

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

### 1.1. Product identifier

Product name : X5 S/S  
Product code: refer to sales department

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

Alkaline cleaning

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], Application with rollers or brushes [PROC10]

Not recommended uses

Do not use for purposes other than those listed

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

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#### 1.4. Emergency telephone number

AEB SpA

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AEB USA

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AEB AFRICA (PTY) LTD

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## 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.

### 2.2. Label elements

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

Pictogram, Signal Word Code(s):  
GHS05 - Danger

Hazard statement Code(s):  
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% < 15% EDTA and salts thereof, < 5% phosphonates

**2.3. Other hazards**

The substance / mixture does NOT contain substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

Do not ingest. Keep out of reach of children.

**SECTION 3. Composition/information on ingredients**

**3.1 Substances**

Irrilevant

**3.2 Mixtures**

Refer to paragraph 16 for full text of hazard statements

Substance	Concentration[ w/w]	Classification	Index	CAS	EINECS	REACH
Sodium hydroxide	>= 10 < 20%	Met. Corr. 1, H290; Skin Corr. 1A, H314; Eye Dam. 1, H318	011-002-00-6	1310-73-2	215-185-5	01-2119457 892-27-XXX X
Tetrasodium ethylene diamine tetraacetate	>= 5 < 10%	Acute Tox. 4, H302; Eye Dam. 1, H318; Acute Tox. 4, H332; STOT RE 2, H373	607-428-00-2	64-02-8	200-573-9	01-2119486 762-27-XXX X
Hydrogen pentasodium C, C', C' '-Nitrilotris (methylphosphonate) - ionic mixture	>= 1 < 5%	Eye Irrit. 2, H319		2235-43-0	218-791-8	
Silicic acid, sodium salt	>= 1 < 5%	Skin Irrit. 2, H315; Eye Dam. 1, H318; STOT SE 3, H335		1344-09-8	215-687-4	01-2119448 725-31-xxxx

Substance	Concentration[ w/w]	Classification	Index	CAS	EINECS	REACH
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## 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 water.  
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:

Drink water with egg white; do not give bicarbonate.  
Absolutely do not induce vomiting or emesis. Seek medical advice immediately.

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

Ingestion may cause chemical burns in the mouth and throat. In 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

Immediately call a POISON CENTER or a doctor.

## SECTION 5. Firefighting measures

### 5.1. Extinguishing media

#### Suggested extinguishing media:

Water spray, CO<sub>2</sub>, 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 unguarded flames and possible sources of ignition. No smoking.

Provide a sufficient ventilation.

Evacuate the danger area and, in case, 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 material or suck 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:

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.  
In residential areas do not use on large surfaces.  
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 extreme caution. Store in a well ventilated place and away from heat sources (7-30 ° C)

Manufacture of food products:

Handle with care.

Store in a clean, dry, ventilated area away from heat and direct sunlight.

Keep container tightly closed. (7-30°C)

See the annex exposure scenario.

## **SECTION 8. Exposure controls/personal protection**

### **8.1. Control parameters**

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Related to contained substances:

Sodium hydroxide:

Limit value – Eight hours

(ppm)/(mg/m<sup>3</sup>)

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)

Switzerland: x/2 inhalable aerosol (MAK)

USA – OSHA: x/2

Limit Value – Short Term

(ppm)/(mg/m<sup>3</sup>)

Australia: 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

Romania: x/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) Ceiling limit value

Canada – Ontario: (1) Ceiling limit value

Canada – Québec: (1) Ceiling limit value

Finland: (1) Ceiling 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) Ceiling limit value

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

South Korea: (1) Ceiling limit value

Romania: (1) 15 minutes average value

Sweden: (1) Inhalable dust (2) Ceiling limit value

USA – NIOSH: (1) Ceiling limit value (15 min)

