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In conformity to Regulation (EU) 2020/878

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

1.1. Product identifier

Product name: REMOVIL Liquid Product code: refer to sales department

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

Descaling alkaline detergent

Sectors of use:

Industrial Manufacturing[SU3], Manufacture of food products[SU4]

Product category:

Washing and Cleaning Products (including solvent based products)

Process categories:

Use in batch and other process (syn-thesis) where opportunity for exposure arises[PROC4], Transfer of substance or mixture (charging and discharging) at dedicated facilities[PROC8B], Treatment of articles by dipping and pouring [PROC13]

Not recommended uses

Do not use for purposes other than those listed

1.3. Details of the supplier of the safety data sheet

AEB SpA - Via Vittorio Arici 104 S.Polo - 25134 Brescia (BS) Italy

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Produced by AEB SpA Via Vittorio Arici 104 S. Polo



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25134 Brescia

1.4. Emergency telephone number

AEB SpA

Centralino/Switchboard: +39.030.2307.1 - (h 8.30-12.00 13.30-18.00 GMT +1; Lingua/Language: Italiano, English)

AEB USA

Switchboard: +1 2096258139 (GMT -8; Language: English)

AEB AFRICA (PTY) LTD

Switchboard: +27 215512700 (GMT +1; Language: English, Afrikaans)

AEB OCEANIA PTY LTD

Switchboard: +61 1300 704 971 (GMT +9; Language: English)

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008:

Pictograms:

GHS05

Hazard Class and Category Code(s):

Met. Corr. 1, Skin Corr. 1, Eye Dam. 1

Hazard statement Code(s):

H290 - May be corrosive to metals.

H314 - Causes severe skin burns and eye damage.

H318 - Causes serious eye damage.

The product can be corrosive to metals

Corrosive product: causes severe skin burns and eye damage.

If brought into contact with eyes, the product causes serious damages to eyes, such as an opaque cornea or injury to iris.

2.1.2 Additional information:

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

2.2. Label elements

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

Pictogram, Signal Word Code(s):

GHS05 - Danger

Hazard statement Code(s):



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H290 - May be corrosive to metals.

H314 - Causes severe skin burns and eye damage.

Supplemental Hazard statement Code(s):

not applicable

Precautionary statements:

Prevention

P260 - Do not breathe vapours/spray.

P280 - Wear protective gloves/clothing and eye/face protection.

Response

P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Contains:

Sodium hydroxide

Contains (Reg.EC 648/2004):

< 5% non-ionic surfactants, phosphonates

2.3. Other hazards

Based on the available data, no PBT or vPvB substances are present in accordance with Regulation (EC) 1907/2006, annex XIII

Based on available data, there are no substances that interfere with the Endocrine System in accordance with Regulation (EU) 2017/2100

The use of this chemical agent implies the obligation of the "risk assessment" by the employer according to the provisions of Legislative Decree April 9, 2008 no. 81 and subsequent amendments. If the results of the risk assessment demonstrate that, in relation to the type, quantity, methods and frequency of exposure, there is only a low risk for the safety and irrelevant for the health of the workers and that the measures referred to in paragraph 1 of Legislative Decree April 9, 2008 no. 81 are sufficient to reduce the risk, the provisions of articles 225, 226, 229, 230 of the same Legislative Decree do not apply

Do not ingest. Keep out of reach of children.

SECTION 3. Composition/information on ingredients

3.1 Substances

Irrilevant

3.2 Mixtures



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| Substance | Concentration[w/w] | Classification | Index | CAS | EINECS | REACh |
|---|------------------------|---|--------------|-----------|-----------|-------------------------------|
| Sodium hydroxide | >= 25 < 50% | Met. Corr. 1, H290; Skin Corr. 1A, H314; Eye Dam. 1, H318 Limits: Skin Corr. 1A, H314 %C >=5; Skin Corr. 1B, H314 2<= %C <5; Eye Irrit. 2, H319 0,5<= %C <2; Eye Dam. 1, H318 %C >=2; Skin Irrit. 2, H315 %C >=0,5; | 011-002-00-6 | 1310-73-2 | 215-185-5 | 01-2119457 892-27-XXX X |
| Hydrogen pentasodium C, C ', C' '-Nitrilotris (methylphosphonate) - ionic mixture | >= 3 < 5% | Eye Irrit. 2, H319 | | 2235-43-0 | 218-791-8 | Ionic Mixture |

SECTION 4. First aid measures

4.1. Description of first aid measures

Inhalation:

Ventilate the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated area. If you feel unwell seek medical advice.

Direct contact with skin (of the pure product).:

Take off immediately contaminated clothing.

In case of contact with skin, wash immediately with watrer.

Immediately consult a physician.

Direct contact with eyes (of the pure product).:

Wash immediately and thoroughly with running water, keeping eyelids open for at least 10 minutes, then protect your eyes with a dry sterile gauze. Seek medical advice immediately

Do not use eye drops or ointments of any kind before the examination or advice from an oculist.

Ingestion:

Rinse mouth immediately.

Absolutely do not induce vomiting or emesis. Seek medical advice immediately.

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

Ingestion can cause chemical burns in the mouth and throat.

Contact with the skin can cause burns.

In contact with eyes it causes very strong irritation, including redness and tearing.

