

according to Regulation (EC) No. 1907/2006

Revision Date 31.07.2017

Version 18.5

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Catalogue No. 106469

Product name Sodium hydroxide pellets for analysis (max. 0.02% K) EMSURE®

ACS, Reag. Ph Eur, ISO

REACH Registration Number 01-2119457892-27-XXXX

CAS-No. 1310-73-2

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

Identified uses Reagent for analysis, Chemical production

In compliance with the conditions described in the annex to this safety

data sheet.

1.3 Details of the supplier of the safety data sheet

Company Merck KGaA * 64271 Darmstadt * Germany * Phone:+49 6151 72-0

Responsible Department LS-QHC * e-mail: prodsafe@merckgroup.com

1.4 Emergency telephone

number

Please contact the regional company representation in your country.

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

according to Regulation (EC) No. 1907/2006

Catalogue No. 106469

Product name Sodium hydroxide pellets for analysis (max. 0.02% K) EMSURE® ACS,Reag.

Ph Eur, ISO

Corrosive to metals, Category 1, H290

Skin corrosion, Category 1A, H314

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word

Danger

Hazard statements

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

Precautionary statements

Prevention

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P308 + P310 IF exposed or concerned: immediately call a POISON CENTER or doctor/ physician.

Reduced labelling (≤125 ml)

Hazard pictograms



Signal word

according to Regulation (EC) No. 1907/2006

Catalogue No. 106469

Product name Sodium hydroxide pellets for analysis (max. 0.02% K) EMSURE® ACS, Reag.

Ph Eur, ISO

Danger

Hazard statements

H314 Causes severe skin burns and eye damage.

Precautionary statements

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

P308 + P310 IF exposed or concerned: immediately call a POISON CENTER or doctor/ physician.

Index-No. 011-002-00-6

2.3 Other hazards

None known.

SECTION 3. Composition/information on ingredients

3.1 Substance

Formula NaOH HNaO (Hill)

Index-No. 011-002-00-6

EC-No. 215-185-5

Molar mass 40,00 g/mol

Hazardous components (REGULATION (EC) No 1272/2008)

Chemical name (Concentration)

CAS-No. Registration number Classification

sodium hydroxide (<= 100 %)

PBT/vPvB: Not applicable for inorganic substances

1310-73-2 01-2119457892-27-

XXXX Corrosive to metals, Category 1, H290

Skin corrosion, Category 1A, H314

For the full text of the H-Statements mentioned in this Section, see Section 16.

according to Regulation (EC) No. 1907/2006

Catalogue No. 106469

Product name Sodium hydroxide pellets for analysis (max. 0.02% K) EMSURE® ACS,Reag.

Ph Eur, ISO

3.2 Mixture

Not applicable

SECTION 4. First aid measures

4.1 Description of first aid measures

General advice

First aider needs to protect himself.

After inhalation: fresh air. Call in physician.

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician immediately.

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralise.

4.2 Most important symptoms and effects, both acute and delayed

Risk of blindness!

Irritation and corrosion, Cough, Shortness of breath, collapse, death

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

according to Regulation (EC) No. 1907/2006

Catalogue No. 106469

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Ph Eur, ISO

5.2 Special hazards arising from the substance or mixture

Not combustible.

Ambient fire may liberate hazardous vapours.

5.3 Advice for firefighters

Special protective equipment for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Further information

Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

Protective equipment see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections

Indications about waste treatment see section 13.

according to Regulation (EC) No. 1907/2006

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SECTION 7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Observe label precautions.

Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

No aluminium, tin, or zinc containers.

No metal containers.

Storage conditions

Tightly closed. Dry.

Recommended storage temperature see product label.

7.3 Specific end use(s)

See exposure scenario in the Annex to this MSDS.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

according to Regulation (EC) No. 1907/2006

Catalogue No. 106469

Product name Sodium hydroxide pellets for analysis (max. 0.02% K) EMSURE® ACS,Reag.

Ph Eur, ISO

Derived No Effect Level (DNEL)

Worker DNEL, longterm Local effects inhalation 1 mg/m³

Consumer DNEL, longterm Local effects inhalation 1 mg/m³

Predicted No Effect Concentration (PNEC)

PNEC no data available

8.2 Exposure controls

Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

Individual protection measures

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Eye/face protection

Tightly fitting safety goggles

Hand protection

full contact:

Glove material: Nitrile rubber Glove thickness: 0,11 mm

Break through time: > 480 min

splash contact:

Glove material: Nitrile rubber
Glove thickness: 0,11 mm
Break through time: > 480 min

according to Regulation (EC) No. 1907/2006

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The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 741 Dermatril® L (full contact), KCL 741 Dermatril® L (splash contact).

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.

This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Other protective equipment protective clothing

Respiratory protection

required when dusts are generated.

Recommended Filter type: Filter P 2 (acc. to DIN 3181) for solid and liquid particles of harmful substances

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Environmental exposure controls

Do not let product enter drains.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form solid

Colour white

Odour odourless

Odour Threshold Not applicable

according to Regulation (EC) No. 1907/2006

Catalogue No.	106469
Product name	Sodium hydroxide pellets for analysis (max. 0.02% K) EMSURE® ACS,Reag.
	Ph Eur,ISO
рН	ca. > 14
	at 100 g/l

Melting point/range 319 - 322 °C

Boiling point/boiling range 1.390 °C

at 1.013 hPa

20 °C

Flash point Not applicable

Evaporation rate No information available.