Argentina: CMP-C: 2 mg/m<sup>3</sup>

Czech Republic: PEL 1 mg/m<sup>3</sup>/ NPK-P 2 mg/m<sup>3</sup>

Italy: OEL: ACGIH -STEL: C 2.0 mg/m<sup>3</sup>; Tipo OEL: ACGIH - STEL: C2 mg/m<sup>3</sup> - Note: URT, eye, and skin irr

Estonia: short-term exposure limit (maximum chemical substance average allowable concentration in inhaled air - 15 minutes) 2 mg/m<sup>3</sup>(Ceiling limit" means a maximum permissible continuous concentration of 15 minutes in the air for rapidly acting substances)

Norway: ceiling value (a moment value that indicates the maximum concentration of a chemical in the breathing zone that should not be exceeded) 2 mg/m<sup>3</sup>

Lithuania: NRD 2 mg/m<sup>3</sup>

Slovakia: NPEL 2 mg/m<sup>3</sup>

South Africa: Short Term OEL-CL 2 mg/m<sup>3</sup>

Silicic acid, sodium salt:

- OEL Type: 16 - TWA: 3 mg/m<sup>3</sup> - Notes: Alveolar fraction

- OEL Type: 24 - TWA: 10 mg/m<sup>3</sup> - Notes: Breathable Fraction

- Substance: Sodium hydroxide

DNEL

Systemic effects Short term Workers inhalation = 1 (mg/m<sup>3</sup>)

Systemic effects Short term Consumers inhalation = 1 (mg/m<sup>3</sup>)

Local effects Short term Workers inhalation = 1 (mg/m<sup>3</sup>)

Local effects Short term Consumers inhalation = 1 (mg/m<sup>3</sup>)

- Substance: Tetrasodium ethylene diamine tetraacetate

DNEL

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Systemic effects Long term Consumers oral = 25 (mg/kg bw/day)  
Local effects Long term Workers inhalation = 1,5  
Local effects Long term Consumers inhalation = 0,6 (mg/m<sup>3</sup>)  
Local effects Short term Workers inhalation = 3 (mg/m<sup>3</sup>)  
Local effects Short term Consumers inhalation = 1,2 (mg/m<sup>3</sup>)  
PNEC  
Sweet water = 2,2 (mg/l)  
Sea water = 0,22 (mg/l)  
intermittent emissions = 1,56 (mg/l)  
STP = 43 (mg/l)  
ground = 0,72 (mg/kg ground)

- Substance: Silicic acid, sodium salt

DNEL

Systemic effects Long term Workers inhalation = 5,61 (mg/m<sup>3</sup>)  
Systemic effects Long term Workers dermal = 1,59 (mg/kg bw/day)  
Systemic effects Long term Consumers inhalation = 1,38 (mg/m<sup>3</sup>)  
Systemic effects Long term Consumers dermal = 0,8 (mg/kg bw/day)  
Systemic effects Long term Consumers oral = 0,8 (mg/kg bw/day)  
PNEC  
Sweet water = 7,5 (mg/l)  
Sea water = 1 (mg/l)  
intermittent emissions = 7,5 (mg/l)  
STP = 348 (mg/l)

## 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 Universal ABECK filters (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,

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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
Appearance	Clear colorless liquid	
Odour	not determined as considered not relevant for the characterization of the product	
Odour threshold	not determined as considered not relevant for the characterization of the product	
pH	>12,0 (20° C; 3% sol); >12,0 (20° C; 100%)	
Melting point/freezing point	not determined as considered not relevant for the characterization of the product	
Initial boiling point and boiling range	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	
Evaporation rate	not determined as considered not relevant for the characterization of the product	
Flammability (solid, gas)	not determined as considered not relevant for the characterization of the product	
Upper/lower flammability or explosive limits	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	
Vapour density	not determined as considered not relevant for the characterization of the product	
Relative density	1,30 ± 0,05 (20 ° C)	
Solubility	in water	
Water solubility	in all proportions	
Partition coefficient: n-octanol/water	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	
Viscosity	not determined as considered not relevant for the characterization of the product	
Explosive properties	not determined as considered not relevant for the characterization of the product	
Oxidising properties	not determined as considered not relevant for the characterization of the product	

Physical and chemical properties	Value	Determination method
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### 9.2. Other information

No data available.

