

Material Safety Data Sheet

under Regulation (EC) 1907/2006 and Regulation (EC) 453/2010

No review. 2: 30/10/2015

Date of Release: 30/10/2015

SECTION 1: Identification of the substance or mixture and of the company

1.1 Product identifiers

Product Name: Unisan

Product code: B.01040

N. INDEX: . not applicable

REACH number: not applicable

CAS: . not applicable

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

Identified uses: treatment of metals

1.3. Details of the supplier of the safety data sheet

Company BAILO ALDO & FIGLIO S.R.L.

Address Via Torino 4

District and Country 15060 Basaluzzo, AL, Italy

tel. 0143.489791

e-mail address info@bailotools.com

1.4. Emergency telephone number

Poison center of Milan 02 66101029 (CAV Niguarda Ca 'Granda-Milan)

Poison Centre of Pavia 0382 24444 (CAV Maugeri Foundation IRCCS - Pavia)

Poison Center of Bergamo 800 883300 (CAV Riuniti Hospital - Bergamo)

Poison Center of Florence 055 7947819 (CAV Careggi Hospital - Florence)

Poison Center of Rome 06 3054343 (CAV Gemelli Hospital - Rome)

Poison Center of Rome 06 49978000 (CAV Policlinico Umberto I - Rome)

Poison Center of Naples 081 7472870 (CAV Cardarelli Hospital - Naples)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008

Reproductive toxicity (Category 1B), H360FD

For the full text of hazard (H) indications mentioned in this section, see Section 16.

Classification according to EU Directives 67/548 / EEC or 1999/45 / EC R60, R61

For the full text of the R phrases mentioned in this section, see Section 16.

2.2 Label elements

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



Health hazard (GHS08)

Warning Danger

Hazard

H360FD May damage fertility. Suspected of damaging the unborn child.

Safety advice

P201 Obtain special instructions before use.

P308 + P313 IF exposed or possible exposure, consult a doctor.

Description of any risk

Restricted to professional users.

2.3 Other hazards - none

SECTION 3: Composition / information on ingredients

3.1 Substances

3.1.1 Sodium borate Sodium borate decahydrate

Formula: $B_4Na_{2O}_7 \cdot 10H_2O$

Molecular Weight: 381.37 g / mol

CAS: 1303-96-4

EC No: 215-540-4

N. INDEX: 005-011-01-1

Registration Number: 01-2119490790-32-XXXX

Components according to Regulation (EC) No 1272/2008

Concentration 30-60%

Disodium tetraborate decahydrate included on the candidate list of very high concern (SVHC) according to the Regulation (EC) No. 1907/2006 (REACH)

Repr. 1B; H360FD <= 100%

.
Classification according to Directive 1999/45 / EC

T, Repr.Cat.2, R60 - R61 <= 100%

For the full text of H codes and R-phrases mentioned in this section, see section 16.

3.1.2 boric acid

Formula: H_3BO_3

Molecular Weight: 61.83 g / mol

CAS: 10043-35-3

EC No: 233-139-2

N. INDEX: 005-007-00-2

Registration Number: 01-2119486683-25-XXXX

Components according to Regulation (EC) No 1272/2008

Concentration 30-60%

Boric acid Included in the list of candidate substances of very high concern (SVHC) according to the Regulation (EC) No. 1907/2006 (REACH)

Repr. 1B; H360FD <= 100%

.
Classification according to Directive 1999/45 / EC

T, Repr.Cat.2, R60 - R61 <= 100%

For the full text of H codes and R-phrases mentioned in this section, see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

See a doctor. Show this safety data sheet to the doctor.

If inhaled

If breathed in, move person into fresh air. If not breathing, give breathing artificial. See a doctor.

In case of contact with skin

Wash with soap and plenty of water. See a doctor.

In case of contact with eyes

As a precaution flush eyes with water.

Swallowing

Never give anything by mouth to an unconscious person. Rinse mouth with water. See a doctor.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in section 2.2 on the labeling and / or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed no data available

SECTION 5: Fire-fighting measures

5.1 Extinguishing

Suitable extinguishing agents

Use extinguishing measures appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance oxides of boron, oxides of sodium

5.3 Advice for firefighters

Wear in case of fire, if necessary, protective respiratory with independent air supply.

5.4 Further information The product itself does not burn.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid creating dust. Avoid breathing dust. Provide adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

See Section 8 for personal protective equipment.

6.2 Environmental

Avoid leakage or spillage, if this can be done without danger. Do not let product enter discharges.

6.3 Methods and materials for containment and cleaning

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid formation of dust and aerosols. Avoid exposure – obtain special instructions before use.

Adopt adequate ventilation at places where dust is formed.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well ventilated.

7.3 Specific end use

Aside from the uses described in section 1.2 no other specific uses are covered.

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Components with workplace

It contains no substances with occupational exposure limit value.

8.2 Exposure controls

Engineering controls

Handle in accordance with good practice of industrial hygiene and safety practice. Wash hands before breaks and at the end of the working day

Personal protective equipment

Eye / face

Safety glasses with side shields conforming to EN166 Use equipment for eye protection

tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU)

Skin protection

Handle with gloves. Gloves must be inspected before being used. Using a suitable technique for the removal of gloves (without touching the glove's outer surface) to avoid skin contact with this product Dispose of the gloves contaminated after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686 / EEC and the standard EN 374 They are derived.

