Safety Data Sheet

Compliant with Annex II of REACH - Regulation (EU) 2020/878

SECTION 1. Identification of the substance/mixture and company/firm

1.1. Product identifier

Code: **LCCB**
Name **COMBICLEAN BOOSTED**

1.2. Identified uses related to the substance or mixture and recommended uses

Description/Use **Degreaser cleaner**

1.3. Information about the supplier of the safety data sheet

Company name **Ali Group S.r.l.**
Address **Via Schiaparelli 15**
City and country **31029 Vittorio Veneto (TV)**
Italy

tel. +39 0438 9110

fax

email address of the contact person,

In charge of the safety data sheet **lainox@lainox.com**
Head of market release: **ALI Group Srl**

1.4. Emergency telephone number

For urgent information, please contact

Milan Poison Centre +39 02 66101029 (CAV Niguarda Ca' Granda Hospital - Milan) (H24)
Pavia Poison Centre +39 0382 24444 (CAV IRCCS Maugeri Foundation - Pavia)
Poison Centre Bergamo 800 883300 (CAV Riuniti Hospital - Bergamo)
Florence Poison Centre +39 055 7947819 (CAV Careggi Hospital - Florence)
Rome Poison Centre +39 06 3054343 (CAV Policlinico Gemelli - Rome)
Rome Poison Centre +39 06 49978000 (CAV Policlinico Umberto I - Rome)
Naples Poison Centre +39 081 7472870 (CAV Cardarelli Hospital - Naples)
The list of poison centres (CAV) authorised to access the Archive of Dangerous Preparations can be consulted via the link https://preparatipericolosi.iss.it/cav.

SECTION 2. Hazard identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions under Regulation (EC) 1272/2008 (CLP) (and successive amendments and repeals). The product, therefore, requires a safety data sheet that complies with the provisions of Regulation (EU) 2020/878.
Any additional information regarding the risks for health and/or the environment are outlined in sections 11 and 12 of this data sheet.

Hazard classification and indications:

Substance or corrosive mixture for metals, category 1	H290	May be corrosive for metals.
Skin corrosion, category 1A	H314	Causes severe skin burns and eye damage.
Severe eye damage, category 1	H318	Causes serious eye damage.

2.2. Label elements

Hazard labelling pursuant to Regulation (EC) 1272/2008 (CLP) and successive amendments and repeals.

Hazard pictograms:

Cautions: Hazard

Hazard indications:

H290	May be corrosive for metals.
H314	Causes severe skin burns and eye damage.

Precautionary statements:

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P303+P361+P353	IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower.
P280	Wear protective gloves and protective clothing and protect eyes and face.
P310	Immediately call a POISON CENTER.
P264	Wash hands thoroughly after use.
P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

Contains: SODIUM HYDROXIDE
SODIUM ETHYLENEDIAMINETETRAACETATE

Ingredients in accordance with Regulation (EC) No. 648/2004

Less than 5% phosphonates, cationic surfactants, amphoteric surfactants, non-ionic surfactants, EDTA (ethylenediaminetetraacetic acid), sodium salt

2.3. Other hazards

Based on the available data, the product contains no PBT or vPvB substances in percentage ≥ 0.1%.

The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.

SECTION 3. Composition/information about the ingredients

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)

SODIUM HYDROXIDE		
CAS 1310-73-2	5 – 15	Met. Corr. 1 H290, Skin Corr. 1A H314, Eye Dam. 1 H318
EC 215-185-5		Skin Corr. 1B H314: ≥ 2%, Skin Irrit. 2 H315: ≥ 0.5%, Eye Dam. 1 H318: ≥ 2%, Eye Irrit. 2 H319: ≥ 0.5%
INDEX 011-002-00-6		
Reg. No. 01-2119486762-27-XXXX		
SODIUM ETHYLENEDIAMINETETRAACETATE		
CAS 64-02-8	1 - 5	Acute Tox. 4 H302, Acute Tox. 4 H332, STOT RE 2 H373, Eye Dam. 1 H318
CE 200-573-9		LD50 Oral: 1780 mg/kg, LC50 Inhalation of mists/dusts: <5 mg/l/4h
INDEX 607-428-00-2		
Reg. No. 01-2119486762-27-XXXX		
ETHOXYLATED ALCOHOL		
CAS 68439-46-3	1 – 5	Eye Irrit. 2 H319
CE		
INDEX -		

The complete test of the hazard indications (H) is outlined in section 16 of the data sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove any contact lenses. Rinse immediately with plenty of water for at least 30/60 minutes, while holding the eyelids apart. Seek medical advice immediately.
SKIN: Remove any contaminated clothing. Take a shower immediately. Seek medical advice immediately.
INGESTION: Drink as much water as possible. Seek medical advice immediately. Do not induce vomiting unless expressly authorised by medical personnel.
INHALATION: Seek medical advice immediately. Take the patient outside, away from the site of the accident. If the patient stops breathing, administer artificial respiration. Adopt suitable precautions for the responder.

4.2. Main symptoms and effects both acute and delayed

No specific information is known about the symptoms and effects caused by the product.

4.3. Indication of whether it is necessary to immediately consult a doctor or special treatments

Information not available

SECTION 5. Fire prevention measures

5.1. Extinguishing agents

SUITABLE EXTINGUISHING AGENTS
The extinguishing agents are the conventional kind: carbon dioxide, foam, powder and nebulised water.
UNSUITABLE EXTINGUISHING AGENTS
None in particular.

5.2. Special hazards caused by the substance or mixture

HAZARDS DUE TO EXPOSURE IN THE EVENT OF FIRE
Avoid breathing in combustion products.

