

## 1 Identification of the substance/mixture and the company

1.1	Product identifier	<b>HydroSan®</b>
1.2	Use of substance	flocculant and flocculation aid
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. G. Weiss Email: <a href="mailto:office@wapotec.at">office@wapotec.at</a>
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**

**Serious eye irritation cat. 2**

**Skin irritation cat. 2**

H290 May be corrosive to metals.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

 according to Directive (EC) N° 1999/45

**Xi (Irritant)**

R 36/38 Irritating to eyes and skin

2.2 Identification labeling

 according to Directive (EC) 1272/2008



**Attention**

H290 May be corrosive to metals.

H315 Causes skin irritation.

H319	Causes serious eye irritation.
P280	Wear protective gloves/ eye protection.
P302 + P352	IF ON SKIN: Wash with plenty of water and soap.
P305 + P351 + P338	IF IN EYES: Rinse continuously with water for several minutes Remove contact lenses if present and easy to do. Continue rinsing
P332 + P313	If skin irritation occurs: Get medical advice/attention
P337 + P313	If eye irritation persists: Get medical advice/attention
P362	Take off contaminated clothing and wash before reuse.

according to Directive (EC) N° 1999/45



**Xi**; Irritant

R 36/38	Irritating to eye and skin
S 2	Keep out of reach of children.
S 24/25	Avoid contact with eyes and skin.
S 26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 35	Waste and container must be disposed of in a safe way.

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 salt clays (siliceous aluminate CAS-No. 12068-56-3)

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	0,5 - 2	C; R 35	Met. Corr. 1 Skin Corr. 1A	H290 H314

\* For the wording of R- resp. 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 a physician upon eye irritation.

☉ After ingestion

Rinse mouth with water. If victim is conscious: give water. Consult physician.

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

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5.2 Special hazards arising from the substance or mixture

Fire may release following gases: CO<sub>x</sub>

5.3 Special protective actions for fire-fighters

Special protective equipment: Wear self-contained breathing apparatus and full protective clothing.



## 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. Avoid to breath dust/aerosol.

## 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

Flocculant and flocculation aid.

# 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 <sup>3</sup> ]	[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)

E Einatembare Fraktion (Respirable fraction) Mow Als Momentanwert (Momentary value)

## 8.2 Exposure controls

### General protective and hygiene measures

Follow usual precautions when dealing with chemicals. Keep away from food, drink and fodder. Do not eat or drink at work, wash hands before breaks and end of work. Avoid eye and skin contact.

### Respiratory protection

Not necessary.

### Hand protection

Protective gloves (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. 12
Melting point	-6 °C
Boiling point / boiling range	appr. 102 °C
Flammability	n. a.
Self-ignition	not self-igniting.
Danger of explosion	the product is none-explosive
Vapour pressure at 0 °C	appr. 5 mbar
Density at 20 °C	appr. 1,03 g/cm <sup>3</sup>
Water solubility at 20°C	consolute
Viscosity at 20°C	1,1 mPas

### 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

Possible reactions with: metals, light metals (can form hydrogen); acids

### 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

LD<sub>50</sub>(rat) higher than 20 ml/kg

#### Primary irritations

Skin: irritant

Eye: irritant

#### Sensitisation

No sensitizing effects known.

#### Carcerogenity

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 and to Dangerous Preparations Directive 1999/45/EC.

## 12 Ecological information

### 12.1 Toxicity

No test made for the total alloy. Classification of preparation according to Dangerous Preparations Directive 1999/45/EC or rather CLP-Regulation (EC) 1272/2008 Annex VI.

## 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 dispose of the product undiluted with ground water/ waters or canalization.  
There is no impairment expected when diluting with plenty of water.



## 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

III

## 14.5 Environmental hazards

None

## 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

IBC03; EMS: F-A, S-B




## 15 Regulatory information

## 15.1 Safety-, health-, ambient- and legislation specific instructions for substance or mixture


This safety data sheet complies with the Regulations (EC) Reach N° 1907/2006. The mixture is classified according to Dangerous Preparations Directive (EC) 1999/45 and to regulation (EC) 1272/2008 Annex I.

**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 (self assessment).  
nwh (not water hazardous)

## 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 upon manufacturer details completed by indications from hazardous material database.

### Relevant R-Phrases

R 35	Causes severe burns.
R 36/38	Irritating to eye and skin.

### Relevant H-Phrases

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation.
H319	Causes serious eye irritation.

### Relevant hazard classification

Met. corr. 1	Solids or alloys corrosive to metals category 1
Skin irrit. 1A	Skin burns category 1A
Skin irrit. 2	Skin irritation category 2
Eye irrit. 2	Serious eye irritation category 2
Issue	N° 3 Replaces Number 2 dated 25.01.2010 Modification to Directive (EC) 453/2010 Amendments: article 2, 3, 15

Written by	UmEnA GmbH
Translated by	Wapotec GmbH

Short cuts	n. t. not tested n. a. not applicable
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