



# MATERIAL SAFETY DATA SHEET

Conforms to Reg. (EU) 878/2020

Issued on 05/10//2018

Revision n° 3

Rev. Date 7/11/2023

Page

1 of 17

## SECTION 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Code: F\_177  
Product name: LAVATRICE CLASSICO  
UFI: P283-N0UG-P00Y-7JAT

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

| Identified Uses      | Industrial | Professional | Consumer |
|----------------------|------------|--------------|----------|
| Laundry detergent    | -          | ✓            | ✓        |
| Uses Advised Against |            |              |          |

Do not use for uses other than those indicated

### 1.3. Details of the supplier of the safety data sheet

Name: NEW FADOR S.r.l.  
Full address: via Mario Calderara, 31  
District and Country: 25018 Montichiari (BS)  
Italia  
Tel. +39 030961 243

[www.newfador.it](http://www.newfador.it)

e-mail address of the competent person  
responsible for the Safety Data Sheet

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

### 1.4. Emergency telephone number

For urgent inquiries refer to

NEW FADOR S.r.l.

+39 030961 243

(08.30 - 17.30)

## SECTION 2. Hazards identification

### 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Eye irritation, category 2

H319

Causes serious eye irritation.

Classified on the basis of the results of the ICE-PH-15/0339 study

### 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



# MATERIAL SAFETY DATA SHEET

Conforms to Reg. (EU) 878/2020

Issued on 05/10//2018

Revision n° 3

Rev. Date 7/11/2023

Page

2 of 17



Signal words: Warning

Hazard statements:

**H319** Causes serious eye irritation.

Precautionary statements:

**P101** If medical advice is needed, have product container or label at hand.

**P102** Keep out of reach of children.

**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.

**P337+P313** If eye irritation persists: Get medical advice / attention.

Ingredients according to Regulation (EC) No. 648/2004

Less than 5% Non-ionic surfactants, Soap

5% or over but less than 15% Anionic surfactants

15%

Perfumes

Preservation agents: Glutaral, Benzisothiazolinone, 2-Bromo-2-Nitropropane-1,3-Diol

## 2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration  $\geq$  0.1%.

## SECTION 3. Composition/information on ingredients

### 3.1. Substances

Information not relevant

### 3.2. Mixtures

Contains:

| Identification  | x = Conc. %    | Classification (EC) 1272/2008 (CLP)  |
|---|----------------|--|
| <b>BENZENESULFONIC ACID, C10-13-ALKYL DERIVS., SODIUM SALTS</b> |                |  |
| INDEX -   | $6 \leq x < 7$ | Acute Tox. 4 H302,<br>Eye Dam. 1 H318,<br>Skin Irrit. 2 H315,<br>Aquatic Chronic 3 H412<br>LD50 Oral: 1080 mg/kg |
| EC 270-115-0  |                |  |
| CAS 68411-30-3  |                |  |



# MATERIAL SAFETY DATA SHEET

Conforms to Reg. (EU) 878/2020

Issued on 05/10//2018

Revision n° 3

Rev. Date 7/11/2023

Page

3 of 17

REACH Reg. 01-2119489428-22

## ALCOHOLS, C12-13, BRANCHED AND LINEAR, ETHOXYLATED

INDEX -  $4,5 \leq x < 5$  Acute Tox. 4 H302,  
Eye Dam. 1 H318,  
Aquatic Chronic 3 H412  
EC 931-954-4 Eye Dam. 1 H318:  $\geq 10\%$ ,  
Eye Irrit. 2 H319:  $\geq 1\%$   
CAS 160901-19-9 LD50 Oral: >300 mg/kg

REACH Reg. 01-2119490233-42

## ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS

INDEX -  $1 \leq x < 1,5$  Eye Dam. 1 H318,  
Skin Irrit. 2 H315,  
Aquatic Chronic 3 H412  
EC 500-234-8 Eye Dam. 1 H318:  $\geq 10\%$ ,  
Eye Irrit. 2 H319:  $\geq 5\%$   
CAS 68891-38-3