5.3. Recommendations for firefighters

GENERAL INFORMATION
Cool the containers with water jets to prevent the decomposition of the product and the development of substances which could be a health hazard. Always wear the full fire prevention protection equipment. Collect the water used to put out the fire which must not be discharged into the drains. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.
EQUIPMENT
Normal firefighting clothing, such as an open circuit, compressed air self-contained breathing apparatus (EN 137), firefighting suit (EN469), protective gloves (EN 659) and firefighter boots (HO A29 or A30).

SECTION 6. Measures in the event of accidental spills

6.1. Personal precautions, protection equipment and procedures in the event of an emergency

Stop the leak if there is no hazard.

6.1.1 For those people who do not intervene directly: Move away from the area surrounding the spill or leak. Do not smoke. Put on a mask, gloves and protective clothing.

6.1.2 For those people who intervene directly: Put on a mask, gloves and protective clothing. Eliminate all naked flames and possible sources of ignition. Do not smoke. Make sure there is adequate ventilation. Evacuate the hazard area and consult an expert, if necessary.

Wear suitable protective equipment (including the personal protective equipment under section 8 of the safety data sheet) in order to prevent contamination of the skin, eyes and personal clothing. These indications are valid both for processing technicians and for emergency interventions.

6.2. Environmental precautions

Prevent the product from entering the sewage systems, water courses and ground water.

6.3. Methods and material for containment and cleaning up

Suction the leaked product into a suitable container. Assess the compatibility of the container to use with the product, by checking against section 10. Absorb the remaining product with inert absorbent material.
Ensure adequate ventilation. Disposal of the contaminated material must be carried in compliance with the provisions of point 13.

6.4. Reference to other sections

Any information about individual protection and the disposal are outlined in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Handle the product after consulting all the other sections of this safety data sheet. Avoid contact with eyes and skin. Do not inhale any dusts, vapours or mists. Do not drink, eat or smoke when using. Wash hands after use. Do not disperse of the product in the environment.

7.2. Conditions for safe storage, including any incompatibilities

Only store in the original container. Store in a ventilated place, keep away from ignition sources. Keep the containers tightly sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent impacts. Keep the containers away from any incompatible material, checking against section 10.

Storage class TRGS 510 (Germany): 8B

7.3. Specific end uses

Information not available

SECTION 8. Exposure control/personal protection

8.1. Control parameters

Legislative references:

GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
	TLV-ACGIH	ACGIH 2021

SODIUM HYDROXIDE
Threshold limit value

Type	State	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
WEL	GBR			2	
TLV-ACGIH				2 (C)	

Key:

(C) = CEILING ; INALAB = Inhalable fraction ; RESPIR = Breathable fraction ; TORAC = Thoracic fraction.

8.2. Exposure controls

Considering that the use of adequate technical measures should always take priority over personal protection equipment, ensure good ventilation in the workplace through effective local extraction.
When choosing personal protective equipment, ask your chemical substance suppliers for any advice.
Personal protective equipment must bear the CE marking which indicates compliance with the laws in force.

Provide emergency shower facilities with eye baths.

HAND PROTECTION
Protect hands with category III nitrile, nitrile-coated work gloves (ref. Standard EN 374).
When choosing the material of the work gloves, you should consider: compatibility, degradation, breakthrough times and permeation rates.
In the case of preparations, resistance of work gloves to chemical agents must be checked before use, as it is unpredictable. Gloves have a wear time that depends on how long and how they area used.

SKIN PROTECTION
Wear work clothes with long sleeves and safety footwear for professional use, category III (ref. Regulation 2016/425 and EN ISO 20344 standard). Wash with soap and water after removing protective clothing.

EYE PROTECTION
It is advisable to wear a hooded visor or protective visor combined with tightly fitting goggles (ref. standard EN 166).

RESPIRATORY PROTECTION
The use of measures to protect the airways is required if the technical measures are not sufficient to limit the exposure of workers to the threshold values taken into account. The protection offered by the mask is, however, limited.

ENVIRONMENTAL EXPOSURE CONTROLS

Emissions from production processes, including those from ventilation equipment, should be checked for compliance with environmental protection regulations.

SECTION 9. Physical and chemical properties

9.1. Information about fundamental physical and chemical properties

Property	Value	Information
Physical state	liquid	
Colour	Amber	
Odour	characteristic smell	
Flash point	> 60 °C	
pH	12.50 +/- 0.50	Concentration: 1 %
Density and/or relative density	1.14 +/- 0.05	

9.2. Other information

9.2.1. Information on physical hazard class

Information not available

9.2.2. Other safety characteristics

VOC (Directive 2010/75/UE)	0
VOC (volatile carbon)	0

SECTION 10. Stability and reactivity

10.1. Reactivity

There are not particular reaction hazards with other substances under normal conditions of use.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseen under 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.

SODIUM HYDROXIDE

Avoid exposure to: air, moisture, heat sources.

10.5. Incompatible materials

SODIUM HYDROXIDE

Incompatible with: strong acids, ammonia, zinc, lead, aluminium, water, flammable liquids.

10.6. Hazardous decomposition products

Information not available

SECTION 11. Toxicological information

In the absence of experimental toxicological data on the product in question, the possible dangers of the product to the health have been assessed on the basis of the properties of the substances it contains, according to the criteria laid down by the reference legislation for classification.
Therefore, consider the concentration of the individual hazardous substances which may be mentioned in section. 3, when assessing the toxicological effects caused by exposure to the product.