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

In case of discomfort following contact with the product, go immediately to the emergency room and, if possible, show this document.

Symptomatic treatment.

UFI code on the label

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SECTION 5. Firefighting measures

5.1. Extinguishing media

Suggested extinguishing media:

Water spray, CO2, foam, dry chemical, depending on the materials involved in the fire.

Extinguishing media to avoid:

Water jets. Use water jets only to cool the surfaces of the containers exposed to fire.

5.2. Special hazards arising from the substance or mixture

No data available.

5.3. Advice for firefighters

Use protection for the breathing apparatus

Safety helmet and full protective clothing.

The water spray can be used to protect the people involved in the extinction.

You may also use self-contained breathing apparatus, especially when working in confined and poorly ventilated areas. Keep containers cool with water spray

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:

Leave the area surrounding the spill or release. Do not smoke Wear mask, gloves and protective clothing.

6.1.2 For emergency responders:

Eliminate all open flames and possible sources of ignition. Not smoking. Provide adequate ventilation. Evacuate the danger area and, if necessary, consult an expert.

6.2. Environmental precautions

Contain spills with earth or sand.

If the product has entered a watercourse, sewers or has contaminated soil or vegetation, notify the authorities. Dispose of the waste material in compliance with the regulations

6.3. Methods and material for containment and cleaning up

6.3.1 Containment:

Rapidly recover the product, wear a mask and protective clothing (for specifications refer to section 8.2. SDS) Recover the product for reuse, if possible, or for removal. Possibly absorb it with inert materia or sucked it. Prevent it from entering the sewer system.

6.3.2 Cleaning up:

After wiping up, wash with water the area and materials involved

6.3.3 Other information:



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None in particular.

6.4. Reference to other sections

Refer to paragraphs 8 and 13 for more information

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Avoid contact and inhalation of vapors

Wear protective gloves/clothing and eye/face protection.

Handle the product after consulting all other sections of this safety data sheet.

At work do not eat or drink.

See also paragraph 8 below.

7.2. Conditions for safe storage, including any incompatibilities

Keep in original container closed tightly. Do not store in open or unlabelled containers.

Keep containers upright and safe by avoiding the possibility of falls or collisions.

Store in a cool and dry place, away from heat sources and direct exposure to sunlight.

7.3. Specific end use(s)

Industrial Manufacturing:

Handle with care.

Store in a well-ventilated place, away from heat sources (7-30°C), in the original tightly closed packaging

Manufacture of food products:

Handle with care.

Store in a well-ventilated place, away from heat sources (7-30°C), in the original tightly closed packaging

See the annex exposure scenario.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Related to contained substances:

Sodium hydroxide:

Limit value - Eight hours

(ppm)/(mg/m3)

Austria: x/2 inhalable aerosol

Belgium: x/2 (1) Denmark: x/2 France: x/2 Hungary: x/2

Japan (JSOH): x/2(1)

Latvia: x/0,5 Poland: x/0,5 Romania: x/1 Spain: x/2 Sweden: x/1 (1)



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Switzerland: x/2 inhalable aerosol (MAK)

USA - OSHA: x/2

Limit Value - Short Term

(ppm)/(mg/m3) Austalia: x/2(1)

Austria: x/4 inhalable aerosol Canada - Ontario: x/2(1) Canada – Québec: x/2(1)

Denmark: x/2 Finland: x/2(1) Hungary: x/2 Ireland: x/2(1) New Zealand: x/2(1)

People's Republic of China: x/2(1)

Poland: x/1 Romaniax/3(1) Singapore: x/2 South Korea: x/2(1) Sweden: x/2(1)(2)

Switzerland: x/2 inhalable aerosol (MAK)

USA – NIOSH: x/2(1) United Kingdom: x/2

Remarks:

Australia: (1) Celling limit value

Canada – Ontario: (1) Celling limit value Canada – Québec: (1) Celling limit value

Finland: (1) Celling limit value

Ireland: (1) 15 minutes reference period

Japan: (1) Occupational exposure limit ceiling: Reference value to the maximal exposure concentration of the

substance during a working day New Zealand: (1) Celling limit value

People's Republic of China: (1) Celling limit value

South Korea: (1) Celling limit value Romania: (1) 15 minutes average value

Sweden: (1) Inhalable dust (2) Celling limit value USA – NIOSH: (1) Celling limit value (15 min)

Argentine: CMP-C: 2 mg mg/m3

Czech Republic: PEL 1 mg/m3/ NPK-P 2 mg/m3

Italy: OEL: ACGIH -STEL: C 2.0 mg/m3; Tipo OEL: ACGIH - STEL: C2 mg/m3 - Note: URT, eye, and skin irr Estonia: short-term esposure limit (maximum chemical substance average allowable concentration in inhaled air - 15 minutes) 2 mg/m3(Ceiling limit" means a maximum permissible continuous concentration of 15 minutes in the air for rapidly acting substances)

Norvay: ceiling value (a moment value that indicates the maximum concentration of a chemical in the breathing zone that should not be exceeded) 2 mg/m3

Lithuania: NRD 2 mg/m3 Slovakia: NPEL 2 mg/m3

South Africa: Short Term OEL-CL 2 mg/m3

- Substance: Sodium hydroxide

DNEL

Systemic effects Short term Workers inhalation = 1 (mg/m3) Systemic effects Short term Consumers inhalation = 1 (mg/m3) Local effects Short term Workers inhalation = 1 (mg/m3) Local effects Short term Consumers inhalation = 1 (mg/m3)

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8.2. Exposure controls

Appropriate engineering controls:

Industrial Manufacturing:

No specific monitoring foreseen (act according to good practice and specific rules for the type of risk associated)

Manufacture of food products:

No specific monitoring foreseen (act according to good practice and specific rules for the type of risk associated)

8.2.2 Individual protection measures:

(a) Eye / face protection

Wear protective goggles (EN 166).

