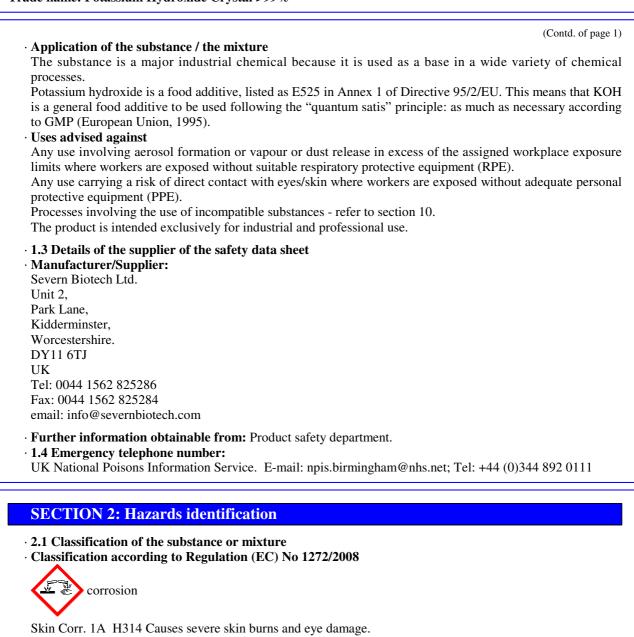
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SECTION 1: Identification of the substance/mixture and of the company/	undertaking
· 1.1 Product identifier	
• Trade name: Potassium Hydroxide Crystal >99%	
• Article number: 40-5013	
• CAS Number: 1310-58-3	
· EC number:	
215-181-3	
• Index number: 019-002-00-8	
• <b>Registration number</b> 01-2119487136-33	
· 1.2 Relevant identified uses of the substance or mixture and uses advised against	
• Product category	
PC1 Adhesives, sealants PC2 Adsorbents	
PC3 Air care products	
PC4 Anti-Freeze and de-icing products	
PC7 Base metals and alloys PC8 Biocidal products	
PC9a Coatings and paints, thinners, paint removers	
PC9b Fillers, putties, plasters, modelling clay	
PC9c Finger paints	
PC11 Explosives PC12 Fertilisers	
PC13 Fuels	
PC14 Metal surface treatment products	
PC15 Non-metal-surface treatment products	
PC16 Heat transfer fluids PC17 Hydraulic fluids	
PC18 Ink and toners	
PC19 Intermediate	
PC20 Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents	
PC21 Laboratory chemicals PC24 Lubricants, greases, release products	
PC25 Metal working fluids	
PC26 Paper and board treatment products	
PC27 Plant protection products PC28 Perfumes, fragrances	
PC29 Pharmaceuticals	
PC30 Photo-chemicals	
PC31 Polishes and wax blends	
PC32 Polymer preparations and compounds PC33 Semiconductors	
PC34 Textile dyes, and impregnating products	
PC35 Washing and cleaning products (including solvent based products)	
PC36 Water softeners PC37 Water treatment chemicals	
PC37 Water treatment chemicals PC38 Welding and soldering products, flux products	
PC39 Cosmetics, personal care products	
PC40 Extraction agents	
PC 0: Other: building and construction preparations PC 0: Other: Catalysts	
· Article category	
AC2 Machinery, mechanical appliances, electrical/electronic articles	
AC3 Electrical batteries and accumulators	
AC4 Stone, plaster, cement, glass and ceramic articles AC7 Metal articles	
AC10 Rubber articles	
AC11 Wood articles	
AC13 Plastic articles	(Contd. on page 2)
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#### Trade name: Potassium Hydroxide Crystal >99%





Acute Tox. 4 H302 Harmful if swallowed.

#### · 2.2 Label elements

- · Labelling according to Regulation (EC) No 1272/2008
- The substance is classified and labelled according to the GB CLP regulation.
- · Hazard pictograms GHS05, GHS07
- · Signal word Danger
- · Hazard statements
- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- · Precautionary statements

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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#### Trade name: Potassium Hydroxide Crystal >99%

	(Contd. of page 2)
P310	Immediately call a POISON CENTER/doctor.
P321	Specific treatment (see on this label).
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

#### · 2.3 Other hazards

· Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- · vPvB: Not applicable.