11.1. Information about the toxicological effects

Metabolism, kinetics, mechanism of action and other information

Information not available

Information on probable exposure pathways

Information not available

Immediate or delayed effects and chronic effects due to short or long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation - mists / dusts) of the mixture:	> 5 mg/l
ATE (Oral) of the mixture:	>2000 mg/kg
ATE (Skin) of the mixture:	Unclassified (no significant component)

TETRASODIUM ETHYLENEIAMINOTETRAACETATE

LD50 (Oral):	1780 mg/kg Rat
LC50 (Inhalation of mists/dusts):	< 5 mg/l/4h Rat

SODIUM HYDROXIDE

LD50 (Oral) 1350 mg/kg Rat

LD50 (Skin) 1350 mg/kg Rat

ETHOXYLATED ALCOHOL

LD50 oral rat >2000 mg/Kg

SKIN CORROSION/SKIN IRRITATION

Corrosive for the skin

SERIOUS EYE DAMAGE/EYE IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

Does not respond to classification criteria for this hazard class

Respiratory sensitisation

Information not available

Skin sensitisation

Information not available

GERM CELL MUTAGENICITY

Does not respond to classification criteria for this hazard class

CARCINOGENICITY

Does not respond to classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not respond to classification criteria for this hazard class

Harmful effects of sexual function and fertility

Information not available

Harmful effects of the development of progeny

Information not available

Effects on breastfeeding or through breastfeeding

Information not available

SPECIFIC TARGET ORGAN TOXICITY (STOT) - SINGLE EXPOSURE

Does not respond to classification criteria for this hazard class

Target organs

Information not available

Exposure routes

Information not available

SPECIFIC TARGET ORGAN TOXICITY (STOT) - REPEATED EXPOSURE

Does not respond to classification criteria for this hazard class

Target organs

Information not available

Exposure routes

Information not available

ASPIRATION HAZARD

Does not respond to classification criteria for this hazard class

11.2. Information about other hazards

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

SECTION 12. Ecological information

Use according to good working practice, avoiding dispersion of the product in the environment. Notify the competent authorities if the product has reached water courses or if it has contaminated the soil or vegetation.

12.1. Toxicity

ETHOXYLATED ALCOHOL	
LC50 - Fish	10 mg/l/96h
EC50 - Crustaceans	10 mg/l/48h
EC50 - Algae/Aquatic plants	10 mg/l/72h
TETRASODIUM ETHYLENEIAMINOTETRAACETATE	
LC50 - Fish	> 100 mg/l/96h
EC50 - Crustaceans	> 100 mg/l/48h

EC50 - Algae/Aquatic plants	> 100 mg/l/72h
NOEC Chronic Fish	> 36.9 mg/l

12.2. Persistence and degradability

ETHOXYLATED ALCOHOL
Rapidly degradable

SODIUM HYDROXIDE

Solubility in water	> 10000 mg/l

Degradability: data not available

12.3. Bioaccumulation potential

Bioaccumulation not expected

12.4. Mobility in soil

The mixture diffuses in water and can permeate into the soil.

12.5. Results of PBT and vPvB assessment

Based on the available data, the product does not contain PBT or vPvB substances in percentages over 0.1%.

12.6. Other adverse effects

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

SECTION 13. Advice for disposal

13.1. Waste treatment methods

Re-use, if possible. Product residue should be treated as special hazardous waste. The hazardous properties of waste that partly contain this product must be assessed according to the laws in force.
Disposal must be carried out by a company authorised for waste management, in compliance with the national and local legislation.
The transport of waste may be subject to the ADR. Do not dispose of in waste water.
CONTAMINATED PACKAGING
Contaminated packaging must be sent for recovery or disposal in compliance with national laws for waste management.

SECTION 14. Transport information

14.1. UN number or ID number

ADR / RID, IMDG, IATA: 1824

14.2. UN shipping name

ADR / RID:	SODIUM HYDROXIDE SOLUTION
IMDG:	SODIUM HYDROXIDE SOLUTION
IATA:	SODIUM HYDROXIDE SOLUTION

14.3. Transport hazard classes

ADR / RID:	Class: 8	Label: 8
IMDG:	Class: 8	Label: 8
IATA:	Class: 8	Label: 8

14.4. Packing group

ADR / RID, IMDG, IATA:	II

14.5. Environmental hazards

ADR / RID:	NO
IMDG:	NO
IATA:	NO

14.6. Special precautions for users

ADR / RID:	HIN - Kemler: 80	Limited quantity: 1 L	Tunnel restriction code: (E)
	Special provision: -		
IMDG:	EMS: F-A, S-B	Limited quantity: 1 L	
IATA:	Cargo:	Maximum quantity: 30 L	Packing instructions: 855
	Pass.:	Maximum quantity: 1 L	Packing instructions: 851
	Special provision:	A3, A803	

14.7. Bulk maritime transport in compliance with the measures of the IMO

Information not applicable

SECTION 15. Information on regulation

15.1. Legislative and regulatory provisions on health, safety and the environment specific to the substance or mixture

Seveso category - Directive 2012/18/EC: None

Restrictions on the product or substances contained in it according to Annex XVII Regulation (EC) 1907/2006

Product

Point 3

Substances contained

Point 75

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

Not applicable

Substances in Candidate List (Art. 59 REACH)

Based on the available data, the product contains no SVHC substances in percentage ≥ 0.1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to export notification obligation Reg. (EC) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Health checks

Workers exposed to this chemical agent which is hazardous to the health must undergo health monitoring carried out according to the provisions of art. 41 of Italian Leg. Decree 81 of 9 April 2008 unless the risk for the health and safety of the worker has been deemed irrelevant, according to the provisions of art. 224 paragraph 2.

15.2. Chemical safety assessment

A chemical safety assessment has not been prepared for the mixture. Exposure scenarios of the substances mentioned in paragraph 3.2 are made available on request, where relevant.