- (b) Skin protection
 - (i) Hand protection

When handling the pure product use chemical resistant protective gloves (EN 374-1/EN374-2/EN374-3)

(ii) Other

During working operation wear protective clothing (generic workwear / antacid, safety shoes or other protective equipment) according to the instructions of the employer

(c) Respiratory protection

Not needed for normal use.

In case of insufficient ventilation or emergency, use mask with gas filters and inorganic vapors - Grey , Class 3 , B (EN 405) unless otherwise provided by the employer and / or assessments of environmental investigations hygienistic. None required if airborne concentrations are maintained below the exposure limit listed in Exposure Limit Information. Use certified respiratory protection equipment meeting EU requirements (89/656/EEC, 245/2016 UE), or equivalent, when respiratory risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.

(d) Thermal hazards No hazard to report

Environmental exposure controls:

Use according to good working practices and avoid to disperse the product into the environment.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Physical and chemical properties | Value | Determination method |
|----------------------------------|---|----------------------|
| Physical state | clear liquid | |
| Colour | light brown | |
| | not determined as considered not relevant for the characterization of the product | |
| | not determined as considered not relevant for the characterization of the product | |



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| Physical and chemical properties | Value | Determination method |
|--|---|----------------------|
| Melting point/freezing point | not determined as considered not relevant for the characterization of the product | |
| Boiling point or initial boiling point and boiling range | not determined as considered not relevant for the characterization of the product | |
| Flammability | not determined as considered not relevant for the characterization of the product | |
| Lower and upper explosion limit | not determined as considered not relevant for the characterization of the product | |
| Flash point | not determined as considered not relevant for the characterization of the product | |
| Auto-ignition temperature | not determined as considered not relevant for the characterization of the product | |
| Decomposition temperature | not determined as considered not relevant for the characterization of the product | |
| рН | > 12,0 (20 °C; 3% sol.); > 12,0 (20 °C; 100 %) | |
| Kinematic viscosity | not determined as considered not relevant for the characterization of the product | |
| Solubility | in water | |
| Water solubility | miscible in all proportions | |
| Partition coefficient n-octanol/water (log value) | not determined as considered not relevant for the characterization of the product | |
| Vapour pressure | not determined as considered not relevant for the characterization of the product | |
| Density and/or relative density | 1,50 ± 0,05 (20°C) | |
| Relative vapour density | not determined as considered not relevant for the characterization of the product | |
| Particle characteristics | not determined as considered not relevant for the characterization of the product | |

9.2. Other information

9.2.1 Information with regard to physical hazard classes

Irrilevant

9.2.2 Other safety characteristics

Irrilevant

SECTION 10. Stability and reactivity

10.1. Reactivity

Strong base

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10.2. Chemical stability

In contact with air produces carbonates

10.3. Possibility of hazardous reactions

Reacts with aluminium, Tin, zinc and their alloys, bronze, lead, etc. by emitting hydrogen. Exothermic reaction with strong acids.

10.4. Conditions to avoid

Avoid prolonged contact with the air, storage in T less than 7° C and as specified in paragraph 10.3

10.5. Incompatible materials

Can generate flammable gases halogenated organic substances, metals.

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11. Toxicological information

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

(a) acute toxicity: based on available data, the classification criteria are not met

ATE(mix) oral = 200.040,0 Not classified

ATE(mix) dermal = Not classified (no relevant component)

ATE(mix) inhal = Not classified (no relevant component)

- (b) skincorrosion/irritation: based on available data, the classification criteria are met
- (c) serious eye damage/irritation: b If brought into contact with the eyes, the product causes serious eye injuries, such as opacification of the cornea or injury to the iris.
- (d) respiratoryorskinsensitisation: based on available data, the classification criteria are not met
- (e) germ cell mutagenicity: based on the available data, the classification criteria are not met.
- (f) carcinogenicity: based on available data, the classification criteria are not met
- (g) reproductivetoxicity: based on available data, the classification criteria are not met
- (h) specific target organ toxicity (STOT) single exposure: based on available data, the classification criteria are not met
- (i) specific target organ toxicity (STOT) repeated exposure: based on available data, the classification criteria are not met
- (j) aspiration hazard: based on available data, the classification criteria are not met

concerning substances

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(a) acute toxicity:

Sodium hydroxide: Ingestion - LD50 rat (mg / kg / 24h bw): na; Skin contact - LC50 rabbit (mg / kg / 24h bw): 1350 Inhalation - LD50 rat (mg / I / 4h): nd

