important symptoms and effects, both acute and delayed**

Sickness

No further relevant information available.

**- 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** In case of persistent symptoms consult doctor.**- 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**CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

Use fire fighting measures that suit the environment.

**- 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.

### SECTION 6: Accidental release measures

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

Particular danger of slipping on leaked/spilled product.

Protective gloves. (EN 374)

**- For non-emergency personnel**

Ensure adequate ventilation

Keep away from ignition sources

Wear protective clothing.

**- For emergency responders**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).

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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 measures required.

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:** Protect from heat.

**- 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:** None.

**- 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:**

**67-63-0 propan-2-ol**

WEL Short-term value: 1250 mg/m<sup>3</sup>, 500 ppm

Long-term value: 999 mg/m<sup>3</sup>, 400 ppm

**107-98-2 1-methoxypropan-2-ol**

WEL Short-term value: 560 mg/m<sup>3</sup>, 150 ppm

Long-term value: 375 mg/m<sup>3</sup>, 100 ppm

Sk

**- DNELs**

**67-63-0 propan-2-ol**

Oral	Systemic Long-term Effects	26 mg/Kg bw/day (Consumers)
Dermal	Systemic long-term effects	888 mg/Kg bw/day (Industrial Workers)
		319 mg/Kg bw/day (Consumers)
Inhalative	Local long-term effects	mg/m <sup>3</sup> (Industrial Workers)
		55 mg/m <sup>3</sup> (Consumers)
	Systemic long-term effects	500 mg/m <sup>3</sup> (Industrial Workers)
		89 mg/m <sup>3</sup> (Consumers)

**107-98-2 1-methoxypropan-2-ol**

Oral	Systemic Long-term Effects	3.3 mg/Kg bw/day (Consumers)
Dermal	Systemic long-term effects	50.6 mg/Kg bw/day (Industrial Workers)
		18.1 mg/Kg bw/day (Consumers)
Inhalative	Local short-term effects	553.5 mg/m <sup>3</sup> (Industrial Workers)
	Systemic long-term effects	369 mg/m <sup>3</sup> (Industrial Workers)
		43.9 mg/m <sup>3</sup> (Consumers)
	Systemic Short-term Effects	369 mg/m <sup>3</sup> (Industrial Workers)

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**111-76-2 2-butoxyethanol**

Oral	Systemic Long-term Effects	6.3 mg/Kg bw/day (Consumers)
	Systemic short-term effects	26.7 mg/m <sup>3</sup> (Consumers)
Dermal	Systemic long-term effects	125 mg/Kg bw/day (Industrial Workers)
		75 mg/Kg bw/day (Consumers)
	Systemic Short-term Effects	89 mg/Kg bw/day (Industrial Workers)
Inhalative		89 mg/Kg bw/day (Consumers)
	Local long-term effects	67.5 mg/m <sup>3</sup> (Industrial Workers)
		40.5 mg/m <sup>3</sup> (Consumers)
	Local short-term effects	246 mg/m <sup>3</sup> (Industrial Workers)
		147 mg/m <sup>3</sup> (Consumers)
	Systemic long-term effects	98 mg/m <sup>3</sup> (Industrial Workers)
	59 mg/m <sup>3</sup> (Consumers)	
	Systemic Short-term Effects	1,091 mg/m <sup>3</sup> (Industrial Workers)
		426 mg/m <sup>3</sup> (Consumers)

**78-83-1 butanol**

Inhalative	Local long-term effects	310 mg/m <sup>3</sup> (Industrial Workers)
		55 mg/m <sup>3</sup> (Consumers)

**68515-73-1 Alkyl polyglucosyde C8-C10**

Oral	Systemic Long-term Effects	35.7 mg/Kg bw/day (Consumers)
Dermal	Systemic long-term effects	595,000 mg/Kg bw/day (Industrial Workers)
		357,000 mg/Kg bw/day (Consumers)
Inhalative	Systemic long-term effects	420 mg/m <sup>3</sup> (Industrial Workers)
		124 mg/m <sup>3</sup> (Consumers)

**- PNECs****67-63-0 propan-2-ol**

PNEC STP	2,251 mg/L (STP)
Soil	28 mg/Kg (Soil)
Soft Water	140.9 mg/L (Water)
Sea water	140.9 mg/L (Water)
Sediment (soft water)	552 mg/Kg (Soil)
Sediment (sea water)	552 mg/Kg (Soil)
Occasional Emission	140.9 mg/L (Water)

**107-98-2 1-methoxypropan-2-ol**

PNEC STP	100 mg/L (STP)
Soil	4.59 mg/Kg (Soil)
Soft Water	10 mg/L (Water)
Sea water	1 mg/L (Water)
Sediment (soft water)	52.3 mg/Kg (Soil)
Sediment (sea water)	5.2 mg/Kg (Soil)

**111-76-2 2-butoxyethanol**

PNEC STP	463 mg/L (STP)
Soil	2.33 mg/Kg (Soil)
Soft Water	8.8 mg/L (Water)
Sea water	0.88 mg/L (Water)
Sediment (soft water)	34.6 mg/Kg (Soil)

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<i>Sediment (sea water)</i>	3.46 mg/Kg (Soil)
<i>Occasional Emission</i>	26.4 mg/L (Water)
<b>78-83-1 butanol</b>	
<i>PNEC STP</i>	10 mg/L (STP)
<i>Soil</i>	0.076 mg/Kg (Soil)
<i>Soft Water</i>	0.4 mg/L (Water)
<i>Sea water</i>	0.04 mg/L (Water)
<i>Sediment (soft water)</i>	1.56 mg/Kg (Soil)
<i>Sediment (sea water)</i>	0.15 mg/Kg (Soil)
<i>Occasional Emission</i>	11 mg/L (Water)
<b>68515-73-1 Alkyl polyglucosyde C8-C10</b>	
<i>PNEC STP</i>	560 mg/L (STP)
<i>Soil</i>	0.654 mg/Kg (Soil)
<i>Soft Water</i>	0.176 mg/L (Water)
<i>Sea water</i>	0.0176 mg/L (Water)
<i>Sediment (soft water)</i>	1.516 mg/Kg (Soil)
<i>Sediment (sea water)</i>	0.152 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 section 7.