SECTION 16. Other information

Text of the hazard indications (H) quoted in sections 2-3 of the data sheet:

Met. Corr. 1	Substance or corrosive mixture for metals, category 1
Acute Tox. 4	Acute toxicity, category 4

STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Skin Corr. 1A	Skin corrosion, category 1A
Eye Dam. 1	Severe eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
H290	May be corrosive for metals.
H332	Harmful if inhaled.
H373	May cause damage to organs in the event of prolonged or repeated exposure.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

KEY:
- ADR: European agreement for the transport of hazardous goods by road
- CAS NUMBER: Chemical Abstract Service Number
- EC50: Concentration that affects 50% of the population subjected to tests
- EC NUMBER: Identification number in ESIS (European archive of existing substances)
- CLP: Regulation EC 1272/2008
- DNEL: Derived No-Effect Level
- EmS: Emergency Schedule
- GHS: Global harmonised system for the classification and labelling of chemical products
- IATA DGR: Regulation for the transportation of hazardous goods of the international association of air transport
- IC50: Immobilisation concentration of 50% of the population subjected to tests
- IMDG: International maritime code for the transportation of hazardous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identification number of Annex VI of the CLP
- LC50: Lethal concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational exposure limit
- PBT: Persistent, bioaccumulative and toxic according to REACH
- PEC: Predicted environmental concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation EC 1907/2006
- RID: Regulation for international transportation of hazardous goods by train
- TLV: Threshold limit value
- TLV CEILING: Concentration which must not be exceeded at any time during working exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average
- VOC: Volatile organic compound
- vPvB: Very persistent and very bioaccumulative according to REACH
- WGK: Water hazard classes (Germany).

GENERAL BIBLIOGRAPHY:
1. Regulation (EC) 1907/2006 of the European Parliament (REACH)
2. Regulation (EC) 1272/2008 of the European Parliament (CLP)
3. Regulation (EU) 2020/878 (Ann. II REACH Regulation)
4. Regulation (EU) 790/2009 of the European Parliament (I Atp. CLP)
5. Regulation (EU) 286/2011 of the European Parliament (II Atp. CLP)
6. Regulation (EU) 618/2012 of the European Parliament (III Atp. CLP)
7. Regulation (EU) 487/2013 of the European Parliament (IV Atp. CLP)
8. Regulation (EU) 944/2013 of the European Parliament (V Atp. CLP)
9. Regulation (EU) 605/2014 of the European Parliament (VI Atp. CLP)
10. Regulation (EU) 2015/1221 of the European Parliament (VII Atp. CLP)
11. Regulation (EU) 2016/918 of the European Parliament (VIII Atp. CLP)
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 (EU) 2018/1480 (XIII Atp. CLP)
17. Regulation (EU) 2019/1148
18. Delegated regulation (EU) 2020/217 (XIV Atp. CLP)
19. Delegated regulation (EU) 2020/1182 (XV Atp. CLP)
20. Delegated regulation (EU) 2021/643 (XVI Atp. CLP)
21. Delegated regulation (EU) 2021/849 (XVII 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 Agency website
- Database of SDS models for chemical substances - Ministry of Health and Higher Health Institute

Note for user:
The information contained in this data sheet is based on the knowledge available to us on the date of the latest version. The user must check the suitability and completeness of the information in relation to the specific product use.
This document should not be interpreted as a guarantee of any specific property of the product.
Since the use of the product does not fall directly under our control, the user is obliged to observe the laws and provisions, under his own responsibility, in force concerning safety and hygiene. No responsibility is assumed for improper use.
Provide adequate training for staff in charge of using chemical products.
CLASSIFICATION CALCULATION METHODS
physical chemical hazards: The product classification was taken from the criteria laid down by the CLP Regulation Annex I Part 2. The assessment methods of the physical and chemistry are indicated in section 9.
Health hazards: The classification of the product is based on the calculation methods set out in Annex I of CLP Part 3, unless otherwise indicated in section 11.
Environmental hazards: The classification of the product is based on the calculation methods set out in Annex I of CLP Part 4, unless otherwise indicated in section 12.

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Safety Profile according to Regulation 1907/2006/EC, and subsequent amendments.

SODIUM HYDROXIDE/SODIUM HYDROXIDE

1. Short title of exposure scenario 2: Professional use		
Main user groups	SU 22: Professional uses: public sector (administration, education, entertainment, services, crafts)	
Process categories	PROC1: Use in closed process, no probability of exposure PROC2: Use in a closed, continuous process, with occasional controlled exposure PROC3: Use in a closed batch process (synthesis or formulation) PROC4: Use in batch and other processes (synthesis), where exposure opportunities occur PROC5: Mixing or blending in batch processes for the formulation of preparations and articles (contact at different stages and/or major contact) PROC8a: Transfer of a substance or preparation (filling/emptying) from/to containers/large containers, in non-dedicated facilities PROC8b: Transfer of a substance or preparation (filling/emptying) from/to vessels/large containers in dedicated facilities. PROC9: Transfer of a substance or preparation into small containers (dedicated filling line, including weighing)PROC10: Application with rollers or brushes PROC11: Non-industrial spray application PROC13: Treatment of articles by dipping and casting PROC15: Use as laboratory reagents PROC19: Manual mixing with direct contact, with the sole use of personal protective equipment PROC23: Processing and transfer operations in open processes with minerals/metals at elevated temperatures PROC24: High energy (mechanical) processing of substances integrated into materials and/or articles	
Environmental release category	ERC8a: Wide dispersive indoor use of processing aids in open systems ERC8b: Wide dispersive indoor use of reactive substances in open systems ERC8d: Wide dispersive external use of processing aids in open systems ERC9a: Wide dispersive internal use of substances in closed systems	
2.1 Contributing scenario controlling environmental exposure for: ERC8a, ERC8b, ERC8d, ERC9a		
Product features	Concentration of the substance in the Mixture/Article	It covers a percentage of substance in the product up to 100%.
Other specified operational conditions affecting environmental exposure	Continuous exposure	

