

Safety Data Sheet dated 28/5/2025, version 2

SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier Mixture identification Trade name: **DIX PLUS** UFI: 90G4-D018-500E-MH9Y 1.2. Relevant identified uses of the substance or mixture and uses advised against Recommended use: Detergent for manual dishwashing. Professional use (SU22) - Washing and cleaning products (PC35) Uses advised against: Different uses than recommended. Do not use in combination with other products. 1.3. Details of the supplier of the safety data sheet Manufacturer: SUTTER INDUSTRIES s.p.a. - Società con Unico Socio 15060 Borghetto Borbera (AL) Italia Tel. +39 0143 631.1 Competent person responsible for the safety data sheet: regulatory.affairs@sutter.it 1.4. Emergency telephone number +39 0143 631.1 mon-fri 9.00/17.00 **SECTION 2: Hazards identification**

2.1. Classification of the substance or mixture EC regulation criteria 1272/2008 (CLP)



Warning, Eye Irrit. 2, Causes serious eye irritation.

Warning, Skin Irrit. 2, Causes skin irritation.

Aquatic Chronic 3, Harmful to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards 2.2. Label elements Hazard pictograms:



Warning Hazard statements: H319 Causes serious eye irritation. H315 Causes skin irritation. H412 Harmful to aquatic life with long lasting effects. Precautionary statements: P264 Wash hands thoroughly after handling. P273 Avoid release to the environment. P280 Wear protective gloves/clothing and eye/face protection. P332+P313 If skin irritation occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P501 Dispose of contents/container in accordance with local regulation.

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Special Provisions:

EUH210 Only for professional use. Safety data sheet available on request. EUH208 Contains 1,2-BENZISOTIAZOL-3(2H)-ONE. May produce an allergic reaction.

Product contents: anionic surfactants 5 - 15 % non-ionic surfactants < 5 % The product also contains: Perfumes Allergens: D-LIMONENE Preservatives: 1,2-BENZISOTIAZOL-3(2H)-ONE Special provisions according to Annex XVII of REACH and subsequent amendments: None

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration $\geq 0.1\%$ Other Hazards:

No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

Not Applicable, the product is a mixture.

- 3.2. Mixtures
 - Hazardous components within the meaning of the CLP regulation and related classification: >= 7% < 10% ALKYL ETHER SULFATE C12-14, SODIUM SALT

REACH No.: 01-2119488639-16, CAS: 68891-38-3, EC: 500-234-8

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3.2/2 Skin Irrit. 2 H315
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🤣 3.3/1 Eye Dam. 1 H318

4.1/C3 Aquatic Chronic 3 H412

Specific Concentration Limits: 5% <= C < 10%: Eye Irrit. 2 H319 C >= 10%: Eye Dam. 1 H318

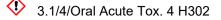
>= 1% - < 3% C12-14 ALKYLDIMETHYLAMINES, N-OXIDES REACH No.: 01-2119490061-47, CAS: 308062-28-4, EC: 931-292-6

- 3.1/4/Oral Acute Tox. 4 H302
- 3.2/2 Skin Irrit. 2 H315
- 🍄 🛛 3.3/1 Eye Dam. 1 H318
- 4.1/A1 Aquatic Acute 1 H400 M=1.
- 4.1/C2 Aquatic Chronic 2 H411

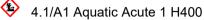
>= 0.01% - < 0.1% 1,2-BENZISOTIAZOL-3(2H)-ONE REACH No.: 01-2120761540-60, Index number: 613-088-00-6, CAS: 2634-33-5, EC: 220-120-9

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- 3.2/2 Skin Irrit. 2 H315
- 🍄 🛛 3.3/1 Eye Dam. 1 H318
- 3.4.2/1 Skin Sens. 1 H317



Specific Concentration Limits: C >= 0,05%: Skin Sens. 1 H317

- >= 0.01% < 0.1% SODIUM HYDROXIDE REACH No.: 01-2119457892-27, Index number: 011-002-00-6, CAS: 1310-73-2, EC: 215-185-5
 - 3.2/1A Skin Corr. 1A H314





Specific Concentration Limits: 0,5% <= C < 2%: Skin Irrit. 2 H315 0,5% <= C < 2%: Eye Irrit. 2 H319 2% <= C < 5%: Skin Corr. 1B H314 C >= 5%: Skin Corr. 1A H314

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap. Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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4.2. Most important symptoms and effects, both acute and delayed Acute effects:

Severe skin and eye irritation for contact.