#### **SECTION 3: Composition/information on ingredients**

- · 3.1 Chemical characterisation: Substances
- · CAS No. Description
- 1310-58-3 Potassium hydroxide
- · Identification number(s)
- EC number: 215-181-3
- · Index number: 019-002-00-8

#### **SECTION 4: First aid measures**

• 4.1 Description of first aid measures
· General information:
Immediately remove any clothing soiled by the product.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours
after the accident.
· After inhalation:
DON'T DELAY!
Supply fresh air; consult doctor in case of complaints.
In case of unconsciousness place patient stably in side position for transportation.
· After skin contact:
DO NOT DELAY!
Immediately rinse with water.
If skin irritation continues, consult a doctor.
· After eye contact:
DO NOT DELAY!
Check for and remove any contact lenses.
Rinse opened eye for several minutes under running water. Then consult a doctor.
· After swallowing:
DON'T DELAY!
Wash mouth out with water
Do not induce vomiting; call for medical help immediately.
Drink plenty of water and provide fresh air. Call for a doctor immediately.
If vomiting occurs spontaneously, keep head below hips to prevent aspiration.
· Information for doctor:
Corrosive. The substance is very corrosive to the eyes, the skin and the respiratory tract. Corrosive on
ingestion. Inhalation of an aerosol of a solution of this substance may cause lung oedema.
· 4.2 Most important symptoms and effects, both acute and delayed
No further relevant information available.
· 4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available.

### **SECTION 5: Firefighting measures**

#### · 5.1 Extinguishing media

• Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

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- $\cdot$  For safety reasons unsuitable extinguishing agents: Water
- $\cdot$  5.2 Special hazards arising from the substance or mixture

Contact with moisture or water may generate sufficient heat to ignite combustible materials.

#### SPECIFIC HAZARDS

- Corrosive in solution.
- Not combustible.
- Reacts violently with water.
- Gives off hydrogen by reaction with metals.
- $\cdot$  5.3 Advice for firefighters
- · Protective equipment:
- Wear self-contained respiratory protective device.
- Wear fully protective suit.

Do not inhale explosion gases or combustion gases.

· Additional information Cool endangered receptacles with water spray.

#### **SECTION 6: Accidental release measures**

- · 6.1 Personal precautions, protective equipment and emergency procedures
- Wear protective equipment. Keep unprotected persons away.
- · 6.2 Environmental precautions:
- Do not allow to penetrate the ground/soil.
- Do not allow product to reach sewage system or any water course in the undiluted form.

#### · 6.3 Methods and material for containment and cleaning up:

Ensure adequate ventilation.

Pick up mechanically.

Send for recovery or disposal in suitable receptacles.

- 1. Personal protection / precautions
- Isolate the area.
- Evacuate personnel to safe areas
- Approach from upwind.
- Ventilate the area.
- Keep away from incompatible products
- Wear chemical resistant personal protective equipment
- Prevent further leakage or spillage if safe to do so.
- Abundant running water should be available for emergency use.
- Refer to protective measures listed in sections handling and storage and exposure controls/personal protection.
- 2. Environmental precautions
- Should not be released into the environment.
- Do not flush into surface water or sanitary sewer system.
- Notify environmental personnel
- 3. Methods for cleaning up
- Scoop substance into closing containers.
- Carefully collect spill / leftovers.
- Equipment must be corrosion resistant.
- Flush contaminated areas with large amounts of water and direct rinsings to chemical sewer or collect for treatment.

#### · 6.4 Reference to other sections

- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

#### **SECTION 7: Handling and storage**

#### · 7.1 Precautions for safe handling

Store in cool, dry place in tightly closed receptacles.