Hydrogen pentasodium C, C', C' '-Nitrilotris (methylphosphonate) - ionic mixture: Ingestion-rat LD50 (mg/kg/bw 24h): 17800- Skin contact-LC50 rat/coniglio (mg/kg/bw 24h): > 15800; Inhalation-rat LD50 (mg/l/4h): n.d

(b) skincorrosion/irritation:

Sodium hydroxide: Corrosive

Hydrogen pentasodium C, C', C' '-Nitrilotris (methylphosphonate) - ionic mixture: Non-corrosive

Sodium hydroxide: Irritating

Hydrogen pentasodium C, C', C''-Nitrilotris (methylphosphonate) - ionic mixture: Non-irritating

(c) serious eye damage/irritation:

Sodium hydroxide: Corrosive

Hydrogen pentasodium C, C', C' '-Nitrilotris (methylphosphonate) - ionic mixture: Non-corrosive

Sodium hydroxide: Irritating

Hydrogen pentasodium C, C', C''-Nitrilotris (methylphosphonate) - ionic mixture: Irritating

(d) respiratoryorskinsensitisation:

Sodium hydroxide: Not sensitizing

Hydrogen pentasodium C, C', C''-Nitrilotris (methylphosphonate) - ionic mixture: Non-sensitizing

(e) germ cell mutagenicity:

Sodium hydroxide: NaOH did not induce mutagenicity in in vitro and in vivo studies (EU RAR, 2007; section 4.1.2.7, page 73).

Hydrogen pentasodium C, C', C''-Nitrilotris (methylphosphonate) - ionic mixture: Not available

(f) carcinogenicity:

Sodium hydroxide: Systemic carcinogenicity is not expected to occur as NaOH is not expected to be systemically available in the body under normal conditions of handling and use. Finally, adequate studies are not available to assess the risk on local carcinogenic effects.

Hydrogen pentasodium C, C', C''-Nitrilotris (methylphosphonate) - ionic mixture: Not available

(g) Reproductivetoxicity:

Sodium hydroxide: NaOH is not expected to be systemically available in the body under normal conditions of handling and use and for this reason it can be said that the substance will neither reach the fetus nor reach the male and female reproductive organs (EU RAR Sodium Hydroxide (2007), section 4.1.2.8, page 73). It can be concluded that a specific study is not required to determine reproductive toxicity.

Hydrogen pentasodium C, C', C''-Nitrilotris (methylphosphonate) - ionic mixture: Not available

(h) specific target organ toxicity (STOT) single exposure:

Sodium hydroxide: The substance can be absorbed into the body by inhalation of its aerosol, by ingestion and by contact with the skin causing corrosion

Hydrogen pentasodium C, C', C''-Nitrilotris (methylphosphonate) - ionic mixture: Not available

(i) specific target organ toxicity (STOT) repeated exposure

Sodium hydroxide: The introductory sections of Annexes VII-X indicate a specific adaptation to standard information requirements as in vivo testing should be avoided with corrosive substances at concentration / dose levels causing corrosivity. However, NaOH is not expected to be systemically available in the body under normal conditions of handling and use and therefore no systemic effects of NaOH are expected after repeated exposure (EU RAR sodium hydroxide (2007); section 4.1.3.1.4, page 76).

Hydrogen pentasodium C, C', C' '-Nitrilotris (methylphosphonate) - ionic mixture: Not available

(j) aspiration hazard:

Sodium hydroxide: Not available

Hydrogen pentasodium C, C', C''-Nitrilotris (methylphosphonate) - ionic mixture: Not available



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11.2. Information on other hazards

No data available.

11.2.1. Endocrine disrupting properties

Based on available data, there are no substances that interfere with the Endocrine System in accordance with Regulation (EU) 2017/2100

SECTION 12. Ecological information

12.1. Toxicity

Related to contained substances:

Sodium hydroxide:

Acute toxicity - fish LC50 (mg / I / 96h): 45

Acute toxicity - crustaceans EC50 (mg / I / 48h): 40

Acute toxicity to algae ErC50 (mg / I / 72-96h): n.d

Chronic toxicity - fish NOEC (mg / I): n.d

Chronic toxicity - crustaceans NOEC (mg / I): n.d

Chronic toxicity to algae NOEC (mg / l): n.d

Available data indicate that NaOH concentrations of approximately 20 to 40 mg / L may be acutely toxic to fish and invertebrates (single species test). There is a lack of data on the increase in pH due to the addition of these quantities of NaOH in the test waters used. In waters with relatively low buffering capacity, NaOH concentrations of 20-40 mg / L may lead to an increase in pH with one or more pH units (EU RAR, 2007; section 3.2.1.1.3, page 30).

The OECD SIDS (2002) assigned a low reliability code ("invalid" or "not assignable") to all available tests, since in general the tests were not conducted according to current guidelines (EU RAR, 2007; section 3.2. 1.1.4, page 30). Furthermore, in many test reports there were no data on pH, buffer capacity and / or composition of the test medium, although this is essential information for NaOH toxicity testing. This is the most important reason why most of the tests were considered "invalid". Despite this lack of valid data, it is not necessary to perform further aquatic toxicity tests with NaOH, as all available tests have resulted in a rather small range of toxicity values (acute toxicity test: 20 to 450 mg / L; test chronic toxicity:> or = 25 mg / L) and there are sufficient data on the pH ranges tolerated by the main taxonomic groups.

