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1 Identification of the substance/mixture and the company

- 1.1 Product identifier **DesoClean[®]**
- 1.2 Use of substance Alakaline cleaning of filter material and surfaces
- 1.3 Supplier TCDO Produktionsgesellschaft mbH
Carola-Blome-Str. 7
A-5020 Salzburg
Tel: +43 662 434342-0
Fax: +43 662 434342-3
- Contact Mr. Gerhard Weiss
Email: office@wapotec.at
- 1.4 Emergency phone +43 662 43 43 42-0
Office hours:
MO - TH: 8.00 - 16.00
FR: 8.00 - 12.00

2 Hazards identification

- 2.1 Hazard classification of substance or mixture

 according to Directive (EC) N° 1272/2008

Solids or alloys corrosive to metals cat. 1
Skin irritation cat. 1

H290 May be corrosive to metals.
H314 Causes serious burns to skin and eyes.

 according to Directive (EC) N° 1999/45

C (Irritant)

R 35 Causes serious burns.

- 2.2 Identification labeling

 according to Directive (EC) 1272/2008



Danger

H290 May be corrosive to metals.
H314 Causes serious burns to skin and eyes.

P280 Wear suitable protective clothing/gloves and eye/face protection at work.
P301 + P330 +

P331
 P303 + P361 + P353
 P304 + P340
 P305 + P351 + P338
 P310
 P501

AFTER INGESTION: Rinse mouth. DO NOT induce vomiting

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 Call immediately POISON INFORMATION CENTER of physician
 Dispose of content/container as problematic waste.

☪ according to Directive (EC) N° 1999/45



C

R 35 Causes serious burns.

S 1/2 Keep locked up and out of reach of children.

S 26 Rinse cautiously with water for several minutes. Consult physician.

S 35 Waste and container must be disposed of in a safe way.

S 36/37/39 Wear suitable protective clothing/gloves and eye/face protection at work.

S 45 In case of accident or discomfort, call immediately a physician (show this label if possible)

☪ Danger defining components for labeling

Sodium hydroxide (CAS: 1310-73-2)

2.3 Other hazards

Unknown.

3 Composition/information on ingredients

3.2 Mixtures

☪ Chemical characteristics

Alkaline solution of sodium hydroxide with harmless additions.

☪ Dangerous ingredients

Name	CAS # / EC # / Index #	Conc. %	Classification according to		
			Directive 67/548/EEC*	Regulation (EC) 1272/2008*	
Sodium hydroxide	1310-73-2 / 215-185-5 / 011-002-00-6	15 - 18	C; R 35	Met. Corr. 1 Skin Corr. 1A	H290 H314

* For the wording of R- rsp. H-Phrases and danger classification see section 16.



4 First-aid measures

4.1 Description of first-aid measures

Remove immediately all contaminated clothing.
Consult physician if disturbances occur.
No medication in case of unconsciousness or cramps.

 After inhalation

Move affected person immediately to fresh air. Consult physician if disturbances occur.
Upon unconsciousness transport and rest in recovery position..

 After skin contact

After skin contact, wash with plenty of water and soap.
Remove immediately all contaminated clothing.
Consult physician if disturbances occur.

 After eye contact

After eye contact, rinse eye for 10 to 15 minutes with water holding eye lids apart.
Consult physician immediately.

 After ingestion

Rinse mouth with water. If victim is conscious: give water. Do not induce vomiting. Consult physician immediately. Do not try any neutralisation!

4.2 Most important symptoms and effects, acute and delayed

No data available.

4.3 Indications for immediate medical attention or special treatment needed

Depending on patient's condition, symptoms and general condition should be evaluated by a physician.



5 Fire-fighting measures

5.1 Extinguishing media

 Suitable extinguishing media

Product itself is non flammable. Adapt extinguishing media to environment.

 Unsuitable extinguishing media for safety reasons

5.2 Unsuitable extinguishing media for safety reasons

Ambient fire may release harmful vapours.