## SECTION 10. Stability and reactivity

### 10.1. Reactivity

Strong base

### 10.2. Chemical stability

Stable under recommended storage and handling conditions

### 10.3. Possibility of hazardous reactions

It reacts with aluminum, tin, zinc and their alloys, bronze, lead, etc. emitting hydrogen. Very exothermic reaction with strong acids.

### 10.4. Conditions to avoid

Avoid prolonged contact with air, storage at temp. below 10 ° C and the provisions of 10.3

### 10.5. Incompatible materials

It can generate flammable gases in contact with halogenated organic substances, elementary metals.

### 10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

## SECTION 11. Toxicological information

### 11.1. Information on toxicological effects

ATE(mix) oral = 30.427,3 mg/kg

ATE(mix) dermal = ∞

ATE(mix) inhal = 188,0 mg/l/4 h

(a) acute toxicity: Sodium hydroxide: Ingestion - LD50 rat (mg / kg / 24h bw): nd

Skin contact - LC50 rabbit (mg / kg / 24h bw): 1350

Inhalation - LD50 rat (mg / l / 4h): nd

Tetrasodium ethylene diamine tetraacetate: Ingestion - LD50 rat (mg / kg / 24h bw): 1 780 - 2 000

Skin contact - LC50 rat / rabbit (mg / kg / 24h bw): nd

Inhalation - LD50 rat (mg / l / 4h): > 1 - 5 (dust-fog)

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.a.

Silicic acid, sodium salt: Ingestion - LD50 rat (mg / kg / 24h bw): 3400

Skin contact - LC50 rabbit (mg / kg / 24h bw): > 500

Inhalation: LC50 (rat) > 2.06 g / m<sup>3</sup>

(b) skin corrosion/irritation Corrosive product: causes severe skin burns and eye damage.

Sodium hydroxide: Corrosive

Tetrasodium ethylene diamine tetraacetate: Not corrosive

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

Silicic acid, sodium salt: Non-corrosive

Sodium hydroxide: Irritating

Tetrasodium ethylene diamine tetraacetate: Treatment of intact rabbit skin with an aqueous 80% Na<sub>4</sub> EDTA preparation caused mild or absent irritation. These data show that it is not necessary to classify and label the substance for skin irritant properties based on EU or GHS regulations.

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

Silicic acid, sodium salt: Irritating

(c) serious eye damage/irritation: 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.

Sodium hydroxide: Corrosive

Tetrasodium ethylene diamine tetraacetate: The opacity caused by the instillation of the undiluted substance in the eye of the rabbits is irreversible. These data demonstrate that it is necessary to classify and label the substance for irritant and corrosive properties according to EU or GHS regulations.

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

Silicic acid, sodium salt: Corrosive

Sodium hydroxide: Irritating

Tetrasodium ethylene diamine tetraacetate: The opacity caused by the instillation of the undiluted substance in the eye of the rabbits is irreversible. These data demonstrate that it is necessary to classify and label the substance for irritant and corrosive properties according to EU or GHS regulations.