- **Individual protection measures, such as personal protective equipment**

- **General protective and hygienic measures**

Do not eat, drink or smoke while working.

Do not carry cleaning cloths impregnated with the product in trouser pockets.

Keep away from tobacco products.

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**

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**



Safety glasses recommended during refilling.

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

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### SECTION 9: Physical and chemical properties

#### - 9.1 Information on basic physical and chemical properties

##### - General Information

- Physical state	Fluid
- Colour:	Colourless
- Odour:	Pleasant
- Odour threshold:	Not determined.
- Melting point/freezing point:	Not determined
- Boiling point or initial boiling point and boiling range	Not determined
- Flammability	Not applicable.
- Lower and upper explosion limit	
- Lower:	Not determined.
- Upper:	Not determined.
- Flash point:	44 °C
- Decomposition temperature:	Not determined.
- pH at 20 °C	8
- Viscosity:	
- Kinematic viscosity at 20 °C	10 mm <sup>2</sup> /s
- 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	0.99 g/cm <sup>3</sup>
- 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.	
- Self-inflammability:	Product is not selfigniting.
- Explosive properties:	Product is not explosive.
- 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
- 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

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- 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 No dangerous reactions known
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 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 Based on available data, the classification criteria are not met.

- LD/LC50 values that are relevant for classification:

#### 67-63-0 propan-2-ol

Oral	LD50	5,840 mg/Kg (Rat)
Dermal	LD50	mg/Kg (Rat)

#### 107-98-2 1-methoxypropan-2-ol

Oral	LD50	4,016 mg/Kg (Rat)
Dermal	LD50	>2,000 mg/Kg (Rat) 13,500 mg/Kg (Rabbit)

#### 111-76-2 2-butoxyethanol

Oral	LD50	1,200 mg/Kg (ATE) >2,000 mg/Kg (Rabbit) 1,746 mg/Kg (Rat)
Dermal	LD50	>2,000 mg/Kg (Rat)

#### 78-83-1 butanol

Oral	LD50	>2,830 mg/Kg (Rat)
Dermal	LD50	>2,000 mg/Kg (Rabbit)

#### 68515-73-1 Alkyl polyglucosyde C8-C10

Oral	LD50	>2,000 mg/Kg (Rat)
Dermal	LD50	>2,000 mg/Kg (Rat)

- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- 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.

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### SECTION 12: Ecological information

#### - 12.1 Toxicity

##### - Aquatic toxicity:

##### 67-63-0 propan-2-ol

LC50 (4 h)	24.6 mg/L (Rat)
LC50 (96h)	>100 mg/L (Fish)
EC50 (48h)	>100 mg/L (Daphnia)
EC50 (72h)	>100 mg/L (Algae)

##### 107-98-2 1-methoxypropan-2-ol

LC50 (4 h)	6 mg/L (Rat)
LC50 (96h)	>100 mg/L (Algae) 4,600 mg/L (Fish)
EC50 (48h)	23,300 mg/L (Daphnia)
EC50 (96h)	>1,000 mg/L (Algae) 20,800 mg/L (Fish)

##### 111-76-2 2-butoxyethanol

LC50 (96h)	1,474 mg/L (Fish)
EC50 (48h)	1,550 mg/L (Daphnia)
EC50 (72h)	911 mg/L (Algae)

##### 78-83-1 butanol

LC50 (96h)	1,430 mg/L (Fish)
EC50 (48h)	1,100 mg/L (Daphnia)
EC50 (72h)	1,799 mg/L (Algae)

##### 68515-73-1 Alkyl polyglucosyde C8-C10

LC50 (96h)	126 mg/L (Fish)
EC50 (48h)	>100 mg/L (Daphnia)
EC50 (72h)	27.22 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 The product does not contain substances with endocrine disrupting properties.

#### - 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<br>- ADR, IMDG, IATA                | Void            |
| - 14.2 UN proper shipping name<br>- ADR, IMDG, IATA               | Void            |
| - 14.3 Transport hazard class(es)<br>- ADR, IMDG, IATA<br>- Class | Void            |
| - 14.4 Packing group<br>- ADR, IMDG, IATA                         | Void            |
| - 14.5 Environmental hazards:                                     | Not applicable. |
| - 14.6 Special precautions for user                               | Not applicable. |
| - 14.7 Maritime transport in bulk according to IMO instruments    | Not applicable. |

### 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.
- National regulations
- Classification according to VbF: Void
- Technical instructions (air):

Class	Share in %
NK	15.5

- **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.  
H226 Flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.
- **Department issuing data specification sheet:** Ma-Fra Laboratories
- **Contact:** lab@mafra.it
- **Abbreviations and acronyms:**  
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)

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*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**Eye Irrit. 2: Serious eye damage/eye irritation – Category 2**STOT SE 3: Specific target organ toxicity (single exposure) – Category 3***- \* Data compared to the previous version altered.**

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