Irritation interior system if swallowed.

Until revison date of this document, are unknown chronic effects from the mixture contact with skin, eyes, inhalation, ingestion.

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

Until the revision date of this document, no adverse effects and symptoms to exposure of the product are known, including chemical reactivity and instability.

SECTION 5: Firefighting measures

- 5.1. Extinguishing media
 - Suitable extinguishing media:

Water.

Carbon dioxide (CO2).

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

The mixture does not contain ingredients classified as explosive according to EC Regulation 1272/2008 (CLP).

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

- 5.3. Advice for firefighters
 - Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely. The mixture does not contain ingredients classified as explosive according to EC Regulation 1272/2008 (CLP).

SECTION 6: Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures
 - For non emergency personnel:
 - Wear personal protection equipment.
 - Remove persons to safety.

See protective measures under point 7 and 8.

For emergency responders:

Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Wash with plenty of water. To converge the product in containment tanks.

- 6.4. Reference to other sections
 - See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

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Don't use empty container before they have been cleaned.
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
See also section 8 for recommended protective equipment.
Advice on general occupational hygiene:
Contamined clothing should be changed before entering eating areas.
Do not eat or drink while working.
7.2. Conditions for safe storage, including any incompatibilities
Store in a cool and well ventilated place.

Store away from sunlight.

Do not store in open or unlabeled containers.

Store away from heat sources.

Keep away from food, drink and feed.

Incompatible materials:

Until the revision date of this document, no adverse effects and symptoms to exposure of the product are known, including chemical reactivity and instability. see also 1.2 and 7.2. None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

None in particular, see paragraph 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Until the revision date of this document, no experimental data are available for the mixture. elow, listed occupational exposure limits, if available, for the components listed in paragraph 3.2.

1,2-BENZISOTIAZOL-3(2H)-ONE - CAS: 2634-33-5

ACGIH - STEL: 2 mg/m3 SODIUM HYDROXIDE - CAS: 1310-73-2

ACGIH - STEL: Ceiling 2 mg/m3 - Notes: URT, eye, and skin irr

DNEL Exposure Limit Values

Until the revision date of this document, no experimental data are available for the mixture. Below, listed the DNEL exposure limits, if available, for the components listed in paragraph 3.2.

ALKYL ETHER SULFATE C12-14, SODIUM SALT - CAS: 68891-38-3

Worker Industry: 2750 mg/kg - Consumer: 1650 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 175 mg/m3 - Consumer: 52 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 15 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Industry: 0.079 mg/cm2 - Consumer: 0.132 mg/cm2 - Exposure: Human Dermal - Frequency: Long Term, local effects

C12-14 ALKYLDIMETHYLAMINES, N-OXIDES - CAS: 308062-28-4

Worker Industry: 11 mg/kg - Consumer: 5.5 mg/kg - Exposure: Human Dermal -Frequency: Long Term, systemic effects

Worker Industry: 6.2 mg/m3 - Consumer: 1.53 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 0.44 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

1,2-BENZISOTIAZOL-3(2H)-ONE - CAS: 2634-33-5

Worker Professional: 238 mg/m3 - Exposure: Human Inhalation Worker Professional: 84 mg/kg - Exposure: Human Dermal Consumer: 70 mg/m3 - Exposure: Human Inhalation Consumer: 51 mg/kg - Exposure: Human Dermal