Full contact

Material: Nitrile rubber minimum thickness: 0.11 mm Break through time: 480 min

Material tested: Dermatriil® (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material: Nitrile rubber minimum thickness: 0.11 mm Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272

Data source: KCL GmbH, D-36124 Eichenzell, tel. +49 (0) 6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions other than those mentioned in EN 374, contact the supplier of CE approved gloves. This recommendation applies by way of advice and must be assessed by a industrial hygienist and a security officer aware of the specific situation of the intended use by our clients. You must not be regarded as an endorsement of a specific exposure scenario.

Physical protection

impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the work place.

Respiratory protection

If the risk assessment shows the need for air-purifying respirators, use a filtering facepiece with filters P3 (EN 143) as a backup to engineering. If the respirator is the sole means of protection, use a system ventilated full face. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Environmental exposure controls

Avoid leakage or spillage, if this can be done without danger.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical

a) Appearance Form: crystalline

Color: yellow fluorescent

b) Odour no data available

c) Odour Threshold no data available

d) pH 9.2 to 2 g / l

e) Melting point / freezing point 62 ° C

f) Boiling Point

Home and boiling range no data available

g) Flash point. no data available

h) Evaporation rate no data available

i) Flammability no data available

j) Flammability top / bottom or explosive limits no data available

k) Vapour pressure no data available

l) Vapour density no data available

m) Relative density 1,73 g / cm³ at 25 ° C

n) Water solubility completely soluble

o) Partition coefficient n-Octanol / water no data available

p) Auto-ignition temperature no data available

q) Decomposition temperature no data available

r) Viscosity no data available

s) Explosive properties no data available

t) Oxidizing properties no data available

9.2 Other safety information no data available

SECTION 10: Stability and reactivity

10.1 Reactivity no data available

10.2 Chemical stability Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions no data available

10.4 Conditions to avoid no data available

10.5 Incompatible materials

Strong oxidizing agents, Strong reducing agents

10.6 Hazardous decomposition products no data available

In case of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

11.1.1 Disodium tetraborate decahydrate

Acute toxicity

LD50 Oral - rat - 4,500 to 5,000 mg / kg

LD50 Dermal - rabbit - 10,000 mg / kg

11.1.2 boric acid

Acute toxicity

LD50 Oral - rat - 2,660 mg / kg

Corrosion / irritation no data available

11.1.3 data common to boratodi sodium and boric acid

Serious eye damage / eye irritation no data available

Respiratory or skin sensitization no data available

Germ cell mutagenicity no data available

Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by IARC.

Reproductive toxicity fetotoxicity

Presumed human reproductive toxicant

Specific target organ toxicity - single exposure no data available

Specific target organ toxicity - repeated exposure no data available

Aspiration hazard no data available

more information

RTECS: VZ2275000 and RTECS: ED4550000

Toxicity of borates in humans: ingestion or absorption may cause nausea, vomiting, diarrhea, cramps abdominal, erythematous lesions of the skin and mucous membranes. Additional symptoms include: circulatory collapse,

tachycardia, cyanosis, delirium, convulsions and coma. In the newborn, a dose of less than 5 grams caused death, while in the adult lethal dose is between 5 and 20 grams.

Liver - Irregularities - Rated based on scientific evidence about Man

SECTION 12: Ecological information

12.1

12.1.1 Disodium tetraborate decahydrate

Toxicity

Toxicity to fish LC50 - Carassius auratus (Goldfish) - 178 mg / l - 72 h

Toxicity to daphnia and other aquatic invertebrates

EC50 - Daphnia magna (Water flea) - 1,085 to 1,402 mg / l - 48 h

Algae toxicity IC50 - Desmodesmus subspicatus (green algae) - 158 mg / l - 96 h

12.1.2 boric acid

Toxicity to fish LC50 - Ptychocheilus lucius - 279 mg / l - 96 h

LC0 - Bluegill -> 1,021 mg / l - 96 h

Toxicity to daphnia and other aquatic invertebrates

LC50 - Daphnia magna (Water flea) - 53.2 mg / l - 21 d

EC50 - Daphnia magna (Water flea) - 133 mg / l - 48 h

12.1.3 data common to boratodi sodium and boric acid

12.2 Persistence and degradability no data available

12.3 Bioaccumulative potential no data available

12.4 Mobility in soil no data available

12.5 Results of PBT and vPvB

PBT / vPvB assessment not available as unsolicited or carried out the chemical safety assessment.

12.6 Other adverse effects no data available

SECTION 13: Disposal considerations

13.1 Methods of waste treatment

Product

Give non-recyclable solutions and surpluses to a licensed disposal company.

Contaminated

Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number

ADR / RID: - IMDG: - IATA: -

14.2 UN proper shipping name

ADR / RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

14.3 Transport hazard class

ADR / RID: - IMDG: - IATA: -

14.4 Packing group

ADR / RID: - IMDG: - IATA: -

14.5 Environmental hazards

ADR / RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user no data available

SECTION 15: Regulatory information

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1 Standards and legislation on health, safety and environment specific to the substance or mixture

Authorizations and / or use restrictions

Disodium tetraborate decahydrate CAS: 1303-96-4

Boric acid CAS: 10043-35-3

Candidate List of Substances of Very High Concern for Authorization

Toxic for reproduction (article 57c)

ED / 30/2010

15.2 Chemical Safety Assessment

This product has not been made a chemical safety assessment.

SECTION 16: Other information

Full text of hazard (H) indications mentioned in section 2-3.

H360FD May damage fertility. Suspected of damaging the unborn child.

Repr. Reproductive toxicity

Full text of phrases referred to under sections 2 and 3

T Toxic

R60 May impair fertility.

R61 May cause harm to the unborn child.

More information

The above information is believed to be correct but can not be all inclusive and shall

be used only as a guide. Company and its affiliates cannot be held liable for any damage resulting from handling or from contact with the above product.