Furthermore, a generic PNEC cannot be derived from the single species toxicity data for NaOH, as the pH of natural waters and the buffering capacity of natural waters show considerable differences and aquatic organisms / ecosystems are adapted to these specific natural conditions, with resulting in different pH optima and tolerated pH ranges (EU RAR, 2007; section 3.2.1.1.4, page 30). According to the OECD SIDS (2002), a lot of information is available on the relationship between pH and ecosystem structure, and natural changes in the pH of aquatic ecosystems have also been quantified and widely reported in ecological publications and manuals.

C(E)L50 (mg/l) = 45 Acute toxicity M-factor = 1

Chronic toxicity M-factor = 1

Hydrogen pentasodium C, C', C'-Nitrilotris (methylphosphonate) - ionic mixture:

Not available

Acute toxicity M-factor = 1

Chronic toxicity M-factor = 1

Use according to good working practices and avoid to disperse the product into the environment.



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12.2. Persistence and degradability

Related to contained substances:

Sodium hydroxide:

according to REACH regulation, it is not necessary to conduct the study if the substance is inorganic (Annex VII, adaptation column 2).

Hydrogen pentasodium C, C ', C' '-Nitrilotris (methylphosphonate) - ionic mixture: Not available

12.3. Bioaccumulative potential

Related to contained substances:

Sodium hydroxide:

According to REACH, it is not necessary to conduct the study if the substance has a low bioaccumulation potential (Annex IX, adaptation column 2). Considering its high water solubility, NaOH should not bioconcentrate in organisms. Log Pow is not applicable for an inorganic compound that dissociates (EU RAR 2007, section 3.1.1 page 19 and section 3.1.3.4, page 26). Furthermore, sodium is an element present in nature prevalent in the environment and to which organisms are regularly exposed, for which they have a certain ability to regulate the concentration of the organism.

Hydrogen pentasodium C, C ', C' '-Nitrilotris (methylphosphonate) - ionic mixture: Not available

12.4. Mobility in soil

Related to contained substances:

Sodium hydroxide:

According to the REACH regulation, it is not necessary to conduct an adsorption / desorption study if, based on the physicochemical properties, the substance can be expected to have a low adsorption potential (Annex VIII, adaptation column 2).

Considering its high water solubility, NaOH should not bioconcentrate in organisms. The high water solubility and low vapor pressure indicate that NaOH will be found primarily in the aquatic environment.

The 73% aqueous NaOH solution at room temperature is a highly viscous gelatinous material and without additional dilution (precipitation), it is not expected to infiltrate the soil to any significant extent. The 50% aqueous NaOH solution is liquid and is expected to infiltrate the soil to a measurable extent. As a dilution of NaOH

increases, increases its speed of movement through the ground. During movement through the ground, some ion exchange will occur.

Also, part of the hydroxide can remain in the aqueous phase and will move down through the soil in the direction of groundwater flow (EU RAR 2007, section 3.1.3, page 24).

Hydrogen pentasodium C, C ', C' '-Nitrilotris (methylphosphonate) - ionic mixture: Not available

12.5. Results of PBT and vPvB assessment

Based on the available data, no PBT or vPvB substances are present in accordance with Regulation (EC) 1907/2006, annex XIII

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12.6. Endocrine disrupting properties

Based on available data, there are no substances that interfere with the Endocrine System in accordance with Regulation (EU) 2017/2100

12.7. Other adverse effects

No adverse effects

Regulation (EC) No 2006/907 - 2004/648

The (I) surfactant (s) content (s) in this preparation complies (comply) with (i) the biodegradability criteria as laid down in Regulation CE/648/2004 on detergents. All data are held at the disposal of the competent authorities of Member States and will be provided, at their direct request or at the request of a detergent manufacturer, to those authorities.

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Do not reuse empty containers. Dispose of them in accordance with the regulations in force. Any remaining product should be disposed of according to applicable regulations by addressing to authorized companies.

Recover if possible. Operate according to local or national regulations

SECTION 14. Transport information

14.1. UN number or ID number

ADR/RID/IMDG/ICAO-IATA: 3266

8

If subject to the following characteristics is ADR exempt:

Combination packagings: per inner packaging 1 L per package 30 kg

Inner packaging placed in skrink-wrapped or stretch-wrapped trays: per inner packaging 1 L per package 20 kg

14.2. UN proper shipping name

ADR/RID/IMDG: LIQUIDO INORGANICO CORROSIVO, BASICO, N.A.S. (Idrossido di sodio in miscela) ADR/RID/IMDG: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium hydroxide in mixture) ICAO-IATA: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium hydroxide in mixture)

14.3. Transport hazard class(es)

ADR/RID/IMDG/ICAO-IATA: Class: 8 ADR/RID/IMDG/ICAO-IATA: Label: 8 ADR: Tunnel restriction code: E

ADR/RID/IMDG/ICAO-IATA: Limited quantities : 1 L

IMDG - EmS: F-A, S-B

14.4. Packing group

ADR/RID/IMDG/ICAO-IATA: II



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In conformity to Regulation (EU) 2020/878