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Consumer: 24 mg/kg - Exposure: Human Oral SODIUM HYDROXIDE - CAS: 1310-73-2 Worker Industry: 1 mg/m3 - Consumer: 1 mg/m3 - Exposure: Human Inhalation -Frequency: Long Term, local effects Worker Industry: 2 % - Consumer: 2 % - Exposure: Human Dermal - Frequency: Short Term, local effects **PNEC Exposure Limit Values** Until the revision date of this document, no experimental data are available for the mixture. Below, listed the PNEC exposure limits, if available, for the components listed in paragraph 3.2. ALKYL ETHER SULFATE C12-14, SODIUM SALT - CAS: 68891-38-3 Target: Marine water - Value: 0.024 mg/l Target: Microorganisms in sewage treatments - Value: 10000 mg/l Target: Marine water sediments - Value: 0.09168 mg/kg Target: Soil (agricultural) - Value: 7.5 mg/kg Target: Freshwater sediments - Value: 0.9168 mg/kg Target: Fresh Water - Value: 0.24 mg/l C12-14 ALKYLDIMETHYLAMINES, N-OXIDES - CAS: 308062-28-4 Target: Marine water - Value: 0.00335 mg/l Target: Marine water sediments - Value: 0.524 mg/kg Target: Soil (agricultural) - Value: 1.02 mg/kg Target: Microorganisms in sewage treatments - Value: 24 mg/l Target: Food chain - Value: 11.1 mg/kg Target: Fresh Water - Value: 0.0335 mg/l Target: Freshwater sediments - Value: 5.24 mg/kg 1,2-BENZISOTIAZOL-3(2H)-ONE - CAS: 2634-33-5 Target: Fresh Water - Value: 0.00403 mg/l Target: Marine water - Value: 0.000403 mg/l Target: Freshwater sediments - Value: 0.0499 mg/kg Target: Marine water sediments - Value: 0.00499 mg/kg 8.2. Exposure controls Eye protection: Use close fitting safety goggles, don't use eye lens.(EN 166) Protection for skin: Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton (EN 14605 in case of splashes or EN 13982 in case of dust) Protection for hands: Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber. (ex. EN 388 - EN 374 protection factor 6, corresponding to a breakthrough time >480 minutes). Due to great diversity of types, observe the operating instructions of the manufacturer with respect to substances listed in paragraph 3.2. Respiratory protection: Not needed for normal use. Thermal Hazards: The product is not flammable or explosive - see paragraph 2.1. The product contains no explosive components. Until the revision date of this document, no adverse effects and symptoms to exposure of the product are known, including chemical reactivity and instability.

Environmental exposure controls:

Until the revision date of this document, no adverse effects and symptoms to exposure of the product are known, including chemical reactivity and instability.

See also section 6.2.

Appropriate engineering controls:

No further technical checks suitable for your product under normal conditions.

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See also section 1.2, section 7 and Exposure Scenario - Annex I of this document.

Properties	Value	Method:	Notes:
Physical state:	Liquid	Visual	
Colour:	Green	Visual	
Odour:	Citrus	Olfactory	
Odour threshold:	Evident	Olfactory	
Melting point/freezing point:	Not Relevant		Parameter not relevant for the type of product
Boiling point or initial boiling point and boiling range:	>= 100 °C		Estimated value on chemical / physical properties of components
Flammability:	Non-flammabl e		Estimated parameter on chemical / physical properties c components.
Lower and upper explosion limit:	Not Relevant		Parameter not relevant for the type of product
Flash point:	> 60 ° C		Estimated value on chemical / physical properties of components
Auto-ignition temperature:	Not Relevant		Parameter not relevant for the type of product
Decomposition temperature:	Not Relevant		Parameter not relevant for the type of product
pH:	9,0 +/- 0,5	Instrumental control	
Kinematic viscosity:	2500 +/- 500 cP	Instrumental control	
Solubility in water:	Total		Internal tests
Solubility in oil:	Partial		Internal tests
Partition coefficient n-octanol/water (log value):	< 1000		Value estimated based on the solubility of the mixture.
Vapour pressure:	Not Relevant		Parameter not relevant for the type of product
Density and/or relative density:	1.024 g/ml	Instrumental control	-
Relative vapour density:	Not Relevant		Parameter not relevant for the type of product
	Particle cha		
Particle size:	Not Relevant		Parameter not relevant for the type of product

SECTION 9: Physical and chemical properties

9.2. Other information

No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity

Until the revision date of this document, no adverse effects and symptoms to exposure of the product are known, including chemical reactivity and instability.

- Do not use in combination with other products.
- 10.2. Chemical stability

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Until the revision date of this document, no adverse effects and symptoms to exposure of the product are known, including chemical reactivity and instability.

10.3. Possibility of hazardous reactions

Until the revision date of this document, no adverse effects and symptoms to exposure of the product are known, including chemical reactivity and instability. See also scetion 7.2.

In normal conditions no dangerous reactions of the mixture

10.4. Conditions to avoid

Different uses than recommended. Do not use in combination with other products. See also 1.2 and 7.2

Avoid direct sunlight and exposure to heat sources.

10.5. Incompatible materials

Until the revision date of this document, no adverse effects and symptoms to exposure of the product are known, including chemical reactivity and instability. see also 1.2 and 7.2.