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Technical conditions and measures at process level to avoid leaks. Local technical situations and measures to reduce or limit landfills, emissions into the air and leaks to the ground	Application area	Professional use
	Waterfall	Regular pH control is required in the case of discharges into open waters. In general, discharges should occur in such a way as to minimize changes to the pH of the receiving surface waters. In general, most aquatic organisms are able to tolerate pH values in the range 6-9, as also reported in the description of the standard OECD tests on aquatic organisms. The risk management measures for the environment are aimed at avoiding discharge into municipal sewers or surface waters, in the event that such discharges are capable of causing significant changes in pH.
Organizational measures to avoid/ limit leaks from the site		
Conditions and measures regarding the external treatment of waste destined for disposal	Disposal methods	The waste should be reused or sent to industrial wastewater and neutralized if necessary.
2.2 Contributing scenario that controls worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC15, PROC19, PROC23, PROC24		
Product features	Concentration of the substance in the Mixture/Article	It covers a percentage of substance in the product up to 100%.
	Concentration of the substance in the Mixture/Article	Concentration of the substance in the product: > 2%
Frequency and duration of use	Frequency of use	8 hours/day
	Frequency of use	200 days/year
Technical conditions and measures to control dispersion from the source towards the worker	Application area	Professional use
	Use tongs with long handles to avoid direct contact and exposure to splashes (do not work over other people's heads). Where possible use pumps and dispensers specifically designed to prevent splashes/spills and exposures.	
Organizational measures to avoid/ limit spills, dispersion and exposure	Application area	Professional use
	Replace, where possible, manual processes with automated and/or closed-loop processes. This would prevent the formation of irritating mists and aerosols and potential splashes. Workers present in risk areas or involved in risk work processes should be trained to: a) avoid working without respiratory protection b) understand the corrosive properties and, especially, the resulting effects of inhalation and c) follow instructions safety instructions given by the employer. The employer must ensure that the required PPE is available and that it is used in accordance with the relevant instructions.	
Conditions and measures regarding personal protection, hygiene and health assessment	Application area	Professional use
	In case of dust or aerosol formation, use PPE to protect the respiratory tract with a special filter (P2). Wear chemical resistant gloves. material: butyl rubber, PVC, polychloroprene with natural latex coating, thickness: 0.5 mm, permeation time: > 480min material: nitrile rubber, fluorinated rubber, thickness: 0.35-0.4 mm, permeation time: > 480 min. In case of risk of splashes: wear tight safety glasses, face shield. Wear suitable protective clothing, aprons, shields and overalls. Rubber or plastic boots.	

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3. Assessment of exposure and reference to its origin

Environment

The effects on the aquatic environment and the risk assessment refer to the consequences on organisms/ecosystems due to the modification of the pH due to the release of OH- ions, given that the toxicity of the metal ion is considered negligible compared to the (potential) effect due to the change in pH. The high solubility in water and the low vapor pressure indicate that the substance will be found predominantly in water. If risk management measures are implemented there will be no exposure from activated sludge from treatment plants and receiving water bodies. Sediments were not considered as they were not considered relevant for the substance. In case of release into the aquatic environment, the adsorption of the substance in sediments is negligible. Given the low vapor pressure, significant emissions of the substance into the air are not foreseeable. If released into the air in the form of a water-based aerosol, the substance will be rapidly neutralized by reaction with carbon dioxide (or acid gases). Significant emissions into the ground are not foreseeable. The application of sludge on agricultural land is not significant, given that the substance is not absorbed on particulate matter in water treatment plants. In case of releases on the soil, the adsorption to the soil will be negligible. Depending on the buffer capacity of the soil, the OH- ions will be neutralized in the water

Workers

PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC14, PROC15, PROC19, PROC23, PROC24: ECETOC TRA worker V3

Contributing scenario	Specific conditions	Route of exposure	Exposure level	RCR
PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13 PROC14, PROC15, PROC19, PROC23, PROC24	liquid, no LEV, no RPE (respiratory protective devices)	Worker - inhalation, short term - local effects	0,17 mg/m^3	---
PROC1, PROC2	solid, no LEV, no RPE (respiratory protective devices)	Worker - inhalation, short term - local effects	0,01 mg/m^3	---
PROC3, PROC15	solid, no LEV, no RPE (respiratory protective devices)	Worker - inhalation, short term - local effects	0,1 mg/m^3	---
PROC8a, PROC8b, PROC9, PROC10, PROC13 PROC19	solid, no LEV, no RPE (respiratory protective devices)	Worker - inhalation, short term - local effects	0,5 mg/m^3	---
PROC23	solid, with RPE (90%)	Worker - inhalation, short term - local effects	0,4 mg/m^3	---

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PROC24	solid, with RPE (90%)	Worker - inhalation, short term - local effects	0,5 mg/m^3	---

This substance is corrosive. During the handling of corrosive substances and mixtures, contact with the skin occurs only occasionally and repeated daily exposure by dermal contact is considered insignificant. Exposure to the substance by dermal contact has not been quantified. The substance is not considered available for systemic absorption into the body during normal conditions of handling and use. No systemic effects are expected due to exposure by inhalation or dermal contact. Based on measurements taken in the workplace and following the risk management measures established to control worker exposure, inhalation exposure is lower than the DNEL.