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(Contd. of page 4) Ensure good ventilation/exhaustion at the workplace. Avoid direct contact (skin/eye contact, ingestion and/or inhalation of fume/mist/dust) with the product in the undiluted form. Warn relevant workers of the dangers of working with this product and provide suitable and sufficient training to ensure safe working. The product is corrosive. Direct contact (skin, eyes and by inhalation) and ingestion must be prevented. A safe system of work, taking into account the product properties and the operation taking place, must be formulated (by a competent, trained and suitably experineced person) prior to work taking place and the system must be followed to ensure the safety of workers and other who may be affected. Futher precautions for safe handling - Observe strict hygiene - avoid eye and skin contact. - Avoid splashing of material. - Safety showers should be readily available in handling and storage areas. - Eye wash fountains should be located in the work areas and should be immediately accessible for emergency use. - Remove contaminated clothing immediately. - When diluting, always add the product to water. Never add water to the product. - Keep away from incompatible products. When making an aqueous solution, add the substance to the water gradually with constant stirring and at a rate which will prevent overheating; prevent irritant fume and vapour evolving from the solution from entering the breathing zone of workers. · Information about fire - and explosion protection: No special measures required. · 7.2 Conditions for safe storage, including any incompatibilities · Storage: · Requirements to be met by storerooms and receptacles: Prevent any seepage into the ground. Packaging material - Suitable: stainless steel, synthetic material / polyethylene, glass - To avoid: lead, aluminium, copper, tin, zinc, bronze · Information about storage in one common storage facility: Do not store together with acids. Store away from foodstuffs. Store away from metals. Store away from flammable substances. Store away from water. Further information about storage conditions: Store in a bunded area. Store in cool, dry conditions in well sealed receptacles. This product is hygroscopic. Protect from humidity and water. Store in a well-ventilated area. Store at ambient temperature. Keep container tightly closed. KOH in contact with water or moisture may result in enough heat to ignite combustibles. Keep away from : heat sources, highly flammable materials, incompatible products. • 7.3 Specific end use(s) No further relevant information available. **SECTION 8: Exposure controls/personal protection** · 8.1 Control parameters

• Additional information about design of technical facilities: No further data; see item 7.

· Ingredients with limit values that require monitoring at the workplace:

1310-58-3 Potassium hydroxide

WEL Short-term value: 2 mg/m<sup>3</sup>

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(Contd. of page 5)
DNELS
WORKERS
Long-term exposure - local effects Inhalation DN(M)EL
- DNEL (Derived No Effect Level): 1 mg/m <sup>3</sup>
- DIVEE (Derived No Effect Lever). Thighi
GENERAL POPULATION
Long-term exposure - local effects
Inhalation DN(M)EL
- DNEL (Derived No Effect Level): 1 mg/m <sup>3</sup>
• Additional information: The lists valid during the making were used as basis.
• 8.2 Exposure controls
Personal protective equipment:     Conservation and hydronia measures:
• General protective and hygienic measures: Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Do not eat, drink, smoke or sniff while working.
Storing food in the working area is prohibited.
Do not inhale dust / smoke / mist.
A safe system of work must be formulated and followed to ensure safe working with this product. Relevant
workers must receive suitable and sufficient training and supervision.
Take note of assigned Workplace Exposure Limits.
Eye wash bottles or eye wash stations in compliance with applicable standards must be present within easy
reach of the work station.
· Respiratory protection:
KOH is a deliquescent solid, the potential for dust formation is low. Nevertheless, direct manipulation of dry
KOH should be done with an approved respirator (like European Standard EN-149), when necessary.
Recommended Filter type: P2 • <b>Protection of hands:</b>
Protective gloves
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
Hand protection:
- Impervious gloves
- Suitable material: PVC, Neoprene, Natural rubber, Butyl rubber
- Unsuitable material: Leather
$\cdot$ Material of gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
• Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be
observed.
· Eye protection:
Tightly sealed goggles
rightly sealed goggles
Face shield if risk on splashes.
Body protection:
Impervious protective clothing

Impervious protective clothing

- Skin and body protection:
- Corrosionproof clothing.Suitable material: PVC, Neoprene, Natural rubber, Butyl rubber

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(Contd. of page 6)

9.1 Information on basic physical and chemical properties General Information		
Form:	Solid	
	Pellets or flakes depending on specification.	
Colour:	White	
Odour:	Odourless	
pH-value (5.5 g/l) at 25 °C:	13.5	
Change in condition		
Melting point/freezing point:	406 °C	
Initial boiling point and boiling range: 1327 °C		
Flash point:	Not applicable.	
Flammability (solid, gas):	Product is not flammable.	
Explosive properties:	Product does not present an explosion hazard.	
Vapour pressure:	Not applicable.	
Density at 20 °C:	2.04 g/cm <sup>3</sup>	
Solubility in / Miscibility with		
water at 20 °C:	>10000 g/l	
Partition coefficient: n-octanol/water:	Not determined.	
9.2 Other information	NOTE: The physical data presented above are typical values and should not be construed as a specification.	