REACH Reg. 01-2119488639-16

## bronopol (INN)

INDEX 603-085-00-8  $0 \leq x < 0,05$  Acute Tox. 4 H302,  
Acute Tox. 4 H312,  
Eye Dam. 1 H318,  
Skin Irrit. 2 H315,  
STOT SE 3 H335,  
Aquatic Acute 1 H400 M=10,  
Aquatic Chronic 2 H411  
EC 200-143-0 STA Oral: 500 mg/kg,  
STA Dermal: 1100 mg/kg

CAS 52-51-7

REACH Reg. 01-2119980938-15

## MORPHOLINE

INDEX 613-028-00-9  $0 \leq x < 0,05$  Flam. Liq. 3 H226,  
Acute Tox. 4 H302,  
Acute Tox. 4 H312,  
Acute Tox. 4 H332,  
Skin Corr. 1B H314,  
Eye Dam. 1 H318  
EC 203-815-1 LD50 Oral: 1050 mg/kg,  
STA Dermal: 1100 mg/kg,  
STA Inhalation vapours: 11 mg/l  
CAS 110-91-8

The full wording of hazard (H) phrases is given in section 16 of the sheet.

## SECTION 4. First aid measures

### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

### 4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.



# MATERIAL SAFETY DATA SHEET

Conforms to Reg. (EU) 878/2020

Issued on 05/10//2018

Revision n° 3

Rev. Date 7/11/2023

Page

4 of 17

#### 4.3. Indication of any immediate medical attention and special treatment needed

Information not available

## SECTION 5. Firefighting measures

### 5.1. Extinguishing media

#### SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

#### UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

### 5.2. Special hazards arising from the substance or mixture

#### HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

### 5.3. Advice for firefighters

#### GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

#### SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

## SECTION 6. Accidental release measures

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

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

### 6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

## SECTION 7. Handling and storage



# MATERIAL SAFETY DATA SHEET

Conforms to Reg. (EU) 878/2020

Issued on 05/10//2018

Revision n° 3

Rev. Date 7/11/2023

Page

5 of 17

## 7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

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

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

## 7.3. Specific end use(s)

Information not available

## SECTION 8. Exposure controls/personal protection

### 8.1. Control parameters

Regulatory references:

|     |                 |  |
|-----|-----------------|--|
| AUS | Österreich      | Gesamte Rechtsvorschrift für Grenzwertverordnung 2021 , Fassung vom 17.06.2021   |
| BEL | Belgique        | Liste de valeurs limites d'exposition aux agents chimiques, livre VI du code du bien-être au travail   |
| BGR | България        | НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. ЗА ЗАЩИТА НА РАБОТЕЩИТЕ ОТ РИСКОВЕ, СВЪРЗАНИ С ЕКСПОЗИЦИЯ НА ХИМИЧНИ АГЕНТИ ПРИ РАБОТА (изм. ДВ. бр.5 от 17 Януари 2020г.)   |
| CZE | Česká Republika | Nařízení vlády č. 41/2020 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů   |
| DEU | Deutschland     | Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56  |
| DNK | Danmark         | Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019  |
| ESP | España          | Límites de exposición profesional para agentes químicos en España 2021   |
| FRA | France          | Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS   |
| FIN | Suomi           | HTP-VÄRDEN 2020. Koncentrationer som befunnits skadliga. SOCIAL - OCH HÄLSOVÄRDSMINISTERIETS PUBLIKATIONER 2020:25   |
| GRC | Ελλάδα          | Π.Δ. 26/2020 (ΦΕΚ 50/Α' 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας 2004/37/ΕΚ ``σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταλλαξιογόνους παράγοντες κατά την εργασία``» |
| HUN | Magyarország    | Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelete a kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről  |
| ITA | Italia          | Decreto Legislativo 9 Aprile 2008, n.81  |
| IRL | Éire            | 2020 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations (2001-2015) and the Safety, Health and Welfare at Work (Carcinogens) Regulations (2001-2019)  |
| LUX | Luxembourg      | Règlement grand-ducal du 24 janvier 2020 modifiant le règlement grand-ducal du 14 novembre 2016 concernant la protection des salariés contre les risques liés à l'exposition à des agents cancérigènes ou mutagènes au travail   |
| LTU | Lietuva         | Jsakymas dėl lietuvių higienos normos hn 23:2011 „cheminių medžiagų profesinio poveikio ribiniai dydžiai. Matavimo ir poveikio vertinimo bendrieji reikalavimai“ patvirtinimo  |
| LVA | Latvija         | Grozījumi Ministru kabineta 2007. gada 15. maija noteikumos Nr. 325 "Darba aizsardzības prasības saskarē ar ķīmiskajām vielām darba vietās" (prot. Nr. 32 18. §; prot. Nr. 1 22. §)  |
| MLT | Malta           | PROTECTION OF THE HEALTH AND SAFETY OF WORKERS FROM THE RISKS RELATED TO CHEMICAL AGENTS AT WORK REGULATIONS (S.L.424.24). PROTECTION OF WORKERS FROM THE RISKS RELATED TO EXPOSURE TO CARCINOGENS OR MUTAGENS AT WORK REGULATIONS (S.L.424.22)  |
| NOR | Norge           | Forskrift om endring i forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdier), 21. august 2018 nr. 1255  |
| NLD | Nederland       | Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit  |
| PRT | Portugal        | Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à exposição durante o trabalho a agentes cancerígenos ou mutagénicos  |
| POL | Polska          | Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w   |