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

Silicic acid, sodium salt: Irritating

(d) respiratory or skin sensitization: Sodium hydroxide: Not sensitizing

Tetrasodium ethylene diamine tetraacetate: Not sensitizing

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

Silicic acid, sodium salt: Not sensitizing

(e) germ cell mutagenicity: Sodium hydroxide: Not mutagenic

Tetrasodium ethylene diamine tetraacetate: As for Na<sub>4</sub>EDTA, no genotoxicity studies are available, therefore data from other sodium EDTA and free acid EDTA salts have been considered. (For the read-across justification, see also section 13). The Na EDTA salts were negative in numerous ames tests. The Na salts of EDTA were negative in numerous tests on mouse lymphoma. Numerous other tests were performed in vitro and in general the EDTA was not genotoxic in vitro. In vivo, somatic cells in mice (bone marrow cells) showed negative results compared to micronuclei endpoints, aneuploidy and sibling chromatid exchanges. In germ cells, negative results have been obtained for the induction of structural chromosomal aberrations in spermatogonia, for the induction of aneuploidy in primary and secondary spermatocytes and also for the induction of dominant lethals. A positive result was obtained in a micronuc

test

Hydrogen pentasodium C, C', C'-Nitrilotris (methylphosphonate) - ionic mixture: Not available  
Silicic acid, sodium salt: Not mutagenic  
(f) carcinogenicity: Sodium hydroxide: Not carcinogenic  
Tetrasodium ethylene diamine tetraacetate: There are no epidemiological studies available to evaluate the carcinogenic potential of Na<sub>4</sub>EDTA. No carcinogenicity studies of Na<sub>4</sub>EDTA are available. Therefore, carcinogenicity studies with Na<sub>3</sub>EDTA were used for evaluation. A biological assay of Na<sub>3</sub>EDTA for possible carcinogenicity was conducted by administering test material in the diet to Fischer rats 344 and B6C3F1 mice. The studies did not report specific data on renal toxicity in either species even though histology was performed. Although a variety of tumors occurred between the test and control animals of both species, no tumor was related to treatment. Summing up the negative results of the carcinogenicity study and of the SHE cell transformation tests, as well as the general non-mutagenicity after oral doses, it can be concluded that there are no concerns about a carcinogenic potential of EDTA.

Hydrogen pentasodium C, C', C'-Nitrilotris (methylphosphonate) - ionic mixture: Not available  
Silicic acid, sodium salt: Not available  
(g) reproductive toxicity: Sodium hydroxide: Non-toxic for reproduction  
Tetrasodium ethylene diamine tetraacetate: Numerous in vitro tests are available on the teratogenic effects of EDTA or Na salts of EDTA. However, they gave inconsistent results and were generally not well reported. Therefore they were not considered for risk assessment. There are 2 cases of pregnant women treated with CaNa<sub>2</sub>EDTA due to lead intoxication. However, as these treatments were performed late in pregnancy, these data were not considered for risk assessment. Endpoint conclusion: no observed adverse effects (negative)

Hydrogen pentasodium C, C', C'-Nitrilotris (methylphosphonate) - ionic mixture: Not available  
Silicic acid, sodium salt: Not available  
(h) specific target organ toxicity (STOT) single exposure: Sodium hydroxide: The substance can be absorbed into the body by inhalation of its aerosols and by ingestion.  
Tetrasodium ethylene diamine tetraacetate: Non-toxic  
Hydrogen pentasodium C, C', C'-Nitrilotris (methylphosphonate) - ionic mixture: Not available  
Silicic acid, sodium salt: Irritating to the respiratory tract  
(i) specific target organ toxicity (STOT) repeated exposure: Sodium hydroxide: The substance can be absorbed into the body by inhalation of its aerosols and by ingestion. The symptoms of pulmonary edema often do not manifest themselves before a few hours and are exacerbated by physical exertion. Rest and medical observation are therefore essential  
Tetrasodium ethylene diamine tetraacetate: Based on the results obtained in the toxicity studies and taking into account the provisions established in the CLP Regulation, a classification as STOT RE Cat 2 (H373)  
NOAEL oral (rat): 500 mg / kg bw / day  
NOAEL oral (mouse) is justified : 938 mg / kg bw / day  
NOAEC inhalation (rat): 3 - 15 mg / m<sup>3</sup> air  
LOAEC inhalation (rat): 15 - 30 mg / m<sup>3</sup> air  
Hydrogen pentasodium C, C', C'-Nitrilotris (methylphosphonate) - ionic mixture: Not available  
Silicic acid, sodium salt: Not available  
(j) aspiration hazard: Sodium hydroxide: Not available  
Tetrasodium ethylene diamine tetraacetate: Not classified  
Hydrogen pentasodium C, C', C'-Nitrilotris (methylphosphonate) - ionic mixture: Not available  
Silicic acid, sodium salt: Not available

