

1. IDENTIFICATION OF PREPARATION AND COMPANY**PRODUCT IDENTIFIER**

Trade name: Avesta Classic Neutralising Agent 502
Avesta Neutralising Agent 502
Avesta Neutralizer 502
Avesta Classic Neutralizer 502

RELEVANT IDENTIFIED USES AND USES ADVISED AGAINST

Application and use: Neutralisation of acidic water
Not to be used on Only for the neutralising of Avesta pickling and cleaning products.

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Manufacturer: **Böhler Welding Group Nordic AB**
Avesta Finishing Chemicals
Lodgatan 14, 211 24 MALMÖ, Sweden
Telephone: +46 (0)40 288 300
E-mail: safety@avestafinishing.com

EMERGENCY TELEPHONE NUMBER

Emergency number: +46-8-331 231 (24 hrs)

MISCELLANEOUS

Issue date: 2012-11-26
Version No: 3
Valid from: 2012-12-01

2. HAZARDS IDENTIFICATION**CLASSIFICATION****Health hazard in case of accidental exposure (R-phrases):**

Causes severe burns. See also section 11.

Environmental effects:

Alkaline solution that at local discharge will affect pH-value. See section 12.

Physical and chemical risks:

Non-flammable. In contact with metals hydrogen gas is formed. Explosive, toxic gas can form when in contact with trichloroethylene, see also section 5 and 10.

LABEL ELEMENTS

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Hazard symbols:



Corrosive

R-phrases:

R 35

S-phrases:

S 26

S 28

S 36/37/39

S 45

S 61

OTHER HAZARDS

Not known

3. COMPOSITION/INFORMATION ON INGREDIENTS

PREPARATION

Chemical identity: Alkaline solution with corrosive properties.

INFORMATION ON INGREDIENTS

Hazardous components, chemical name, formula	CAS No.	EC No.	Contents weight-%	Hazard symbol/ Risk phrase*
Sodium hydroxide , NaOH	1310-73-2	215-185-5	Appr. 25	C: R35

*The full texts of the phrases are shown in section 16.

Additional information: Classification according to directive 67/548/EEC.

Symbols and risk phrases are for concentrated substances.

4. FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES AND INDICATION OF IMMEDIATE AND SPECIAL TREATMENT NEEDED

Inhalation:

Remove to fresh air. Keep victim lying down, quiet and warm. Rinse nose and mouth with water. Might require assistance with breathing. Seek medical care even if only slight inconvenience occurs.

Ingestion:

Only when conscious, rinse mouth, give plenty of milk or water to drink (approx. 500 ml). DO NOT induce vomiting. Seek medical advice.

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Skin contact:

Remove all contaminated clothing immediately. Wash off with plenty of soap and water. Always seek medical advice. Launder clothes before reuse.

Eye contact:

Rinse immediately for at least 15-30 minutes with plenty of water. Eyelids should be held away from the eyeball to ensure thorough rinsing. Always seek medical advice (eye specialist). Keep rinsing during transport.

Information for medical care:

Symptomatic treatment is advised. Inform medical personnel that injury is caused by sodium hydroxide solution.

SYMPTOMS ACUTE AND DELAYED

Not known

5. FIRE FIGHTING MEASURES**EXTINGUISHING MEDIA**

Non combustible. Use agent most appropriate to extinguish surrounding fire.

SPECIAL HAZARDS ARISING FROM THE MITURE

Not known

ADVICE FOR FIREFIGHTERS**Danger of fire/explosion:**

In contact with certain metals (i.e. zinc, aluminium) hydrogen gas is formed in small quantities, which together with air can cause explosion. Explosive gas can form when in contact with trichloroethylene. Use water spray to cool fire-exposed containers.

Protective clothing for firemen:

Appropriate protective clothing and breathing apparatus should be used

How to clean or destroy soiled fire equipment:

Thoroughly wash with water.