# MATERIAL SAFETY DATA SHEET

Conforms to Reg. (EU) 878/2020

Issued on 05/10//2018

Revision n° 3

Rev. Date 7/11/2023

Page

6 of 17

|     |                |  |
|-----|----------------|--|
| ROU | România        | środowisku pracy<br>Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea și completarea hotărârii guvernului nr. 1.093/2006  |
| SWE | Sverige        | Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS 2018:1)  |
| SVK | Slovensko      | NARIADENIE VLÁDY Slovenskej republiky z 12. augusta 2020, ktorým sa mení a dopĺňa nariadenie vlády Slovenskej republiky č. 356/2006 Z. z. o ochrane zdravia zamestnancov pred rizikami súvisiacimi s expozíciou karcinogénnym a mutagénnym faktorom pri práci v znení neskorších predpisov |
| SVN | Slovenija      | Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Uradni list RS, št. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18 in 78/19)  |
| GBR | United Kingdom | EH40/2005 Workplace exposure limits (Fourth Edition 2020)  |
| EU  | OEL EU         | Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC. |
|     | TLV-ACGIH      | ACGIH 2022   |

## BENZENESULFONIC ACID, C10-13-ALKYL DERIVS., SODIUM SALTS

Predicted no-effect concentration - PNEC

|  |       |       |
|--|-------|-------|
| Normal value in fresh water                  | 0,268 | mg/l  |
| Normal value in marine water                 | 0,027 | mg/l  |
| Normal value for fresh water sediment        | 8,1   | mg/kg |
| Normal value for marine water sediment       | 6,8   | mg/kg |
| Normal value for water, intermittent release | 0,017 | mg/l  |
| Normal value of STP microorganisms           | 3,43  | mg/l  |
| Normal value for the terrestrial compartment | 35    | mg/kg |

### Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers |                |               | Effects on workers |             |                |               |                  |
|-------------------|----------------------|----------------|---------------|--------------------|-------------|----------------|---------------|------------------|
|                   | Acute local          | Acute systemic | Chronic local | Chronic systemic   | Acute local | Acute systemic | Chronic local | Chronic systemic |
| Oral              |                      |                |               | 0,425 mg/kg bw/d   |             |                |               |                  |
| Inhalation        |                      |                | 1,5           | 1,5 mg/m3          |             |                | 6             | 6 mg/m3          |
| Skin              |                      |                |               | 42,5 mg/kg bw/d    |             |                |               | 85 mg/kg bw/d    |

## ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS

Predicted no-effect concentration - PNEC

|  |       |       |
|--|-------|-------|
| Normal value in fresh water                  | 0,24  | mg/l  |
| Normal value in marine water                 | 0,024 | mg/l  |
| Normal value for fresh water sediment        | 0,917 | mg/kg |
| Normal value for marine water sediment       | 0,092 | mg/kg |
| Normal value for water, intermittent release | 0,071 | mg/l  |
| Normal value of STP microorganisms           | 10    | g/l   |
| Normal value for the terrestrial compartment | 7,5   | mg/kg |

### Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers |                |               | Effects on workers |             |                |               |                  |
|-------------------|----------------------|----------------|---------------|--------------------|-------------|----------------|---------------|------------------|
|                   | Acute local          | Acute systemic | Chronic local | Chronic systemic   | Acute local | Acute systemic | Chronic local | Chronic systemic |
| Oral              |                      |                |               | 15 mg/kg bw/d      |             |                |               |                  |



# MATERIAL SAFETY DATA SHEET

Conforms to Reg. (EU) 878/2020

Issued on 05/10//2018

Revision n° 3

Rev. Date 7/11/2023

Page

7 of 17

|            |                 |                 |
|------------|-----------------|-----------------|
| Inhalation | 52 mg/m3        | 175 mg/m3       |
| Skin       | 1650 mg/kg bw/d | 2750 mg/kg bw/d |

## bronopol (INN)

Predicted no-effect concentration - PNEC

|  |       |         |
|--|-------|---------|
| Normal value in fresh water                  | 0,01  | mg/l    |
| Normal value in marine water                 | 0,001 | mg/l    |
| Normal value for fresh water sediment        | 0,041 | mg/kg/d |
| Normal value for marine water sediment       | 0,003 | mg/kg/d |
| Normal value for water, intermittent release | 0,003 | mg/l    |
| Normal value of STP microorganisms           | 0,43  | mg/l    |
| Normal value for the terrestrial compartment | 0,5   | mg/kg/d |

## Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers |                |               |                  | Effects on workers |                |               |                  |
|-------------------|----------------------|----------------|---------------|------------------|--------------------|----------------|---------------|------------------|
|                   | Acute local          | Acute systemic | Chronic local | Chronic systemic | Acute local        | Acute systemic | Chronic local | Chronic systemic |
| Oral              |                      | 1,1 mg/kg bw/d |               | 0,35 mg/kg bw/d  |                    |                |               |                  |
| Inhalation        | 1,3 mg/m3            | 3,7 mg/m3      | 1,3 mg/m3     | 1,2 mg/m3        | 4,2 mg/m3          | 12,3 mg/m3     | 4,2 mg/m3     | 4,1 mg/m3        |
| Skin              | 0,008 mg/cm2         | 4,2 mg/kg bw/d | 0,008 mg/cm2  | 1,4 mg/kg bw/d   | 0,013 mg/cm2       | 7 mg/kg bw/d   | 0,013 mg/cm2  | 2,3 mg/kg bw/d   |