## SECTION 12. Ecological information

### 12.1. Toxicity

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Related to contained substances:  
Sodium hydroxide:  
Acute toxicity - LC50 fish (mg / l / 96h): 45  
Acute toxicity - crustaceans EC50 (mg / l / 48h): 40  
Acute toxicity algae ErC50 (mg / l / 72-96h): nd

Chronic toxicity - NOEC fish (mg / l): nd  
Chronic toxicity - crustaceans NOEC (mg / l): nd  
Chronic toxicity NOEC algal (mg / l): nd  
C(E)L50 (mg/l) = 45

Tetrasodium ethylene diamine tetraacetate:

Acute toxicity - fish LC50 (mg / l / 96h): 41 - 1 592 (frequent value > 100)  
Acute toxicity - fish LC100 (mg / l / 96h) 75 - 1 846  
Acute toxicity - crustaceans EC50 (mg / l / 48h): 140  
Acute toxicity - crustaceans EC50 (mg / l / 24h): 610 - 625 (frequent value > 500)  
Acute toxicity - crustaceans EC0 (mg / l / 48h): 100  
Acute toxicity - crustaceans EC0 (mg / l / 24h): 310  
Acute toxicity - crustaceans E100 (mg / l / 48h): 180  
Acute algae toxicity ErC50 (mg / l / 72h): 2.77 - 1 000 (frequent data > 100)  
Acute algae toxicity EC10 (µg / l / 72h): 700 - 307 630  
Acute algae toxicity EC90 (mg / l / 72h): 100  
Chronic toxicity - NOEC fish (mg / l 35 g) 25.7  
Chronic toxicity - crustaceans NOEC (mg / l 21g): 25  
Chronic toxicity - crustaceans LOEC (mg / l 21g): 50  
Chronic toxicity - NOEC algae (µg / l 72h): 390 - 100 000  
Chronic toxicity - LOEC algae (µg / l 21g): 780 - 1 000 000

Microorganism toxicity - EC10 (30 min) 500 mg / L

Terrestrial macroorganism toxicity except anthropod EC50 (14 g) 156.46 mg / kg soil

C(E)L50 (mg/l) = 100

NOEC (mg/l) = 25

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

Not available

Silicic acid, sodium salt:

Acute toxicity - LC50 fish (mg / l / 96h): 260 - 310 mg / L (Onchorhynchus mykiss)

Acute toxicity - crustaceans EC50 (mg / l / 48h): 1700 (Daphnia magna)

Acute toxicity algae ErC50 growth rate (mg / l / 72-96h): > 345.4 (Scenedesmus subspicatus) Chronic toxicity - NOEC fish (mg / l): nd

Chronic toxicity - crustaceans NOEC (mg / l): nd

Chronic toxicity NOEC algal (mg / l): nd

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

## 12.2. Persistence and degradability

=====

Related to contained substances:

Sodium hydroxide:

Not applicable

Tetrasodium ethylene diamine tetraacetate:

The EDTA (acid form) and its salts are not readily biodegradable according to the OECD criteria. It has been shown that under special conditions (slightly alkaline adaptation or pH, a realistic condition of water below the environmental surface, the biodegradability of EDTA is considerably. Therefore it can be concluded that EDTA is ultimately biodegradable under such environmental conditions.