4. Guidance for downstream users to assess whether it works within the limits set by the Exposure Scenario

The downstream user (DU) operates within the limits set by the ES if the proposed risk management measures described above are respected or if he can demonstrate that his operational conditions and implemented risk management measures are adequate. This must be demonstrated to limit inhalation and dermal exposure to a level below the respective DNEL (as the processes and activities in question are covered by the PROCs listed above) as specified below. If no measured data is available, the downstream user can make use of a suitable scaling tool such as ECETOC TRA. Important note: By demonstrating safe use, compared to exposure estimates with the long-term DNEL, the acute DNEL is also covered (according to R.14 guidance, acute exposure levels can be derived by multiplying the long-term exposure estimates by a factor of 2).

Additional good practice advice beyond the REACH Chemical Safety Assessment

Local ventilation is not required but is considered good practice.
General ventilation is good practice unless local ventilation is present.

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TETRASODIUM ETHYLENEDIAMINOTETRAACETATE /

ETHYLENEIAMINOTETRAACETATE OF TETRASODIUM

End use (industrial, professional)
SU0-1, SU22; ERC4, ERC5, ERC6b, ERC7, ERC8a, ERC8c, ERC8d, ERC8f, ERC9a, ERC9b; PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15, PROC19

Exposure scenario considered	
Usage descriptors covered	*ERC4: Industrial use of processing aids which do not become part of articles. Since no environmental hazard was identified, relative exposure assessment and risk characterization were therefore not carried out.*
Operating conditions	

Exposure scenario considered	
Usage descriptors covered	*ERC5: Industrial use resulting in inclusion in or application to a matrix As no environmental hazard was identified, relative exposure assessment and risk characterization were therefore not performed.*
Operating conditions	

Exposure scenario considered	
Usage descriptors covered	*ERC6b: Industrial use of reactive processing aids. Since no environmental hazard was identified, relative exposure assessment and risk characterization were therefore not carried out.*
Operating conditions	

Exposure scenario considered	
Usage descriptors covered	*ERC7: Industrial use of substances in closed systems. Since no environmental hazard was identified, relative exposure assessment and risk characterization were therefore not carried out.*
Operating conditions	

Exposure scenario considered	
Usage descriptors covered	*ERC8a: Wide dispersive indoor use of processing aids in open systems. Since no environmental hazard was identified, relative exposure assessment and risk characterization were therefore not carried out.*
Operating conditions	

Exposure scenario considered

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Usage descriptors covered	*ERC8c: Wide internal dispersive use resulting in inclusion in a matrix or application to a matrix. Since no environmental hazard was identified, relative exposure assessment and risk characterization were therefore not carried out.*
Operating conditions	

Exposure scenario considered	
Usage descriptors covered	*ERC8d: Wide dispersive external use of processing aids in open systems. Since no environmental hazard was identified, relative exposure assessment and risk characterization were therefore not carried out.*
Operating conditions	

Exposure scenario considered	
Usage descriptors covered	*ERC8f: Wide dispersive external use resulting in inclusion in a matrix or application to a matrix. Since no environmental hazard was identified, relative exposure assessment and risk characterization were therefore not carried out.*
Operating conditions	

Exposure scenario considered	
Usage descriptors covered	*ERC9a: Wide dispersive internal use of substances in closed systems As no environmental hazard was identified, relative exposure assessment and risk characterization were therefore not performed.*
Operating conditions	

Exposure scenario considered	
Usage descriptors covered	*ERC9b: Wide dispersive external use of substances in closed systems. Since no environmental hazard was identified, relative exposure assessment and risk characterization were therefore not carried out.*
Operating conditions	

Exposure scenario considered	
Usage descriptors covered	PROC1: Use in closed process, no probability of exposure
Operating conditions	
Concentration of the substance	tetrasodium ethylenediaminetetraacetate content: >= 0 % - <= 20 %
Physical state	Solid, slightly powdery
Vapor pressure of the substance	0 Pa
Process temperature	20° C
Duration and frequency of application	480 min 5 days per week
Indoor/Outdoor	Internal use
Risk management measures	

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The activity must be carried out only by adequately trained personnel, to prevent/minimize exposure	
Wear suitable clothing.	
Use of adequate visual protection.	
Estimation of exposure and reference to its source.	
Evaluation method	EASY TRA v4.1, ECETOC TRA v3.0, worker, modified version, The concentration of the substance was considered with a linear approach.
	Operator-inhalation, long-term -local
Exposure estimation	0.002 mg/m^3
Risk Characterization Report (RCR)	0.001333
Evaluation method	Qualitative evaluation
	Workers - dermal
	Dermal exposure is considered not relevant
Guide for downstream users	
For comparison, visit http://www.ecetoc.org/tra Please note that a revised version has been used (see exposure estimates).	

Exposure scenario considered	
Usage descriptors covered	PROC2: Use in continuous, closed processes, with occasional controlled exposure Area of use: professional
Operating conditions	
Concentration of the substance	tetrasodium ethylenediaminetetraacetate content: >= 0 % - <= 20 %
Physical state	Solid, slightly powdery
Vapor pressure of the substance	0 Pa
Process temperature	20° C
Duration and frequency of application	480 min 5 days per week
Indoor/Outdoor	Internal use
Risk management measures	
The activity must be carried out only by adequately trained personnel, to prevent/minimize exposure	
Wear suitable clothing.	
Use of adequate visual protection.	
Estimation of exposure and reference to its source.	
Evaluation method	EASY TRA v4.1, ECETOC TRA v3.0, worker, modified version, The concentration of the substance was considered with a linear approach.
	Operator-inhalation, long-term -local
Exposure estimation	0.002 mg/m^3
Risk Characterization Report (RCR)	0.001333
Evaluation method	Qualitative evaluation
	Workers - dermal
	Dermal exposure is considered not relevant
Guide for downstream users	