## MORPHOLINE

### Threshold Limit Value

| Type | Country | TWA/8h |      | STEL/15min |       | Remarks / Observations    |
|------|---------|--------|------|------------|-------|---------------------------|
|      |         | mg/m3  | ppm  | mg/m3      | ppm   |                           |
| MAK  | AUS     | 36     | 10   | 36         | 10    | Häufigkeit pro Schicht:4x |
| VLEP | BEL     | 36     | 10   | 72         | 20    | SKIN                      |
| TLV  | BGR     | 36     | 10   | 72         | 20    |                           |
| TLV  | CZE     | 35     | 9,66 | 70         | 19,32 |                           |
| AGW  | DEU     | 36     | 10   | 72         | 20    | SKIN                      |
| MAK  | DEU     | 36     | 10   | 72         | 20    |                           |
| TLV  | DNK     | 36     | 10   |            |       | SKIN E                    |
| VLA  | ESP     | 36     | 10   | 72         | 20    |                           |
| VLEP | FRA     | 36     | 10   | 72         | 20    |                           |
| HTP  | FIN     | 36     | 10   | 72         | 20    | SKIN                      |
| TLV  | GRC     | 36     | 10   | 72         | 20    |                           |
| AK   | HUN     | 36     |      | 72         |       |                           |
| VLEP | ITA     | 36     | 10   | 72         | 20    | SKIN                      |
| OELV | IRL     | 36     | 10   | 72         | 20    | SKIN                      |
| VL   | LUX     | 36     | 10   | 72         | 20    |                           |
| RD   | LTU     | 36     | 10   | 72         | 20    |                           |
| RV   | LVA     | 36     | 10   | 72         | 20    |                           |
| TLV  | MLT     | 36     | 10   | 72         | 20    |                           |
| TLV  | NOR     | 36     | 10   |            |       | SKIN                      |
| TGG  | NLD     | 36     |      | 72         |       | SKIN                      |



# MATERIAL SAFETY DATA SHEET

Conforms to Reg. (EU) 878/2020

Issued on 05/10//2018

Revision n° 3

Rev. Date 7/11/2023

Page

8 of 17

|           |     |    |    |    |    |      |
|-----------|-----|----|----|----|----|------|
| VLE       | PRT | 36 | 10 | 72 | 20 |      |
| NDS/NDSch | POL | 36 |    | 72 |    | SKIN |
| TLV       | ROU | 36 | 10 | 72 | 20 |      |
| NGV/KGV   | SWE | 35 | 10 | 72 | 20 |      |
| NPEL      | SVK | 36 | 10 | 72 | 20 |      |
| MV        | SVN | 36 | 10 | 72 | 20 | SKIN |
| WEL       | GBR | 36 | 10 | 72 | 20 | SKIN |
| OEL       | EU  | 36 | 10 | 72 | 20 |      |
| TLV-ACGIH |     | 71 | 20 |    |    | SKIN |

## Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

## 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

## HAND PROTECTION

Protect hands with category III work gloves.

The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

## SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

## EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

## RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

## ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

## SECTION 9. Physical and chemical properties

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





# MATERIAL SAFETY DATA SHEET

Conforms to Reg. (EU) 878/2020

Issued on 05/10//2018

Revision n° 3

Rev. Date 7/11/2023

Page

9 of 17

| Properties                             | Value            | Information  |
|--|------------------|--|
| Appearance                             | liquid           |  |
| Colour                                 | light blue       |  |
| Odour                                  | characteristic   | Method: olfactory  |
| Melting point / freezing point         | 0 °C             | Method: literature data<br>Substance: WATER  |
| Initial boiling point                  | 100 °C           | Method: literature data<br>Substance: WATER  |
| Flammability                           | not available    | Reason for missing data: The substance/mixture is not flammable  |
| Lower explosive limit                  | not available    | Reason for missing data: The substance/mixture is not explosive  |
| Upper explosive limit                  | not available    | Reason for missing data: The substance/mixture is not explosive  |
| Flash point                            | not available    | Reason for missing data: The substance/mixture is not flammable  |
| Auto-ignition temperature              | not available    | Reason for missing data: The substance/mixture does not self -have   |
| Decomposition temperature              | not available    | Reason for missing data: It only applies to authoritative substances and mixtures, organic peroxides and other substances and mixtures that they can decompose |
| pH                                     | 9.0 ± 0.5        | Method: pHmeter  |
| Kinematic viscosity                    | 250 ± 50         | Method: viscosimetro   |
| Solubility                             | soluble in water |  |
| Partition coefficient: n-octanol/water | not available    | Reason for missing data: does not apply to inorganic and ionic liquids and, as a rule, it does not apply to blends   |
| Vapour pressure                        | 0,02 Atm         | Method: internal<br>Substance: WATER   |
| Density and/or relative density        | 1,01             | Method: scaled scale and cylinder  |
| Relative vapour density                | 0,0006           | Remark: kg/dm3<br>Substance: WATER<br>Temperature: 0 °C  |