5.3 Special protective actions for fire-fighters

Special protective equipment: Wear self-contained breathing apparatus and full protective clothing. Avoid entry of extinguishing water in surface waters or ground water.

6 Accidental release of material

- 6.1 Personal precautions, protective equipment and suitable emergency procedures.
 Restricted access to affected area during cleaning. Wear full protective clothing. Make sure enough air conditioning. Avoid contact to substance. Do not inhale vapours/aerosols.
- 6.2 Environmental precautions
 Do not empty undiluted into canalization/surface water/ground water.
- 6.3 Methods and material for retention and cleaning up.
 Bind with absorbent material (sand, diatomaceous earth, universal binders, sawdust)
 Dispose contaminated material as waste in proper container according to point 13.
- 6.4 Reference to other clauses
 Protective measures see point 8
 Disposal see point 13

7 Handling and storage

- 7.1 Precautions for safe handling
 Avoid contact with eyes and skin.
 Comply with legal protection and safety instructions.
- 7.2 Conditions for safe storage including any incompatibilities
-  Fire and explosion protection measures
 No special measures required. Do not smoke.
 -  Design of storage rooms and container
 No special requirements for storage rooms.
 Do not store with acids, metals and light metals.
 -  Material incompatibility
 Don't use aluminum-, tin or zinc container.
 -  Recommended storage temperature
 +5°C to +35°C, protect from sun
 -  VbF class
 Not applicable.
- 7.3 Specific end uses
 Alkaline cleaning of filter material and surfaces

8 Exposure controls/personal protection

8.1 Control parameters

MAK-Values acc. GKV 2007 An. I

			TMW / KZW*		Exposure period
Name	CAS#		[ppm]	[mg/m ³]	[min]
Sodium hydroxide	1310-73-2	MAK		2 E* / 4 E*	5 (Mow*)/ 8x for shift

*TMW Tagesmittelwert (daily mean value)

KZW

Kurzzeitwert
(Short term value)
als Momentanwert
(Momentary value)

E Einatembare Fraktion (respirable fraction)

Mow

8.2 Exposure controls/personal protection

General protective and hygiene measures

Keep away from food and beverage. Do not eat or drink at work, wash hands and face before breaks and end of work. Remove contaminated clothing immediately. Preventive skin protection.

Personal protection to be selected according to work place and to dangerous substances concentration and –quantity. Chemical resistance of means of protection to be clarified with their suppliers.

Respiratory protection

Necessary if vapours/aerosols.

Hand protection

Protective gloves (e.g. chloroprene, nitrile) are recommended to avoid skin contact.

Eye protection

Tightly sealed goggles

Personal protection

Work wear.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties.

Appearance	liquid
Colour	colourless
Odour	odourless
pH	appr. 14
Melting point	-6 °C
Boiling point / boiling range	n.t.

- | | |
|----------------------------|-------------------------------|
| ● Flash point | n. a. |
| ● Self-Ignition | not self-igniting. |
| ● Explosive on risk | the product is none-explosive |
| ● Vapour pressure (0 °C) | n.t. |
| ● Density at 20 °C | appr. 1,2 g/cm ³ |
| ● Water solubility at 20°C | consolute |
| ● Viscosity at 20°C | n.t. |

9.2 Further information

None



10 Stability and reactivity

10.1 Reactivity

No hazardous reaction when using according to regulations.

10.2 Chemical stability

No decomposition when using according to regulations.

10.3 Possibility of hazardous reactions

Explosion hazard with: metals, light metals: can form hydrogen (explosion hazard!)

Possible serious reactions with: acids, nitriles, alkaline earth metals in powder form, quaternary ammonium compounds, cyanides, magnesium, organic nitro compounds, organic combustible substances, phenols and oxidizing substances.

10.4 Conditions to avoid

Do not expose high temperatures to avoid decomposing..

10.5 Incompatible materials

Avoid contact with metals, light metals and acids.

10.6 Hazardous decomposition products

No decomposition when using according to regulations.



11 Toxicological information

11.1 Acute toxicity

No test made on the product itself.