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Exposure scenario considered	
Usage descriptors covered	PROC3: Use in batch process (synthesis or formulation) Area of use: professional
Operating conditions	
Concentration of the substance	tetrasodium ethylenediaminetetraacetate content: >= 0 % - <= 20 %
Physical state	Solid, slightly powdery
Vapor pressure of the substance	0 Pa
Process temperature	20° C
Duration and frequency of application	480 min 5 days per week
Indoor/Outdoor	Internal use
Risk management measures	
The activity must be carried out only by adequately trained personnel, to prevent/minimize exposure	
Wear suitable clothing.	
Use of adequate visual protection.	
Estimation of exposure and reference to its source.	
Evaluation method	EASY TRA v4.1, ECETOC TRA v3.0, worker, modified version, The concentration of the substance was considered with a linear approach.
	Operator-inhalation, long-term -local
Exposure estimation	0.02 mg/m^3
Risk Characterization Report (RCR)	0,013333
Evaluation method	Qualitative evaluation
	Workers - dermal
	Dermal exposure is considered not relevant
Guide for downstream users	
For comparison, visit http://www.ecetoc.org/tra Please note that a revised version has been used (see exposure estimates).	

Exposure scenario considered	
Usage descriptors covered	PROC4: Use in batch and other processes (synthesis) where the possibility of exposure may exist Area of use: professional
Operating conditions	
Concentration of the substance	tetrasodium ethylenediaminetetraacetate content: >= 0 % - <= 20 %
Physical state	Solid, slightly powdery
Vapor pressure of the substance	0 Pa
Process temperature	20° C
Duration and frequency of application	480 min 5 days per week
Indoor/Outdoor	Internal use
Risk management measures	

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The activity must be carried out only by adequately trained personnel, to prevent/minimize exposure	
Wear suitable clothing.	
Use of adequate visual protection.	
Estimation of exposure and reference to its source.	
Evaluation method	EASY TRA v4.1, ECETOC TRA v3.0, worker, modified version, The concentration of the substance was considered with a linear approach.
	Operator-inhalation, long-term -local
Exposure estimation	0.2 mg/m^3
Risk Characterization Report (RCR)	0.133333
Evaluation method	Qualitative evaluation
	Workers - dermal
	Dermal exposure is considered not relevant
Guide for downstream users	
For comparison, visit http://www.ecetoc.org/tra Please note that a revised version has been used (see exposure estimates).	

Exposure scenario considered	
Usage descriptors covered	PROC8a: Transfer of a substance or preparation (filling/emptying) from/to containers/large containers in non-dedicated facilities. Area of use: professional
Operating conditions	
Concentration of the substance	tetrasodium ethylenediaminetetraacetate content: >= 0 % - <= 20 %
Physical state	Solid, slightly powdery
Vapor pressure of the substance	0 Pa
Process temperature	20° C
Duration and frequency of application	480 min 5 days per week
Indoor/Outdoor	Internal use
Risk management measures	
The activity must be carried out only by adequately trained personnel, to prevent/minimize exposure	
Wear suitable clothing.	
Use of adequate visual protection.	
Estimation of exposure and reference to its source.	
Evaluation method	EASY TRA v4.1, ECETOC TRA v3.0, worker, modified version, The concentration of the substance was considered with a linear approach.
	Operator-inhalation, long-term -local
Exposure estimation	0.1 mg/m^3
Risk Characterization Report (RCR)	0.066667
Evaluation method	Qualitative evaluation
	Workers - dermal
	Dermal exposure is considered not relevant

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Usage descriptors covered	PROC8b: Transfer of a substance or preparation (filling/ emptying) from/to vessels/large containers in dedicated facilities. Area of use: professional
Operating conditions	
Concentration of the substance	tetrasodium ethylenediaminetetraacetate content: >= 0 % - <= 20 %
Physical state	Solid, slightly powdery
Vapor pressure of the substance	0 Pa
Process temperature	20° C
Duration and frequency of application	480 min 5 days per week
Indoor/Outdoor	Internal use
Risk management measures	
The activity must be carried out only by adequately trained personnel, to prevent/minimize exposure	
Wear suitable clothing.	
Use of adequate visual protection.	
Estimation of exposure and reference to its source.	
Evaluation method	EASY TRA v4.1, ECETOC TRA v3.0, worker, modified version, The concentration of the substance was considered with a linear approach.
	Operator-inhalation, long-term -local
Exposure estimation	0.1 mg/m^3
Risk Characterization Report (RCR)	0.066667
Evaluation method	Qualitative evaluation
	Workers - dermal
	Dermal exposure is considered not relevant
Guide for downstream users	
For comparison, visit http://www.ecetoc.org/tra Please note that a revised version has been used (see exposure estimates).	

Usage descriptors covered	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing) Area of use: professional
Operating conditions	
Concentration of the substance	tetrasodium ethylenediaminetetraacetate content: >= 0 % - <= 20 %
Physical state	Solid, slightly powdery
Vapor pressure of the substance	0 Pa
Process temperature	20° C
Duration and frequency of application	480 min 5 days per week
Indoor/Outdoor	Internal use
Risk management measures	

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The activity must be carried out only by adequately trained personnel, to prevent/minimize exposure	
Wear suitable clothing.	
Use of adequate visual protection.	
Estimation of exposure and reference to its source.	
Evaluation method	EASY TRA v4.1, ECETOC TRA v3.0, worker, modified version, The concentration of the substance was considered with a linear approach.
	Operator-inhalation, long-term -local
Exposure estimation	0.1 mg/m^3
Risk Characterization Report (RCR)	0.066667
Evaluation method	Qualitative evaluation
	Workers - dermal
	Dermal exposure is considered not relevant
Guide for downstream users	
For comparison, visit http://www.ecetoc.org/tra Please note that a revised version has been used (see exposure estimates).	