10.6. Hazardous decomposition products Until the revision date of this document, no adverse effects and symptoms to exposure of the product are known, including chemical reactivity and instability. Do not use in combination with other products.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 Toxicological information of the product:

DIX PLUS

- a) acute toxicity
 - Not classified
 - Based on available data, the classification criteria are not met
- b) skin corrosion/irritation
 - The product is classified: Skin Irrit. 2 H315
- c) serious eye damage/irritation
 - The product is classified: Eye Irrit. 2 H319
- d) respiratory or skin sensitisation
 - Not classified

Based on available data, the classification criteria are not met

- e) germ cell mutagenicity
 - Not classified

Based on available data, the classification criteria are not met f) carcinogenicity

Not classified

Based on available data, the classification criteria are not met g) reproductive toxicity

Not classified

Based on available data, the classification criteria are not met h) STOT-single exposure

Not classified

Based on available data, the classification criteria are not met i) STOT-repeated exposure

Not classified

Based on available data, the classification criteria are not met j) aspiration hazard

. Not classified

Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:

Below are reported, if available, the toxicological information of the components listed in paragraph 3.2.

ALKYL ETHER SULFATE C12-14, SODIUM SALT - CAS: 68891-38-3 a) acute toxicity:

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Test: LD50 - Route: Oral > 2870 mg/kg - Source: OECD 401 Test: LD50 - Route: Skin > 2000 mg/kg - Source: OECD 402 b) skin corrosion/irritation: Test: Skin Irritant - Route: Skin Positive - Source: OECD 404 c) serious eye damage/irritation: Test: Eye Corrosive Positive - Source: OECD 405 d) respiratory or skin sensitisation: Test: Skin or Resp. Sensitization Negative - Source: OECD 406 e) germ cell mutagenicity: Test: Mutagenesis Negative - Source: Ames Test C12-14 ALKYLDIMETHYLAMINES, N-OXIDES - CAS: 308062-28-4 a) acute toxicity: Test: LD50 - Route: Oral - Species: Rat = 1064 mg/kg b) skin corrosion/irritation: Test: Skin Irritant - Route: Skin Positive c) serious eye damage/irritation: Test: Eve Corrosive Positive 1,2-BENZISOTIAZOL-3(2H)-ONE - CAS: 2634-33-5 a) acute toxicity: Test: LD50 - Route: Oral - Species: Rat = 670 mg/kg Test: LD50 - Route: Oral - Species: Rat = 784 mg/kg Test: LD50 - Route: Skin - Species: Rat > 2000 b) skin corrosion/irritation: Test: Skin Irritant - Species: Rabbit Positive - Duration: 4h c) serious eye damage/irritation: Test: Eye Corrosive - Species: Rabbit Positive d) respiratory or skin sensitisation: Test: Skin or Resp. Sensitization Positive e) germ cell mutagenicity: Test: Genotoxicity - Species: Salmonella Typhimurium Negative Test: Genotoxicity - Route: Oral - Species: Rat Negative SODIUM HYDROXIDE - CAS: 1310-73-2 b) skin corrosion/irritation: Test: Skin Corrosive Positive c) serious eye damage/irritation: Test: Eye Corrosive Positive e) germ cell mutagenicity: Negative h) STOT-single exposure: Negative i) STOT-repeated exposure: Negative 11.2. Information on other hazards Endocrine disrupting properties: No endocrine disruptor substances present in concentration >= 0.1%

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment. Until the revision date of this document, are not available experimental data on the mixture. Below are reported, if available, the eco-toxicological information of the components listed in paragraph 3.2.

DIX PLUS

The product is classified: Aquatic Chronic 3 - H412 ALKYL ETHER SULFATE C12-14, SODIUM SALT - CAS: 68891-38-3