14.5. Environmental hazards

ADR/RID/ICAO-IATA: Product is not environmentally hazardous

IMDG: Marine polluting agent : No

14.6. Special precautions for user

The transport must be carried out by authorized vehicles for the transport of dangerous goods in accordance with the requirements of the applicable Edition of the agreement A.D.R. and national provisions. The transport must be carried out in the original packaging and in packages that are made from materials resistant to content and not likely to generate with this dangerous reactions. The process of loading and unloading of dangerous goods have received adequate training on the risks presented by prepared and on possible procedures to be taken in the event of emergency situations

14.7. Maritime transport in bulk according to IMO instruments

Transport in bulk is not foreseen

SECTION 15. Regulatory information

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

Restrictions relating to the product or the substances contained (Annex XVII EC Reg. 1907/2006): not applicable Substances in Candidate list (art. 59 EC Reg. 1907/2006): the product does not contain SVHC in percentage = a 0.1 %. Regulation (EU) No 1357/2014 - waste:HP8 - Corrosive

Seveso III class (Dir EU 2012/18): n.a. Regulation (EC) 648/04: see point 2.2

Regulation (EU) 528/2012: n.a.

15.2. Chemical safety assessment

Chemical safety assessment was carried out: Sodium hydroxide

Mixture exposure scenarios attached

SECTION 16. Other information

16.1. Other information

Points modified compared to previous release: 3.2 Mixtures, 4.2. Most important symptoms and effects, both acute and delayed, 4.3. Indication of any immediate medical attention and special treatment needed, 7.3. Specific end use(s), 8.2. Exposure controls,11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008, 11.2. Information on other hazards, 12.1. Toxicity, 12.5. Results of PBT and vPvB assessment, 12.6. Endocrine disrupting properties, 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture



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Description of hazard statements set out in paragraph 3

H290 = May be corrosive to metals.

H314 = Causes severe skin burns and eye damage.

H318 = Causes serious eye damage.

H319 = Causes serious eye irritation.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

H290 - May be corrosive to metals. Classification procedure: On basis of test data

H314 - Causes severe skin burns and eye damage. Classification procedure: Calculation method

H318 - Causes serious eye damage. Classification procedure: Calculation method

Main normative references:

Reg. (CE) n. 1907 del 18/12/06 REACH (Registration, Evaluation and Authorisation of CHemicals) et seq.

Reg. (CE) 1272/2008 CLP (Classification Labelling and Packaging) et seq.

Directive 2012/18/EU (on the control of major-accident hazards involving dangerous substances) et seq.

Training required: This document must be submitted to the employer to determine the possible need for appropriate training for workers to ensure protection of human health and the environment.

n.a.: not applicable n.d.: not available

ADR: Accord europèen relative au transport International des merchandises dangereuses par route (European

Agreement concerning the International Carriage of Dangerous Goods by Road)

ATE: Acute Toxicity Estimat

BFC: BioconCentration Factor

BOD: Biochemical Oxigen Demand

CAS: Chemical Abstract Service number

CAP: Centre AntiPoison

CE/EC number EINECS (European Inventory of existing Commercial Substances) e ELINCS (European List of notified

Chemical Substances)

CL50/LC50: Lethal Concentration 50

DL50/LD50: Lethal Dose 50 COD: Chemical Oxygen Demand DNEL: Derived No Effect Level

EC50: half maximal Effective Concentration

ERC: Enviroment Release Classes

EU/UE: European Union

IATA: International Air Transport Association ICAO: International Civil Aviation Organization

IMDG: International Maritime Dangerous Goods code

Kow: Octanol water partition coefficient NOEC: No Observed Effect Concentration OEL: Occupational Exposure Limit

PBT: Persistent Bioaccumulative and Toxic

PC: Product Categories

PNEC: Predicted No Effect Concentration

PROC: Process Categories

RID: Règlement concernent le transport International ferroviaire des merchandises dangereuses (Regulations concerning International rail transport of dangerous goods)

STOT: Target Organ Systemic Toxicity

STOT (RE): Repeated Exposure STOT (SE): Single Exposure STP: Sewage Treatment Plants

SU: Sector of Use

SVCH: Substance of Very High Concern

TLV: Threshold Limit Value

vPvB: Very Persistent Very Bioaccumulative



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References and Sources:

- ECHA Registered Substances: https://echa.europa.eu/web/guest/information-on-chemicals/registered-substances
- SDS raw material supplier
- GESTIS International Limit Value: http://limitvalue.ifa.dguv.de

This msds was made in good faith by technical Office on the basis of the information available at the date of the last revision. The person in charge must regularly inform the employees about the specific risks they encounter when using this substance/product. The information contained here relate only to the substance/the preparation indicated and may not apply if the product is used improperly or in combination with others. Nothing contained herein shall be construed as a guarantee, either express or implied. It is the responsibility of the user to ensure the opportunities and completeness of the information contained herein for their own particular use.

*** this tab annuls and replaces any previous edition. (IIXX)

Changes to the previous edition: updating data of raw materials

SUMI

Safe Use of Mixtures Information





AISE_SUMI_IS_4_2

Version 1.1, August 2018

Industrial uses; Automated task; Semi-automated task; Dedicated equipment

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.

General description of the process covered

The SUMI applies to industrial uses where products are used in closed process where opportunity for exposure arises. This Safe Use Information is based on the AISE_SWED_IS_4_2.