#### **SECTION 10: Stability and reactivity**

• 10.1 Reactivity No further relevant information available.

10.2 Chemical stability

· Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

· 10.3 Possibility of hazardous reactions

The substance is a strong base, it reacts violently with acid and is corrosive in moist air to metals such as zinc, aluminium, tin and lead forming a combustible/explosive gas (hydrogen).

Reacts with ammonium salts to produce ammonia and causing fire hazard. Attacks some forms of plastics, rubber or coatings.

Rapidly absorbs carbon dioxide and water from air.

Contact with moisture or water will generate heat.

Risk of explosion in contact with: fluorine; aluminium hexachloroplatinate-(2)/heat; bromoform + crown ether; but-2-ene-1,4-diol (heat); calcium powder; calcium carbide/chlorine; chlorine dioxide; cyanogen azide (rarely); 1,2-dichloroethene; magnesium; sodium azide + benzoyl chloride; nitrobenzene; nitroethane; nitromethane; nitroparaffines; N-nitrosomethylurea; phosphorus (rarely); nitrogen trichloride; tetrachloroethane/ potassium hydroxide solid/heat; tetrahydrofurane (peroxide containing,rarely); 2,4,6-trinitrotoluene; zinc ; tin

The substance can react dangerously with:acids; water; hydrogen peroxide; acetonitrile; acrolein; aldehydes; lower alcohols; aluminium -> hydrogen; aluminium carbide (rarely); ammonium salts/ammonia; chloroform/ methanol; cyclopentadiene; acetic acid; germanium; halogenated hydrocarbons; iodine pentafluoride; potassium peroxodisulphate; cresols; maleic anhydride; nitrophenol; phosphorus trioxide; hydrogen sulphide; tetrafluoropropanol; trichloroethene; vinyl acetate; sugars (reducing)

• 10.4 Conditions to avoid No further relevant information available.

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#### Trade name: Potassium Hydroxide Crystal >99%

#### · 10.5 Incompatible materials:

Finely powdered metals.

Strong acids.

Substances specifically listed in section 10.3 as incompatible. • **10.6 Hazardous decomposition products:** Potassium oxide

### **SECTION 11: Toxicological information**

- · 11.1 Information on toxicological effects
- · Acute toxicity
- Harmful if swallowed.

#### $\cdot$ LD/LC50 values relevant for classification:

- Oral LD50 333 mg/kg (rat)
- Primary irritant effect:
- $\cdot$  Skin corrosion/irritation
- Causes severe skin burns and eye damage.
- $\cdot$  Serious eye damage/irritation
- Causes severe skin burns and eye damage.
- $\cdot$  Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- $\cdot$  Other information (about experimental toxicology):

ROUTES OF EXPOSURE: The substance can be absorbed into the body by inhalation of its soltion aerosol and by ingestion.

INHALATION RISK: Evaporation at 20°C is negligible; Dust formation is unlikely because of the hygroscopic properties. Furthermore KOH has a negligible vapour pressure and is rapidly neutralised in air by carbon dioxide and therefore dust and vapour exposure are not expected.

· Subacute to chronic toxicity: Repeated or prolonged contact with skin may cause dermatitis.

· Additional toxicological information:

Corrosive. The substance is very corrosive to the eyes, the skin and the respiratory tract. Corrosive on ingestion.

Inhalation of an aerosol of a solution of this substance may cause lung oedema. The symptoms of lung oedema often do not become manifest until a few hours have passed and they are aggravated by physical effort. Rest and medical observation are therefore essential.

KOH is a corrosive substance at concentrations of about 2% and higher. Between about 0.5% and 2.0%, it is irritating. Case reports on human accidents or intentional exposure confirm that the risk posed by KOH for human health originates from its corrosive properties.

- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

#### **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential Product is not expected to bioaccumulate.
- 12.4 Mobility in soil No further relevant information available.

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- · Ecotoxical effects:
- Other information:

The hazard of KOH for the environment is caused by the hydroxyl ion (pH effect). For this reason the effect of KOH on the organisms depends on the buffer capacity of the aquatic or terrestrial ecosystem.

#### · Additional ecological information:

· General notes:

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Must not reach sewage water or drainage ditch undiluted or unneutralised.