Usage descriptors covered	PROC10: Application with rollers or brushes Area of use: professional
Operating conditions	
Concentration of the substance	tetrasodium ethylenediaminetetraacetate content: >= 0 % - <= 20 %
Physical state	Solid, slightly powdery
Vapor pressure of the substance	0 Pa
Process temperature	20° C
Duration and frequency of application	480 min 5 days per week
Indoor/Outdoor	Internal use
Risk management measures	
The activity must be carried out only by adequately trained personnel, to prevent/minimize exposure	
Wear suitable clothing.	
Use of adequate visual protection.	
Estimation of exposure and reference to its source.	
Evaluation method	EASY TRA v4.1, ECETOC TRA v3.0, worker, modified version, The concentration of the substance was considered with a linear approach.
	Operator-inhalation, long-term -local
Exposure estimation	0.1 mg/m^3
Risk Characterization Report (RCR)	0.066667
Evaluation method	Qualitative evaluation
	Workers - dermal
	Dermal exposure is considered not relevant
Guide for downstream users	
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Usage descriptors covered	PROC13: Treatment of articles by dipping or casting Area of use: professional
Operating conditions	
Concentration of the substance	tetrasodium ethylenediaminetetraacetate content: >= 0 % - <= 20 %
Physical state	Solid, slightly powdery
Vapor pressure of the substance	0 Pa
Process temperature	20° C
Duration and frequency of application	480 min 5 days per week
Indoor/Outdoor	Internal use
Risk management measures	
The activity must be carried out only by adequately trained personnel, to prevent/minimize exposure	
Wear suitable clothing.	
Use of adequate visual protection.	
Estimation of exposure and reference to its source.	
Evaluation method	EASY TRA v4.1, ECETOC TRA v3.0, worker, modified version, The concentration of the substance was considered with a linear approach.
	Operator-inhalation, long-term -local
Exposure estimation	0.1 mg/m^3
Risk Characterization Report (RCR)	0.066667
Evaluation method	Qualitative evaluation
	Workers - dermal
	Dermal exposure is considered not relevant
Guide for downstream users	
For comparison, visit http://www.ecetoc.org/tra Please note that a revised version has been used (see exposure estimates).	

Usage descriptors covered	PROC14: Production of preparations or articles by compression into tablets, compression, extrusion, pelletisation. Area of use: professional
Operating conditions	
Concentration of the substance	tetrasodium ethylenediaminetetraacetate content: >= 0 % - <= 20 %
Physical state	Solid, slightly powdery
Vapor pressure of the substance	0 Pa
Process temperature	20° C
Duration and frequency of application	480 min 5 days per week
Indoor/Outdoor	Internal use
Risk management measures	
The activity must be carried out only by adequately trained personnel, to prevent/minimize exposure	
Wear suitable clothing.	
Use of adequate visual protection.	
Estimation of exposure and reference to its source.	

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Evaluation method	EASY TRA v4.1, ECETOC TRA v3.0, worker, modified version, The concentration of the substance was considered with a linear approach.
	Operator-inhalation, long-term -local
Exposure estimation	0.2 mg/m^3
Risk Characterization Report (RCR)	0.133333
Evaluation method	Qualitative evaluation
	Workers - dermal
	Dermal exposure is considered not relevant
Guide for downstream users	
For comparison, visit http://www.ecetoc.org/tra Please note that a revised version has been used (see exposure estimates).	

Usage descriptors covered	PROC15: Use as laboratory reagent Area of use: professional
Operating conditions	
Concentration of the substance	tetrasodium ethylenediaminetetraacetate content: >= 0 % - <= 20 %
Physical state	Solid, slightly powdery
Vapor pressure of the substance	0 Pa
Process temperature	20° C
Duration and frequency of application	480 min 5 days per week
Indoor/Outdoor	Internal use
Risk management measures	
The activity must be carried out only by adequately trained personnel, to prevent/minimize exposure	
Wear suitable clothing.	
Use of adequate visual protection.	
Estimation of exposure and reference to its source.	
Evaluation method	EASY TRA v4.1, ECETOC TRA v3.0, worker, modified version, The concentration of the substance was considered with a linear approach.
	Operator-inhalation, long-term -local
Exposure estimation	0.02 mg/m^3
Risk Characterization Report (RCR)	0,01333
Evaluation method	Qualitative evaluation
	Workers - dermal
	Dermal exposure is considered not relevant
Guide for downstream users	
For comparison, visit http://www.ecetoc.org/tra Please note that a revised version has been used (see exposure estimates).	

Usage descriptors covered	PROC19: Manual mixing with direct contact with the sole use of personal protective equipment Area of use: professional
Operating conditions	

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Concentration of the substance	tetrasodium ethylenediaminetetraacetate content: >= 0 % - <= 20 %
Physical state	Solid, slightly powdery
Vapor pressure of the substance	0 Pa
Process temperature	20° C
Duration and frequency of application	480 min 5 days per week
Indoor/Outdoor	Internal use
Risk management measures	
The activity must be carried out only by adequately trained personnel, to prevent/minimize exposure	
Wear suitable clothing.	
Use of adequate visual protection.	
Estimation of exposure and reference to its source.	
Evaluation method	EASY TRA v4.1, ECETOC TRA v3.0, worker, modified version, The concentration of the substance was considered with a linear approach.
	Operator-inhalation, long-term -local
Exposure estimation	0.1 mg/m^3
Risk Characterization Report (RCR)	0.066667
Evaluation method	Qualitative evaluation
	Workers - dermal
	Dermal exposure is considered not relevant
Guide for downstream users	
For comparison, visit http://www.ecetoc.org/tra Please note that a revised version has been used (see exposure estimates).	