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a) Aquatic acute toxicity: Endpoint: LC50 - Species: Fish = 7.1 mg/l - Duration h: 96 Endpoint: EC50 - Species: Daphnia = 7.4 mg/l - Duration h: 48 Endpoint: EC50 - Species: Algae = 27.7 mg/l - Duration h: 72 b) Aquatic chronic toxicity: Endpoint: NOEC - Species: Fish = 0.14 mg/l - Duration h: 672 Endpoint: NOEC - Species: Daphnia = 0.27 mg/l - Duration h: 504 Endpoint: NOEC - Species: Algae = 0.95 mg/l - Duration h: 72 C12-14 ALKYLDIMETHYLAMINES, N-OXIDES - CAS: 308062-28-4 a) Aquatic acute toxicity: Endpoint: LC50 - Species: Fish = 2.67 mg/l Endpoint: EC50 - Species: Daphnia = 3.1 mg/l Endpoint: EC50 - Species: Algae = 0.19 mg/l b) Aquatic chronic toxicity: Endpoint: NOEC = 0.067 mg/l 1,2-BENZISOTIAZOL-3(2H)-ONE - CAS: 2634-33-5 a) Aquatic acute toxicity: Endpoint: LC50 - Species: Fish = 2.18 mg/l - Duration h: 96 - Notes: Oncorhynchus mvkiss Endpoint: EC50 - Species: Daphnia = 2.94 mg/l - Duration h: 48 - Notes: Daphnia magna Endpoint: LC101 - Species: Algae = 0.11 mg/l - Duration h: 72 - Notes: Selenastrum capricornutum b) Aquatic chronic toxicity: Endpoint: NOEC = 1.7 mg/l - Duration h: 504 - Notes: Daphnia c) Bacteria toxicity: Endpoint: EC50 = 23 mg/l - Duration h: 3 - Notes: Fango attivo Endpoint: NOEC = 10 mg/l - Duration h: 3 - Notes: Fango attivo Endpoint: EC50 = 0.08 mg/l - Duration h: 96 - Notes: Cianobatteri SODIUM HYDROXIDE - CAS: 1310-73-2 a) Aquatic acute toxicity: Endpoint: LC50 - Species: Fish = 35 mg/l - Duration h: 96 Endpoint: EC50 - Species: Daphnia = 40.4 mg/l - Duration h: 48 - Notes: Ceriodaphnia dubia 12.2. Persistence and degradability Until the revision date of this document, are not available experimental data on the mixture. Below are reported, if available, the eco-toxicological information of the components listed in paragraph 3.2. ALKYL ETHER SULFATE C12-14, SODIUM SALT - CAS: 68891-38-3 Biodegradability: Persistence C12-14 ALKYLDIMETHYLAMINES, N-OXIDES - CAS: 308062-28-4 Biodegradability: Readily biodegradable - Test: BIODEG17 - %: > 80 1,2-BENZISOTIAZOL-3(2H)-ONE - CAS: 2634-33-5 Biodegradability: Readily biodegradable - Duration: 28 days - %: > 70% The surfactant(s) contained in this preparation complies with the biodegradability criteria laid down in Regulation (EC) No 648/2004 on detergents. All supporting data are kept available to the competent authorities of the Member States and will be provided to those authorities if they so request or at the request of a detergent manufacturer. 12.3. Bioaccumulative potential Until the revision date of this document, are not available experimental data on the mixture. Below are reported, if available, the eco-toxicological information of the components listed in

Below are reported, if a paragraph 3.2.

C12-14 ALKYLDIMETHYLAMINES, N-OXIDES - CAS: 308062-28-4

Bioaccumulation: Slightly bioaccumulative - Test: Log Pow - Partition coefficient 2.7 12.4. Mobility in soil

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Until the revision date of this document, are not available experimental data on the mixture. Below are reported, if available, the eco-toxicological information of the components listed in paragraph 3.2.

- Not applicable
- 12.5. Results of PBT and vPvB assessment
 - vPvB Substances: None PBT Substances: None
- 12.6. Endocrine disrupting properties
 - No endocrine disruptor substances present in concentration >= 0.1%
- 12.7. Other adverse effects

Until the revision date of this document, unknown adverse effects and symptoms towards the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force. Do not discharge into the ground or into drains. See also section 6.

SECTION 14: Transport information

14.1. UN number or ID number

Not classified as dangerous in the meaning of transport regulations.

- 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 ADR-Enviromental Pollutant: No IMDG-Marine pollutant: No
- 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 Dir. 98/24/EC (Risks related to chemical agents at work) Dir. 2000/39/EC (Occupational exposure limit values) Regulation (EC) n. 1907/2006 (REACH) Regulation (EC) n. 1272/2008 (CLP) Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013 Regulation (EU) n. 2020/878 Regulation (EU) n. 286/2011 (ATP 2 CLP) Regulation (EU) n. 618/2012 (ATP 3 CLP) Regulation (EU) n. 487/2013 (ATP 4 CLP) Regulation (EU) n. 944/2013 (ATP 5 CLP) Regulation (EU) n. 605/2014 (ATP 6 CLP) Regulation (EU) n. 2015/1221 (ATP 7 CLP) Regulation (EU) n. 2016/918 (ATP 8 CLP) Regulation (EU) n. 2016/1179 (ATP 9 CLP) Regulation (EU) n. 2017/776 (ATP 10 CLP)