Operational Conditions

| Maximum duration | 480 minutes per day. | |
|---------------------------|--|--|
| Range of application / | Indoor Use. | |
| Process conditions | Process carried out at room temperature. | |
| | In case of dilution, tap water at a maximum temperature of 45°C is used. | |
| Air exchange rate | Provide a basic standard of general ventilation (1 to 3 air changes per | |
| | hour). No LEV required. | |

Risk Management Measures

| Measures related to | Wear suitable gloves. | |
|--|--|--|
| personal protective equipment (PPE), hygiene and health evaluation | See section 8 of the SDS of this product for specifications. | |
| | Training of workers in relation to proper use and maintenance of PPEs must be ensured. | |
| Environmental | Prevent that undiluted product reaches surface waters. | |
| measures | If appropriate AISE SPERC 8a.1.a.v2 may apply: wide dispersive use | |
| | resulting in release to municipal sewage treatment plant. | |

Additional good practice advice

| Don't eat or drink. Don't smoke. Don't use in proximity of open flame. | |
|--|---|
| Wash hands after use. Avoid contact with damaged skin. Do not mix with other products. | |
| Spillage instructions | Dilute with fresh water and mop up. |
| Hygiene practices | Follow the product instructions as specified on the label or in the product information sheet and use good occupational hygiene practices as specified in Section 7 of the product SDS. |

Additional information depending on product composition

The label and (when required) the Safety Data Sheet contain additional, product specific information crucial for working safely with mixtures. Please refer to the product label and SDS for information including, but not limited to: product hazard classification, potentially allergenic fragrances, notable ingredients and threshold limit values (when available).

Disclaimer

This is a document for communicating generic conditions of safe use of a product. It is the responsibility of the formulator to link this SUMI to the SDS of a specific product that he is selling.

If a SUMI (or associated SWED) code is mentioned in the SDS of a product, the formulator of that product declares that all substances in the mixture are present in such concentration, that the use of the product within the conditions of the SUMI is safe. When available, this safe use is ensured by evaluating the results of the chemical safety assessments as performed by the raw material suppliers. When no chemical safety assessment has been carried out by the supplier for an ingredient that contributes to the classification of the mixture, the formulator has performed a safety assessment himself.

Following Occupational Health legislation, the employer of workers that use products that are assessed as safe following SUMI conditions remains responsible for communicating relevant use information to employees. When developing workplace instructions for employees, SUMI Sheets should always be considered in combination with the SDS and the label of the product.

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SUMI

Safe Use of Mixtures Information





AISE_SUMI_IS_8b_1

Version 1.1, August 2018

Transfer and dilution of concentrated product by using dedicated dosing system

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.

General description of the process covered

This SUMI applies to industrial uses where products are transferred to or diluted in a dedicated dosing system. This Safe Use Information is based on the AISE_SWED_IS_8b_1_L and AISE_SWED_IS_8b_1_S

Operational Conditions

| Maximum duration | 60 minutes per day. |
|------------------------|--|
| Range of application / | Indoor Use. |
| Process conditions | Process carried out at room temperature. |
| | In case of dilution, tap water at a maximum temperature of 45°C is used. |
| Air exchange rate | Provide a basic standard of general ventilation (1 to 3 air changes per |
| | hour). No LEV required. |

Risk Management Measures

| Measures related to | Wear suitable gloves. |
|---|--|
| personal protective equipment (PPE), hygiene and health | See section 8 of the SDS of this product for specifications. |
| evaluation | Training of workers in valeties to preser use and maintenance of DDFs |
| | Training of workers in relation to proper use and maintenance of PPEs must be ensured. |
| Environmental | Prevent that undiluted product reaches surface waters. |
| measures | If appropriate AISE SPERC 8a.1.a.v2 may apply: wide dispersive use |
| | resulting in release to municipal sewage treatment plant. |

Additional good practice advice

| Don't eat or drink. Don't smoke. Don't use in proximity of open flame. | |
|--|---|
| Wash hands after use. Avoid contact with damaged skin. Do not mix with other products. | |
| Spillage instructions | Dilute with fresh water and mop up. |
| Hygiene practices | Follow the product instructions as specified on the label or in the product information sheet and use good occupational hygiene practices as specified in Section 7 of the product SDS. |

Additional information depending on product composition

The label and (when required) the Safety Data Sheet contain additional, product specific information crucial for working safely with mixtures. Please refer to the product label and SDS for information including, but not limited to: product hazard classification, potentially allergenic fragrances, notable ingredients and threshold limit values (when available).

Disclaimer

This is a document for communicating generic conditions of safe use of a product. It is the responsibility of the formulator to link this SUMI to the SDS of a specific product that he is selling.

If a SUMI (or associated SWED) code is mentioned in the SDS of a product, the formulator of that product declares that all substances in the mixture are present in such concentration, that the use of the product within the conditions of the SUMI is safe. When available, this safe use is ensured by evaluating the results of the chemical safety assessments as performed by the raw material suppliers. When no chemical safety assessment has been carried out by the supplier for an ingredient that contributes to the classification of the mixture, the formulator has performed a safety assessment himself.

Following Occupational Health legislation, the employer of workers that use products that are assessed as safe following SUMI conditions remains responsible for communicating relevant use information to employees. When developing workplace instructions for employees, SUMI Sheets should always be considered in combination with the SDS and the label of the product.