6. ACCIDENTAL RELEASE MEASURES**PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND AMERGENCY PROCEDURES****Personal precautions:**

Avoid direct contact. For handling and personal protection see section 7 and 8.

ENVIROMENTAL PRECAUTIONS**Spillage(water, air, soil):**

Prevent spillage from entering sewage or public waters.

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METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP**Methods for cleaning up:**

Collect as much as possible in a clean container for (preferable) reuse or disposal. Rinse remnant with plenty of water. Spillage will be picked up and disposed as hazardous waste.

REFERENCE TO OTHER SECTIONS

Handling and storage section 7, exposure control/personal protection section 8 and disposal considerations section 13.

7. HANDLING AND STORAGE**PRECAUTIONS FOR SAFE HANDLING****Technical measures:**

Working place and methods should be worked out in order to avoid direct contact. Keep working area well ventilated. Emergency eye wash and safety shower should be available at working area.

To prevent fire and explosion:

Not relevant.

Precautions:

Avoid fume generation and accumulation by using in a well-ventilated area. Use in areas having local exhaust and general ventilation. Prevent accidents caused by slipperiness by rinsing floor, tools with water.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES**Incompatible products:**

Not applicable

Storage conditions:

Keep containers securely closed when not in use and in an upright position. Store in areas where temperature remains between 0-35°C at all times.

Packaging materials:

Store in PP, PE or PVC.

SPECIFIED END USES

See section 1. Contact manufacturer/supplier for more information.

8. EXPOSURE CONTROL/PERSONAL PROTECTION**CONTROL PARAMETERS****Exposure limits:**

Sodium hydroxide:

Spain: VLA-ED 2 mg/m³ (8 hrs)

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EXPOSURE CONTROLS**Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment. Use gas filter type B, dust filter type P3 during dust- and mist forming conditions.

Hand protection:

Rubber gloves, i.e. butyl, nitrile rubber.

Eye protection:

Face shield.

Skin and body protection:

Rubber boots and acid resistant clothes, which covers all body parts exposed to splashes.

Specific hygienic measures:

Do not inhale fumes, avoid contact with eyes, skin and clothes. It is not allowed to eat, drink and smoke at workplace. Remove contaminated clothes immediately. Wash hands and face thoroughly after working with Sodium Hydroxide Solution.

Environmental exposure controls:

See section 6 and 7.

9. PHYSICAL AND CHEMICAL PROPERTIES**INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES****Physical state (form, colour, smell) at 20°C:**

Liquid, colourless and odourless.

Boiling point:

112°C

Flash point / Explosion properties:

Not applicable

Melting point:

-18°C

Vapor Pressure:

<0.01 kPa

pH:

>14

Density:

1.2-1.3 g/cm³ (20°C)

Viscosity :

7.8 mPas (20°C)

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Solubility in water at 20°C:

Completely miscible.

Solubility in organic solvents:

Not applicable.

10. STABILITY AND REACTIVITY**REACTIVITY**

Reacts strongly with acids. Reacts with trichloroacetylene to form a toxic and self combustible gas (dichloroacetylene).

CHEMICAL STABILITY

Stable under normal conditions.

POSSIBILITY OF HAZARDOUS REACTIONS

Polymerization does not occur.

CONDITIONS TO AVOID

In contact with light metals or Zinc, hydrogen gas is formed. Strong heat development when dissolved in water or alcohol.

INCOMPATIBLE MATERIALS

Attacks copper, aluminium, zinc, magnesium and their alloys, certain plastic, wood, leather and textile.

HAZARDOUS DECOMPOSITION PRODUCTS

Reacts with trichloroacetylene to form a toxic and self combustible gas (dichloroacetylene).

11. TOXICOLOGICAL INFORMATION**INFORMATION ON TOXICOLOGICAL EFFECTS****Acute toxicity**

LD50 (rabbit oral) >500 mg/kg

Effects on the skin:

Severely corrosive (rabbit). Gives serious damage and deep wounds that can be difficult to heal.