Emissions will lead to a local increase in pH in the aquatic environment.

#### · 12.5 Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

• 12.6 Other adverse effects No further relevant information available.

#### **SECTION 13: Disposal considerations**

· 13.1 Waste treatment methods

#### · Recommendation

- Recommended Hierarchy of Controls:
- Minimise waste;
- Reuse if not contaminated;
- Recycle, if possible; or
- Safe disposal (if all else fails).

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Contact waste processors for recycling information.

Used, degraded or contaminated product may be classified as hazardous waste. Anyone classifying hazardous waste and determining its fate must be qualified in accordance with state and international legislation.

- · Uncleaned packaging:
- · Recommendation:
- Container remains hazardous when empty. Continue to observe all precautions.

Containers, even those that are "empty," may contain residues that can develop hazardous gases and vapours upon heating. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers. Disposal must be made according to official regulations.

· Recommended cleansing agents: Water, if necessary together with cleansing agents.

14.1 UN-Number	
ADR, IMDG, IATA	1813
14.2 UN proper shipping name	
ADR	1813 POTASSIUM HYDROXIDE, SOLID
IMDG, IATA	POTASSIUM HYDROXIDE, SOLID
14.3 Transport hazard class(es)	
ADR, IMDG, IATA	
Class	8 Corrosive substances.
Label	8

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	(Contd. of page
· 14.4 Packing group	
· ADR, IMDG, IATA	II
· 14.5 Environmental hazards:	Not applicable.
· 14.6 Special precautions for user	Warning: Corrosive substances.
· Hazard identification number (Kemler code):	80
· EMS Number:	F-A,S-B
• 14.7 Transport in bulk according to Annex II o	f
Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	1kg
· Transport category	2
· Tunnel restriction code	Ε
· UN "Model Regulation":	UN1813, POTASSIUM HYDROXIDE, SOLID, 8, II

#### **SECTION 15: Regulatory information**

• 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has been carried out.

#### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Product safety department.

· Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent

- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Acute Tox. 4: Acute toxicity Category 4 Skin Corr. 1A: Skin corrosion/irritation – Category 1A

#### Annex: Exposure scenario

- · Sector of Use SU5 Manufacture of textiles, leather, fur
- · Product category
- PC1 Adhesives, sealants
- PC2 Adsorbents
- PC3 Air care products
- PC4 Anti-Freeze and de-icing products
- PC7 Base metals and alloys
- PC8 Biocidal products
- PC9a Coatings and paints, thinners, paint removers
- PC9b Fillers, putties, plasters, modelling clay
- PC9c Finger paints

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PC11 Explosives	
PC12 Fertilisers	
PC13 Fuels	
PC14 Metal surface treatment products	
PC15 Non-metal-surface treatment products	
PC16 Heat transfer fluids	
PC17 Hydraulic fluids	
PC18 Ink and toners	
PC19 Intermediate	
PC20 Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents	
PC21 Laboratory chemicals	
PC24 Lubricants, greases, release products	
PC25 Metal working fluids	
PC26 Paper and board treatment products	
PC27 Plant protection products	
PC28 Perfumes, fragrances PC29 Pharmaceuticals	
PC30 Photo-chemicals	
PC31 Polishes and wax blends	
PC32 Polymer preparations and compounds	
PC33 Semiconductors	
PC34 Textile dyes, and impregnating products	
PC35 Washing and cleaning products (including solvent based products)	
PC36 Water softeners	
PC37 Water treatment chemicals	
PC38 Welding and soldering products, flux products	
PC39 Cosmetics, personal care products	
PC40 Extraction agents	
PC 0: Other: building and construction preparations	
PC 0: Other: Catalysts	
· Article category	
AC2 Machinery, mechanical appliances, electrical/electronic articles	
AC3 Electrical batteries and accumulators	
AC4 Stone, plaster, cement, glass and ceramic articles	
AC7 Metal articles	
AC10 Rubber articles	
AC11 Wood articles	
AC13 Plastic articles	
<ul> <li>Description of the activities / processes covered in the Exposure Scenario</li> </ul>	
See section 1 of the annex to the Safety Data Sheet.	
· Conditions of use	
· Duration and frequency 5 workdays/week.	
· Physical parameters	
· Physical state Solid	
· Concentration of the substance in the mixture Raw material.	
<ul> <li>Used amount per time or activity &lt;1 tons per day</li> </ul>	
· Other operational conditions Observe the general safety regulations when handling chemica	als.
· Other operational conditions affecting environmental exposure	
Observe section 6 of the Safety Data Sheet (Accidental release measures).	
Store in a bunded area.	
· Other operational conditions affecting worker exposure	
Avoid contact with eyes.	
Avoid contact with the skin.	
Do not breathe gas/fume/vapour/aerosol.	
Do not breathe dust.	
Keep away from food, drink and animal feedingstuffs.	
Keep container tightly closed and dry.	
Keep locked up.	
Ensure adequate ventilation, especially in closed rooms.	
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### Trade name: Potassium Hydroxide Crystal >99%