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SUMI

Safe Use of Mixtures Information





AISE_SUMI_IS_13_3_G

Version 1.1, August 2018

Industrial uses; Treatment of articles by dipping or pouring

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.

General description of the process covered

This SUMI applies to industrial uses where articles are treated by dipping or pouring. This Safe Use Information is based on the AISE_SWED_IS_13_3.

Operational Conditions

| Maximum duration | 480 minutes per day. |
|---------------------------|--|
| Range of application / | Indoor Use. |
| Process conditions | Process carried out at room temperature. |
| | In case of dilution, tap water at a maximum temperature of 45°C is used. |
| Air exchange rate | Provide a basic standard of general ventilation (1 to 3 air changes per |
| | hour). No LEV required. |

Risk Management Measures

| Measures related to | Wear suitable gloves and eye protection. |
|---------------------|---|
| personal protective | See section 8 of the SDS of this product for specifications. |
| equipment (PPE), | |
| hygiene and health | |
| evaluation | |
| | Training of workers in relation to proper use and maintenance of PPEs |
| | must be ensured. |
| Environmental | Prevent that undiluted product reaches surface waters. |
| measures | If appropriate AISE SPERC 8a.1.a.v2 may apply: wide dispersive use |
| | resulting in release to municipal sewage treatment plant. |

Additional good practice advice

| Don't eat or drink. Don't smoke. Don't use in proximity of open flame. | |
|--|---|
| Wash hands after use. Avoid contact with damaged skin. Do not mix with other products. | |
| Spillage instructions | Dilute with fresh water and mop up. |
| Hygiene practices | Follow the product instructions as specified on the label or in the product information sheet and use good occupational hygiene practices as specified in Section 7 of the product SDS. |

Additional information depending on product composition

The label and (when required) the Safety Data Sheet contain additional, product specific information crucial for working safely with mixtures. Please refer to the product label and SDS for information including, but not limited to: product hazard classification, potentially allergenic fragrances, notable ingredients and threshold limit values (when available).

Disclaimer

This is a document for communicating generic conditions of safe use of a product. It is the responsibility of the formulator to link this SUMI to the SDS of a specific product that he is selling.

If a SUMI (or associated SWED) code is mentioned in the SDS of a product, the formulator of that product declares that all substances in the mixture are present in such concentration, that the use of the product within the conditions of the SUMI is safe. When available, this safe use is ensured by evaluating the results of the chemical safety assessments as performed by the raw material suppliers. When no chemical safety assessment has been carried out by the supplier for an ingredient that contributes to the classification of the mixture, the formulator has performed a safety assessment himself.

Following Occupational Health legislation, the employer of workers that use products that are assessed as safe following SUMI conditions remains responsible for communicating relevant use information to employees. When developing workplace instructions for employees, SUMI Sheets should always be considered in combination with the SDS and the label of the product.

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WORKING ISTRUCTION TABLE



This tab provides instructions for appropriate and safe use of products and proper management of emergency situations for cleaning staff/

Attached to MSDS rel#11 11/28/2024

| Use description | [PROC4] Use in batch and other process (syn- thesis) where opportunity for exposure arise, [PROC8b]Transfer of substance or mixture (charging and discharging) at nondedicated facilities; [PROC13]Treatment of articles by dipping and pouring |
|---|---|
| Description | DEMONULE: 11 |
| Product name Classification of the product (100%) | REMOVIL Liquid H290 - May be corrosive to metals. |
| | H314 - Causes severe skin burns and eye damage. |
| | H318 - Causes serious eye damage. |
| Classification of the diluted product (maximum use | At maximux concentration of use (3%) the product is classified: |
| concentration) | H290 - May be corrosive to metals. H314 - Causes severe skin burns and eye damage |
| | H318 - Causes serious eye damage. |
| Handling of the product (100%) | Avoid contact and inhalation of vapors Wear protective gloves/clothing and eye/face protection. At work do not eat or drink. |
| Handling of the diluted product | Avoid contact and inhalation of vapors |
| | Wear protective gloves/clothing and eye/face protection. At work do not eat or drink. |
| DPI required concentrated product (racking, concentrated use, spillage) | Chemical resistant protective gloves (EN 374-1/EN374-2/EN374-3), safety glasses (EN 166). |
| | Chemical resistant protective gloves (EN 374-1/EN374-2/EN374-3), safety glasses |
| Diluited product | (EN 166). |

| In case of emergency (accidents involving exposure to the product) | Immediately inform the customer. Immediately inform the employer. Contact Poisons Centres tel. number in 1.4 section of the MSDS |
|--|---|
| Accidental release large quantities measures: concentrated product | Wear gloves, mask and protective clothing (for specifications refer to section 8.2. SDS). Possibly absorb it with inert materia or sucked it. After wiping up, wash with water the area and materials involved |
| Diluited product | Wear gloves and protective clothing (for specifications refer to section 8.2. SDS). Wash with water the area and materials involved |
| Storage of the product | Keep in original container closed tightly. Do not store in open or unlabelled containers. Keep containers upright and safe by avoiding the possibility of falls or collisions. Store in a cool and dry place, away from heat sources and direct exposure to sunlight. |
| In case of accidents, emergency or fire | Immediately inform the customer. Follow company emergency instruction. |