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Regulation (EU) n. 2018/669 (ATP 11 CLP) Regulation (EU) n. 2018/1480 (ATP 13 CLP) Regulation (EU) n. 2019/521 (ATP 12 CLP) Regulation (EU) n. 2020/217 (ATP 14 CLP) Regulation (EU) n. 2020/1182 (ATP 15 CLP) Regulation (EU) n. 2021/643 (ATP 16 CLP) Regulation (EU) n. 2021/849 (ATP 17 CLP) Regulation (EU) n. 2022/692 (ATP 18 CLP) Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications: None Where applicable, refer to the following regulatory provisions : Directive 2012/18/EU (Seveso III) Regulation (EC) nr 648/2004 (detergents). Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III): Seveso III category according to Annex 1, part 1 None

15.2. Chemical safety assessment

No, for instructions on safe mangling you see Sections 7 and 8 and the exposure scenario - Annex I of this document.

A Chemical Safety Assessment has been carried out for the mixture.

No Chemical Safety Assessment has been carried out for the mixture.

Substances for which a Chemical Safety Assessment has been carried out: None

SECTION 16: Other information

Full text of phrases referred to in Section 3:

H315 Causes skin irritation.

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

H319 Causes serious eye irritation.

H302 Harmful if swallowed.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

H317 May cause an allergic skin reaction.

H314 Causes severe skin burns and eye damage.

H290 May be corrosive to metals.

Hazard class and hazard category	Code	Description
Met. Corr. 1	2.16/1	Substance or mixture corrosive to metals, Category 1
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Skin Corr. 1A	3.2/1A	Skin corrosion, Category 1A
Skin Corr. 1B	3.2/1B	Skin corrosion, Category 1B
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Eye Irrit. 2	3.3/2	Eye irritation, Category 2



Skin Sens. 1	3.4.2/1	Skin Sensitisation, Category 1
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 2	4.1/C2	Chronic (long term) aquatic hazard, category 2
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3

This safety data sheet has been completely updated in compliance to Regulation 2020/878. Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Eye Irrit. 2, H319	Bridge principle 'Mixtures substantially similar'
Skin Irrit. 2, H315	Calculation method
Aquatic Chronic 3, H412	Calculation method

This document was prepared by a competent person who has received appropriate training. Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EC0/10/20/50/100:	Effective concentration, for 0/10/20/50/100 percent of test population.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association"
	(IATĂ).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization"
	(ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC0/10/20/50/100:	Lethal concentration, for 0/10/20/50/100 percent of test population.
LD0/10/20/50/100:	Lethal dose, for 0/10/20/50/100 percent of test population.
NOEC:	No Observed Effect Concentration
NOAEL(R)/NOAEC:	No Observed Adverse Effect Level(Repeated)/Concentration
OECD:	Organisation for Economic Co-operation and Development
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by

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	Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.



ANNEX I

PROFESSIONAL PRODUCT – LAUNDRY or AUTOMATIC DISHWASH DETERGENT

Detergent for general cleaning: Manual or machi	ne process.
Use description	
Sector Use	SU22 – Professional use
Product Category	PC35 – Washing and cleaning products (including
	solvent based products)
Description of activities/process considered	
Use the recommended dose according to water	hardness and degree of soiling, following the instructions on
the label or technical data sheet.	
Frequency and duration	
Use phase	1 or more times a day. Duration depends on washing
	program.
Relevant limit values of ingredients, if available,	are stated in section 8 of the SDS.
Physical appearence and concentration	
Liquid or powder. To dilute.	
In section 2 of the SDS of product and on the lab	
	ssification and on chemical/physical properties stated in
section 9 of the SDS of product.	
Use conditions	
Room temperature /for recommended washing to	emperature see label or tecnica sheet.
Protection	
See section 8 of the SDS of product to more	Training of worker to use and maintenance of PPE is
information on PPE.	supposed.
Don't eat or drink, don't smoke.	Avoid contact with damaged skin.
No open flame.	Do not use in combination with other products
Wash hand after use.	
In case of accidental release: dilute with water a	nd dry.
	r on technical sheet. Use good occupational hygiene
practices as specified in section 7 on the SDS.	
Environmental measures	
See section 6 of the SDS in case of accidental re	
	formation of mixture and dangerous ingredients.
See section 13 of the SDS for disposal consideration	ations

Note:

SDS: Safety Data Sheet PPE: Personal Protection Equipment