A usid direct contact with the chemical landwat languages by experientianal macrours	(Contd. of page 11
Avoid direct contact with the chemical /product / preparation by organisational measures.	
Observe first aid measures (for treatment of exposure due to accidents).	•• •
• Other operational conditions affecting consumer exposure Keep out of the reach of ch	
· Other operational conditions affecting consumer exposure during the use of the prod	luct Not applicable.
· Risk management measures	
· Worker protection	
· Organisational protective measures	
Provide Internal Plant Instruction.	
Employment restrictions concerning juveniles must be observed.	
Handling procedures must be well documented.	
Ensure that activities are executed by specialists or authorised personnel only.	
Ensure that the working area is organised, well lit and ventilated, with enough space to har	ndle spilled product.
Consider section 4 of the Safety Data Sheet (First aid measures).	1 1
Ensure good ventilation. This can be achieved by using a local exhaustion or general exh	aust system. If these
measures are insufficient to keep the solvent vapour concentration below the work	
adequate respiratory protective device.	fuer mint, wear a
Make sure that the workplace is well-lit and organised.	
Washing facilities / Water for cleaning eyes and skin should be available.	
Provide emergency eye wash station and mark its location clearly.	
Deploy only trained chemical workers.	
No special measures required.	
· Technical protective measures	
Ensure that suitable extractors are available on processing machines	
Store in cool, dry place in tightly closed receptacles.	
Ensure good ventilation/exhaustion at the workplace.	
Open and handle receptacle with care.	
Any unavoidable deposit of dust must be regularly removed.	
Use only in well ventilated areas.	
Washing facilities / Water for cleaning eyes and skin should be available.	
· Personal protective measures	
Do not inhale dust / smoke / mist.	
Avoid contact with the skin.	
Avoid contact with the eyes.	
Tightly sealed goggles	
Keep away from foodstuffs, beverages and feed.	
Immediately remove all soiled and contaminated clothing	
Wash hands before breaks and at the end of work.	
Do not eat or drink while working.	
e	
Ensure that washing facilities are available at the work place.	
Storing food in the working area is prohibited.	
Use suitable respiratory protective device in case of insufficient ventilation.	
Alkaline resistant protective clothing	
Protective gloves	
The glove material has to be impermeable and resistant to the product/ the substance/ the product/ the product/ the substance/ the product/ the product	
Selection of the glove material on consideration of the penetration times, rates of diffusion	and the degradation
Hand protection:	
- Impervious gloves	
- Suitable material: PVC, Neoprene, Natural rubber, Butyl rubber	
- Unsuitable material: Leather	
• Measures for consumer protection Ensure adequate labelling.	
· Environmental protection measures	
Avoid release to the environment. Obtain special instructions / refer to Safety Data Sheet.	
• Water	
Generally, prior to the introduction of wastewater into wastewater treatment plants a neutro	alisation is required
• Soil Prevent contamination of soil.	ansanon is required.
• Disposal measures	
Ensure that waste is collected and contained.	1
Used, degraded or contaminated product may be classified as hazardous waste. Anyone c waste and determining its fate must be qualified in accordance with state and international	

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(Contd. Must not be disposed of with household waste. Do not allow to reach sewage system.

Disposal must be made according to official regulations.

#### · Disposal procedures

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Containers, even those that are "empty," may contain residues that can develop hazardous vapours upon heating. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers.

- Waste type Partially emptied and uncleaned packaging
- · Exposure estimation

• Consumer Not relevant for this Exposure Scenario.

 $\cdot$  Guidance for downstream users No further relevant information available.

(Contd. of page 12)

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