## Particle characteristics

### Median equivalent diameter

Remark: It only applies to solids

### Size distribution

Remark: It only applies to solids

### Dustiness

Remark: It only applies to solids

### Specific surface area

Remark: It only applies to solids

## 9.2. Other information

### 9.2.1. Information with regard to physical hazard classes

Information not available

### 9.2.2. Other safety characteristics

|                      |               |   |
|----------------------|---------------|---|
| Explosive properties | not available | Reason for missing data: Absent chemical groups associated with explosive properties in accordance with the provisions of Annex I, Part 2, chap. 2.1.4.3 of Reg. (EC) 1272/2008 |
|----------------------|---------------|---|



# MATERIAL SAFETY DATA SHEET

Conforms to Reg. (EU) 878/2020

Issued on 05/10//2018

Revision n° 3

Rev. Date 7/11/2023

Page

10 of 17

Oxidising properties

not available

– CLP

Reason for missing data: Absent requirements related to the presence of atoms or chemical bonds associated with oxidizing properties in the molecules of the components according to Annex I, Part 2, 2.13.4 Reg. (CE) 1272/2008

## SECTION 10. Stability and reactivity

### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

bronopol (INN)

Decomposes on contact with: water,metals,strong bases.

MORPHOLINE

On contact with: strong oxidising agents,reducing agents,strong acids,strong bases.May develop: heat.

### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

### 10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

### 10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

bronopol (INN)

Avoid exposure to: light,UV rays,moisture.

### 10.5. Incompatible materials

Information not available

### 10.6. Hazardous decomposition products

bronopol (INN)

May develop: nitric oxide,carbon oxides,hydrobromic acid.

## SECTION 11. Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

#### ACUTE TOXICITY

ATE (Inhalation) of the mixture:

Not classified (no significant component)

ATE (Oral) of the mixture:

>2000 mg/kg

ATE (Dermal) of the mixture:

Not classified (no significant component)

BENZENESULFONIC ACID, C10-13-ALKYL DERIVS., SODIUM SALTS



# MATERIAL SAFETY DATA SHEET

Conforms to Reg. (EU) 878/2020

Issued on 05/10//2018

Revision n° 3

Rev. Date 7/11/2023

Page

11 of 17

LD50 (Dermal): > 2000 mg/kg rat  
LD50 (Oral): 1080 mg/kg rat

## ALCOHOLS, C12-13, BRANCHED AND LINEAR, ETHOXYLATED

LD50 (Dermal): > 2000 mg/kg rabbit  
LD50 (Oral): > 300 mg/kg rat

## ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS

LD50 (Dermal): > 2000 mg/kg rat  
LD50 (Oral): > 2000 mg/kg rat

## bronopol (INN)

LD50 (Dermal): > 2000 mg/kg bw rat  
STA (Dermal): 1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP  
(figure used for calculation of the acute toxicity estimate of the mixture)

LD50 (Oral): 254 mg/kg Male Rat  
LC50 (Inhalation mists/powders): > 0,588 mg/l air/4h rat

## MORPHOLINE

LD50 (Dermal): 500 mg/kg Rabbit  
STA (Dermal): 1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP  
(figure used for calculation of the acute toxicity estimate of the mixture)

LD50 (Oral): 1050 mg/kg Rat  
LC50 (Inhalation vapours): 35,1 mg/l/1h Rat

## SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

## SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

## RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

## GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

## CARCINOGENICITY

Does not meet the classification criteria for this hazard class

## REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

## STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

## STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

## ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

## 11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

## SECTION 12. Ecological information

### 12.1. Toxicity

#### ALCOHOLS, C12-13, BRANCHED AND LINEAR, ETHOXYLATED

EC50 - for Algae / Aquatic Plants > 1 mg/l/72h *Desmodesmus subspicatus*  
EC10 for Crustacea > 0,1 mg/l *Daphnia magna*