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

Not available

Silicic acid, sodium salt:  
Not available

### 12.3. Bioaccumulative potential

=====  
Related to contained substances:  
Sodium hydroxide:  
Not bioaccumulative

Tetrasodium ethylene diamine tetraacetate:  
Not bioaccumulative

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

Silicic acid, sodium salt:  
Not bioaccumulable

### 12.4. Mobility in soil

=====  
Related to contained substances:  
Sodium hydroxide:  
Not applicable

Tetrasodium ethylene diamine tetraacetate:  
Due to the ionic structure, no adsorption on the organic fraction of the soil or sediments is expected for EDTA (acid form) and its salt. The test substance will not evaporate from the surface of the water in the atmosphere. The test substance will preferably be distributed in the compartment water.

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

Silicic acid, sodium salt:  
Not available

### 12.5. Results of PBT and vPvB assessment

No PBT/vPvB ingredient is present

### 12.6. Other adverse effects

No adverse effects

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

The (l) 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.

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## 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

ADR/RID/IMDG/ICAO-IATA: 3266

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

### 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. Transport in bulk according to Annex II of MARPOL73/78 and IBC Code**

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 contained substances (All. XVII Reg. EC 1907/2006): not applicable  
Substances in Candidate List (art. 59 Reg. EC 1907/2006): the product does not contain SVHC  
Substances subject to authorisation (Ann. XIV Reg. CEC 1907/2006): the product does not contain SVHC  
Reg. EC 648/04: see 2.2  
Reg. (EU) n. 1169/2011: see 2.2  
Reg (UE) 528/2012: see.to 2.2

REGULATION (EU) No 1357/2014 - waste:  
HP8 - Corrosive

#### **15.2. Chemical safety assessment**

No chemical safety assessment was carried out by the supplier

### **SECTION 16. Other information**

#### **16.1. Other information**

Points modified compared to previous release: 1.2. Relevant identified uses of the substance or mixture and uses advised against 2.2. Label elements

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.

H302 = Harmful if swallowed.

H332 = Harmful if inhaled.

H373 = May cause damage to organs through prolonged or repeated exposure .

H319 = Causes serious eye irritation.

H315 = Causes skin irritation.

H335 = May cause respiratory irritation.

Classification based on data of all mixture components

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.

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Regulation (EC) n. 648 of 31/03/04 (on detergents) et seq.  
Regulation (UE) n. 1169/2011 (on the provision of food information to consumers)  
Directive 2012/18/EU (on the control of major-accident hazards involving dangerous substances) et seq.  
Regulation (UE) 528/2012 (Biocides) et seq.

Procedure used to classify under CLP mixture (Reg . EC 1272/2008):

Physical hazards: On the basis of experimental data  
H314 Skin. Corr. 1A: On the basis of experimental data / Calculation Method  
Other hazards: Calculation Method

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 européen relative au transport International des marchandises 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 concernant le transport International ferroviaire des marchandises 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

References and Sources:

- ECHA Registered Substances:  
<https://echa.europa.eu/web/guest/information-on-chemicals/registered-substances>
  - SDS supplier
-

- GESTIS DNEL Database: <http://www.dguv.de/ifa/gestis/gestis-dnel-datenbank/index-2.jsp>
- GESTIS International Limit Value: <http://limitvalue.ifa.dguv.de>

This msds was made in good faith by AEB 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: label elements, exposure scenario updating, attached working instruction table

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**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**

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

**Risk Management Measures**

<b>Measures related to personal protective equipment (PPE), hygiene and health evaluation</b>	Wear suitable gloves. 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.
<b>Environmental measures</b>	Prevent that undiluted product reaches surface waters. <b>If appropriate AISE SPERC 8a.1.a.v2 may apply:</b> wide dispersive use resulting in release to municipal sewage treatment plant.