● Primary irritations

After Inhalation: Mucosae burns.

After Skin contact: Burns, necrosis

After eye contact: Burns, necrosis, danger of blindness!


After ingestion: Burns in mouth, mucosae, oesophagus. Danger of perforation for stomach and oesophagus.

 Sensitisation

No sensitizing effects known.

 Cancerogenity

The product does not contain any ingredients at a concentration equal or higher than 0,1%, being listed as carcinogen at the International Agency for Cancer Research (IARC) or the American Conference for Governmental Industrial Hygienic (ACGIH).

 Further information

Classification of preparation according to CLP-Regulation (EC) 1272/2008 Annex I

12 Ecological information

12.1 Toxicity

No test made for the total alloy. Classification of preparation according to CLP-Regulation (EC) 1272/2008 Annex VI.

Biological effects:

Toxic to fish and plankton. Adverse effects by ph-deferment. Possible fish kill. Possible neutralization in sewage treatment plants.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available for the product itself.

12.5 Results of PBT- and vPvB-assessment

No data available.

12.6 Other adverse effects

Do not empty in waters/ sewage or soil.

13 Disposal considerations

13.1 Waste treatment methods

Dilute small quantities with plenty of water, dispose of big quantities according to local regulation.

 Waste key number

52402g (ÖNORM S 2100); List of waste

 Waste name

Alkaline solution, alkaline solution mixtures

 European waste catalogue

060204* (sodium- und potassium hydroxide)

Notice: EAK-waste key is source-related. This may lead to another classification. The decision is up to the enduser.

 Contaminated packaging material

Recommendation: Empty container completely and deliver to a specialized company for reconditioning, recycling or disposal.



14 Transport information

14.1 UN-Number

1824

14.2 Proper UN-shipping name

NATRIUMHYDROXIDLÖSUNG
 SODIUM HYDROXIDE SOLUTION

14.3 Transport hazard class



8

14.4 Packaging group

II

14.5 Environmental hazards

Not applicable.

14.6 Special precautions for the user

Colourless fluid. Decomposes aluminium, zinc and tin. Generates ammonia gas in contact with ammonium salts. Causes burns to skin, eye and mucosae. Serious reacting with acids.

14.7 Transport in bulk according to Annex II of MARPOL agreement 73/78 and according to IBC-Code

IBC02; EMS: F-A, S-B



15 Regulatory information

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

This safety data sheet complies with the Regulations (EC) Reach N° 1907/2006. The alloy is classified according to Regulation (EC) 1272/2008.



National regulatory:

Austria:




Labeling according to BGBl II 2000/81 ChemV 1999.

The product is classified and requires hazards identification.

-  ChemG 1996
 This product is classified hazardous according to the Austrian chemical legislation of 1996.
-  VbF - Directive about combustible liquids (BGBl 1991/240)
 This product is not considered as combustible liquid.

Germany:

-  Classification in water hazard classes according VwVwS dated 17.05.1999 Annex IV wp 1 (slightly water pollutant)

15.2 Chemical safety assessment

The mixture is not subject to material security test

16 Other information

The information provided on this SDS is correct to the best of our knowledge and information, but not to be considered as warranty or quality specification nor creates contractual relationship. The information given is designed only as a guidance for safe handling. The categorisation according to Dangerous Preparations Directive 1999/45/EC resp. regulation CLP (EC)1272/2008 is based on the classification of the single component according to Annex VI of regulation CLP (EC)1272/2008 as well as on manufacturer's data completed by hazardous material database.

Relevant R-Phrases

R 35 Causes severe burns.

Relevant H-Phrases

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

Relevant hazard classification

Met. corr. 1 Solids or alloys corrosive to metals category 1

Skin irrit. 1A Skin irritation category 1A

Edition

Number 2

Replaces Number 1 dated 12.04.2009

Modification to Directive (EC) 453/2010

Amendments: article 2, 3, 15

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Short cuts

n. t. not tested

n. a. not applicable