# MATERIAL SAFETY DATA SHEET

Conforms to Reg. (EU) 878/2020

Issued on 05/10//2018

Revision n° 3

Rev. Date 7/11/2023

Page

12 of 17

|   |                                     |
|---|-------------------------------------|
| bronopol (INN)                          |                                     |
| LC50 - for Fish                         | 35,7 mg/l/96 d Lepomis macrochirus  |
| EC50 - for Crustacea                    | 0,27 mg/l/21 d Daphnia magna        |
| EC50 - for Algae / Aquatic Plants       | 0,25 mg/l/72h Skeletonema costatum  |
| Chronic NOEC for Fish                   | > 20 mg/l/96 h Lepomis macrochirus  |
| Chronic NOEC for Crustacea              | 0,27 mg/l/21 d Daphnia magna        |
| Chronic NOEC for Algae / Aquatic Plants | 0,08 mg/l/72 h Skeletonema costatum |

## BENZENESULFONIC ACID, C10-13-ALKYL DERIVS., SODIUM SALTS

|   |               |
|---|---------------|
| LC50 - for Fish                         | 1,67 mg/l/96h |
| EC50 - for Crustacea                    | 2,9 mg/l/48h  |
| EC50 - for Algae / Aquatic Plants       | 0,91 mg/l/72h |
| Chronic NOEC for Fish                   | 0,23 mg/l 72d |
| Chronic NOEC for Crustacea              | 0,5 mg/l 7d   |
| Chronic NOEC for Algae / Aquatic Plants | 0,5 mg/l 96h  |

## ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS

|   |                                     |
|---|-------------------------------------|
| LC50 - for Fish                         | > 1 mg/l/96h Danio rerio            |
| EC50 - for Crustacea                    | 7,2 mg/l/48h Daphnia magna          |
| EC50 - for Algae / Aquatic Plants       | 27 mg/l/72h Desmodesmus subspicatus |
| Chronic NOEC for Fish                   | 0,14 mg/l 28d Oncorhynchus mykiss   |
| Chronic NOEC for Crustacea              | 0,18 mg/l 21d Daphnia magna         |
| Chronic NOEC for Algae / Aquatic Plants | 0,93 mg/l Desmodesmus subspicatus   |

### 12.2. Persistence and degradability

#### MORPHOLINE

Solubility in water 1000 - 10000 mg/l

#### ALCOHOLS, C12-13, BRANCHED AND LINEAR, ETHOXYLATED

Rapidly degradable  
bronopol (INN)

Solubility in water 286000 mg/l

Rapidly degradable

#### BENZENESULFONIC ACID, C10-13-ALKYL DERIVS., SODIUM SALTS

Rapidly degradable

#### ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS

Rapidly degradable

### 12.3. Bioaccumulative potential

#### MORPHOLINE

Partition coefficient: n-octanol/water -2,55

BCF < 0,65

bronopol (INN)



# MATERIAL SAFETY DATA SHEET

Conforms to Reg. (EU) 878/2020

Issued on 05/10//2018

Revision n° 3

Rev. Date 7/11/2023

Page

13 of 17

Partition coefficient: n-octanol/water 0,22  
BCF 3,16

BENZENESULFONIC ACID, C10-13-ALKYL  
DERIVS., SODIUM SALTS  
BCF 159

## 12.4. Mobility in soil

MORPHOLINE  
Partition coefficient: soil/water -0,6196

ALCOHOLS, C12-13, BRANCHED AND  
LINEAR, ETHOXYLATED  
Partition coefficient: soil/water 3,69

bronopol (INN)  
Partition coefficient: soil/water 1,56 Soil 4: clay loam

ALCOHOLS, C12-14, ETHOXYLATED,  
SULFATES, SODIUM SALTS  
Partition coefficient: soil/water 0,34