Effects on the eyes:

Severely corrosive (mouse). Causes intense pain and corrosive damage. High risk for permanent damage to the eyes.

After ingestion:

Gives corrosive damages with burning pain, possibly severe general effect and damage.

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Upon inhalation:

Inhalation of fumes or mist might cause aches, cough and difficulty in breathing.
Risk for pulmonary oedema.

Additional information:

Observe that symptoms will not appear immediately upon exposure, they will be delayed.

OTHER RELEVAND INFORMATION**CMR-effects:**

Not known

12. ECOLOGICAL INFORMATION**TOXICITY**

LC50 Fish 48h: 99 mg/l (Lepomis macrochinus)

LC50 Fish 96h: 125 mg/l (Gambusia affinis)

PERSISTENCE AND DEGRADABILITY

Dissociates in water to Na⁺ and OH⁻.

BIOACCUMULATIVE POTENTIAL

The product is not regarded as bioaccumulative.

MOBILITY IN SOIL

Non data

RESULTS OF PBT AND vPvB ASSESSMENT

Non-current

OTHER ADVERSE EFFECTS

Alkaline solution that at local discharge will affect pH-value and cause damages and death to aquatic organisms.

13. DISPOSAL CONSIDERATIONS**WASTE TREATMENT METHODS****Methods of disposal the product and waste from residues:**

Discarded product and related waste is hazardous waste. Allotting of EWC-code should be made on the basis of the source causing the waste.

Suggested EWC-codes are 06 02 04* Sodium Hydroxide or 11 01 11* Aqueous rinsing liquids containing dangerous substances

Contaminated packing material:

Rinse with plenty of water.

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Prevent spillage from entering sewage or public waters. For further advice contact the manufacturer.

14. TRANSPORT INFORMATION

UN-Classification No:

1824

UN PROPPER SHIPPING NAME

SODIUM HYDROXIDE SOLUTION, 25%

TRANSPORT HAZARD CLASS(ES)**Classification code:**

C5

PACKING GROUP

II

ENVIRONMENTAL HAZARDS**IMDG (Sea):**

Class 8 EmS F-A, S-B

Marine Pollutant: No

ADR/RID (road, rail):

Class 8

Tunnel restriction code:

(E)

IATA/DGR (air):

Class 8

ADDITIONAL INFORMATION

The product is to be transported according to dangerous goods regulations.

15. REGULATORY INFORMATION

SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS**Regulations:**

1907/2006/EC, 1271/2008/EC Table 3.1, 67/648/EEC, EWC 2000/532/EC

Other regulations:

IMDG

ADR/RID

IATA/DGR

Chemical Safety Assessment:

Has not been carried out for this product (or substances in the preparation).

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16. OTHER INFORMATION**CHANGES MADE SINCE LAST VERSION**

Information about labelling moved from section 15 to section 2, information about other hazards in section 2, as well updating the template according to CLP.

TRAINING ADVICE

The Avesta Finishing Chemicals "Handbook for the pickling and cleaning of stainless steel" and "Guidelines for Planning and Designing a Pickling Workshop".

KEY LITTERATURE REFERENCES AND SOURCES OF DATA

Standard Practice for cleaning stainless steel (ASTM-A-380), International Standard ISO 11014-1I,

LIST OF RELEVANT R- AND S-PHRASES, HAZARDS STATEMENTS AND/OR PRECAUTIONARY STATEMENTS IN SECTION 2 AND 3.**R-phrases:**

R 35: Causes severe burns

S-phrases:

S 26: In case of contact with eyes rinse immediately with plenty of water and seek medical advice.

S 28: After contact with skin, wash immediately with plenty of water.

S 36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

S 45: In case of accident or if you feel unwell, seek medical advice immediately. Show the label where possible.

S 61: Avoid release to the environment. Refer to special instructions/safety data sheet

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