**Additional good practice advice**

<p><b>Don't eat or drink.</b>  <b>Don't smoke.</b>  <b>Don't use in proximity of open flame.</b></p>	
<p><b>Wash hands after use.</b>  <b>Avoid contact with damaged skin.</b>  <b>Do not mix with other products.</b></p>	
<p><b>Spillage instructions</b></p>	<p>Dilute with fresh water and mop up.</p>
<p><b>Hygiene practices</b></p>	<p>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.</p>

**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**

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

**Risk Management Measures**

<b>Measures related to personal protective equipment (PPE), hygiene and health evaluation</b>	Wear suitable gloves. 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.
<b>Environmental measures</b>	Prevent that undiluted product reaches surface waters.
	<b>If appropriate AISE SPERC 8a.1.a.v2 may apply:</b> wide dispersive use resulting in release to municipal sewage treatment plant.

**Additional good practice advice**

<p><b>Don't eat or drink.</b></p> <p><b>Don't smoke.</b></p> <p><b>Don't use in proximity of open flame.</b></p>	
<p><b>Wash hands after use.</b></p> <p><b>Avoid contact with damaged skin.</b></p> <p><b>Do not mix with other products.</b></p>	
<b>Spillage instructions</b>	Dilute with fresh water and mop up.
<b>Hygiene practices</b>	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**

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*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\_10\_1\_G***Version 1.1, August 2018****Brushing; Automated task***

*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 the product is used in an automated brushing task. This Safe Use Information is based on the **AISE\_SWED\_IS\_10\_1**.

**Operational Conditions**

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

**Risk Management Measures**

<b>Measures related to personal protective equipment (PPE), hygiene and health evaluation</b>	Wear suitable gloves and eye protection. 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.
<b>Environmental measures</b>	Prevent that undiluted product reaches surface waters. <b>If appropriate AISE SPERC 8a.1.a.v2 may apply:</b> wide dispersive use resulting in release to municipal sewage treatment plant.

**Additional good practice advice**

<p><b>Don't eat or drink.</b>  <b>Don't smoke.</b>  <b>Don't use in proximity of open flame.</b></p>	
<p><b>Wash hands after use.</b>  <b>Avoid contact with damaged skin.</b>  <b>Do not mix with other products.</b></p>	
<p><b>Spillage instructions</b></p>	<p>Dilute with fresh water and mop up.</p>
<p><b>Hygiene practices</b></p>	<p>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.</p>

**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).

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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**

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

**Risk Management Measures**

<b>Measures related to personal protective equipment (PPE), hygiene and health evaluation</b>	Wear suitable gloves and eye protection. 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.
<b>Environmental measures</b>	Prevent that undiluted product reaches surface waters.
	<b>If appropriate AISE SPERC 8a.1.a.v2 may apply:</b> wide dispersive use resulting in release to municipal sewage treatment plant.

**Additional good practice advice**

<p><b>Don't eat or drink.</b>  <b>Don't smoke.</b>  <b>Don't use in proximity of open flame.</b></p>	
<p><b>Wash hands after use.</b>  <b>Avoid contact with damaged skin.</b>  <b>Do not mix with other products.</b></p>	
<p><b>Spillage instructions</b></p>	<p>Dilute with fresh water and mop up.</p>
<p><b>Hygiene practices</b></p>	<p>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.</p>

**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).

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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/users.

Attached to MSDS rel#7 09/25/20

Use description	[PROC4] Use in batch and other process (syn- thesis) where opportunity for exposure arise; [PROC8b]Transfer of substance or preparation (charging/discharging) from/to ves- sels/large containers at dedicated facilities; Application with rollers or brushes [PROC10]; [PROC13]Treatment of articles by dipping and pouring
Product name	X5S/S
Classification of the product (100%)	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 concentration)	At maximux concentration of use (3%) the product is classified: 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)	Chemical resistant protective gloves (EN 374-1/EN374-2/EN374-3), safety glasses (EN 166).
Diluted product	Chemical resistant protective gloves (EN 374-1/EN374-2/EN374-3), safety glasses (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) After wiping up, wash with water the area and materials involved
Diluted product	Wear gloves, mask 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.