## 12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.

## 12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

## 12.7. Other adverse effects

Information not available

## SECTION 13. Disposal considerations

### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

#### CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

## SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.



# MATERIAL SAFETY DATA SHEET

Conforms to Reg. (EU) 878/2020

Issued on 05/10//2018

Revision n° 3

Rev. Date 7/11/2023

Page

14 of 17

#### 14.1. UN number or ID number

not applicable

#### 14.2. UN proper shipping name

not applicable

#### 14.3. Transport hazard class(es)

not applicable

#### 14.4. Packing group

not applicable

#### 14.5. Environmental hazards

not applicable

#### 14.6. Special precautions for user

not applicable

#### 14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

## SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

#### Product

Point 3 - 40

#### Contained substance

Point 75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

not applicable

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage  $\geq$  than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None



# MATERIAL SAFETY DATA SHEET

Conforms to Reg. (EU) 878/2020

Issued on 05/10//2018

Revision n° 3

Rev. Date 7/11/2023

Page

15 of 17

## Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

Regulation (EC) No. 648/2004

Ingredients according to Regulation (EC) No. 648/2004

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.

## 15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

## SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

|                          |  |
|--------------------------|--|
| <b>Flam. Liq. 3</b>      | Flammable liquid, category 3                                       |
| <b>Acute Tox. 4</b>      | Acute toxicity, category 4   |
| <b>Skin Corr. 1B</b>     | Skin corrosion, category 1B  |
| <b>Eye Dam. 1</b>        | Serious eye damage, category 1                                     |
| <b>Eye Irrit. 2</b>      | Eye irritation, category 2   |
| <b>Skin Irrit. 2</b>     | Skin irritation, category 2  |
| <b>STOT SE 3</b>         | Specific target organ toxicity - single exposure, category 3       |
| <b>Aquatic Acute 1</b>   | Hazardous to the aquatic environment, acute toxicity, category 1   |
| <b>Aquatic Chronic 2</b> | Hazardous to the aquatic environment, chronic toxicity, category 2 |
| <b>Aquatic Chronic 3</b> | Hazardous to the aquatic environment, chronic toxicity, category 3 |
| <b>H226</b>              | Flammable liquid and vapour.                                       |
| <b>H302</b>              | Harmful if swallowed.  |
| <b>H312</b>              | Harmful in contact with skin.                                      |
| <b>H332</b>              | Harmful if inhaled.  |
| <b>H314</b>              | Causes severe skin burns and eye damage.                           |
| <b>H318</b>              | Causes serious eye damage.   |
| <b>H319</b>              | Causes serious eye irritation.                                     |
| <b>H315</b>              | Causes skin irritation.  |
| <b>H335</b>              | May cause respiratory irritation.                                  |
| <b>H400</b>              | Very toxic to aquatic life.  |
| <b>H411</b>              | Toxic to aquatic life with long lasting effects.                   |
| <b>H412</b>              | Harmful to aquatic life with long lasting effects.                 |

## LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)



# MATERIAL SAFETY DATA SHEET

Conforms to Reg. (EU) 878/2020

Issued on 05/10//2018

Revision n° 3

Rev. Date 7/11/2023

Page

16 of 17

- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

## GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
  2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
  3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
  4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
  5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
  6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
  7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
  8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
  9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
  10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
  11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
  12. Regulation (EU) 2016/1179 (IX Atp. CLP)
  13. Regulation (EU) 2017/776 (X Atp. CLP)
  14. Regulation (EU) 2018/669 (XI Atp. CLP)
  15. Regulation (EU) 2019/521 (XII Atp. CLP)
  16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
  17. Regulation (EU) 2019/1148
  18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
  19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
  20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
  21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
  22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
- The Merck Index. - 10th Edition
  - Handling Chemical Safety
  - INRS - Fiche Toxicologique (toxicological sheet)
  - Patty - Industrial Hygiene and Toxicology
  - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
  - IFA GESTIS website
  - ECHA website
  - Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

## Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.





# MATERIAL SAFETY DATA SHEET

Conforms to Reg. (EU) 878/2020

Issued on 05/10//2018

Revision n° 3

Rev. Date 7/11/2023

Page

17 of 17

## CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:

The following sections were modified:

02 / 03 / 08 / 09 / 11 / 12 / 15.