Flammability (solid, gas) The product is not flammable.

Lower explosion limit Not applicable

Upper explosion limit Not applicable

Vapour pressure at 20 °C

Not applicable

Relative vapour density No information available.

Density 2,13 g/cm3

at 20 °C

Relative density No information available.

Water solubility 1.090 g/l

at 20 °C

Partition coefficient: n-

No information available.

octanol/water

according to Regulation (EC) No. 1907/2006

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Product name Sodium hydroxide pellets for analysis (max. 0.02% K) EMSURE® ACS, Reag.

Ph Eur, ISO

Auto-ignition temperature No information available.

Decomposition temperature No information available.

Viscosity, dynamic No information available.

Explosive properties Not classified as explosive.

Oxidizing properties none

9.2 Other data

Ignition temperature Not applicable

Corrosion May be corrosive to metals.

SECTION 10. Stability and reactivity

10.1 Reactivity

See section 10.3

10.2 Chemical stability

hygroscopic

10.3 Possibility of hazardous reactions

Violent reactions possible with:

Acetone, Chlorine, Ethylene oxide, Fluorine, Hydrogen halides, Hydrazine hydrate, hydroxylamine, Acid anhydrides, Acrolein, Acid chlorides, Acids, sulphuric acid, Chloroform, Water, hydrogen peroxide, anhydrides, EPICHLOROHYDRIN, phosphides, halogen-halogen compounds, trichloroethene, ALLYL ALCOHOL

can decompose violently in contact with:

Organic Substances, hydrogen sulphide

Risk of ignition or formation of inflammable gases or vapours with:

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Ph Eur, ISO

powdered aluminium, Ammonium salts, persulfates, Sodium borohydride, phosphorus, Oxides of phosphorus, Halogenated hydrocarbon, Light metals, Metals

Risk of explosion/exothermic reaction with:

Bromine, Calcium, in powder form, furfuryl alcohol, Nitromethane, Peroxides, organic nitro compounds, Nitriles, Acrylic monomers, SILVER NITRATE

Chloroform, with, Acetone

Nitrobenzene, with, Methanol

Nitrobenzene, with, salts

magnesium, Zinc, and, Tin, (in the presence of atmospheric oxygen and/or moisture)

10.4 Conditions to avoid

Moisture.

10.5 Incompatible materials

Aluminium, brass, Metals, metal alloys, Zinc, Tin

10.6 Hazardous decomposition products

in the event of fire: See section 5.

SECTION 11. Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

Symptoms: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.

Acute inhalation toxicity

Symptoms: burns of mucous membranes, Cough, Shortness of breath, Possible damages:, damage of respiratory tract

Acute dermal toxicity

This information is not available.

according to Regulation (EC) No. 1907/2006

Catalogue No. 106469

Product name Sodium hydroxide pellets for analysis (max. 0.02% K) EMSURE® ACS,Reag.

Ph Eur, ISO

Skin irritation

Rabbit

Result: Causes burns.

(External MSDS)

Causes severe burns.

Eve irritation

Rabbit

Result: Irreversible effects on the eye

(ECHA)

Causes serious eye damage.

Risk of blindness!

Sensitisation

Patch test: human Result: negative

(ECHA)

Germ cell mutagenicity

Genotoxicity in vitro

Mutagenicity (mammal cell test): micronucleus.

Result: negative

(Lit.)

Ames test

Result: negative

(IUCLID)

Carcinogenicity

This information is not available.

Reproductive toxicity

This information is not available.

according to Regulation (EC) No. 1907/2006

Catalogue No. 106469

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Ph Eur, ISO

Teratogenicity

This information is not available.

Specific target organ toxicity - single exposure

This information is not available.

Specific target organ toxicity - repeated exposure

This information is not available.

Aspiration hazard

This information is not available.

11.2 Further information

Systemic effects:

collapse, death

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12. Ecological information

12.1 Toxicity

Toxicity to fish

LC50 Gambusia affinis (Mosquito fish): 125 mg/l; 96 h

(External MSDS)

Toxicity to daphnia and other aquatic invertebrates

EC50 Ceriodaphnia (water flea): 40,4 mg/l; 48 h

(ECHA)

Toxicity to bacteria

EC50 Photobacterium phosphoreum: 22 mg/l; 15 min

(External MSDS)

12.2 Persistence and degradability

Biodegradability

The methods for determining the biological degradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

according to Regulation (EC) No. 1907/2006

Catalogue No. 106469

Product name Sodium hydroxide pellets for analysis (max. 0.02% K) EMSURE® ACS, Reag.

Ph Eur, ISO

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

PBT/vPvB: Not applicable for inorganic substances

12.6 Other adverse effects

Additional ecological information

Harmful effect due to pH shift.

Forms corrosive mixtures with water even if diluted.

Neutralisation possible in waste water treatment plants.

Discharge into the environment must be avoided.

SECTION 13. Disposal considerations

Waste treatment methods

See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

SECTION 14. Transport information

Land transport (ADR/RID)

14.1 UN number UN 1823

14.2 Proper shipping name SODIUM HYDROXIDE, SOLID

14.3 Class 8

14.4 Packing group

14.5 Environmentally hazardous ---

14.6 Special precautions for yes

user

Tunnel restriction code E

Inland waterway transport (ADN)

Not relevant

Air transport (IATA)

according to Regulation (EC) No. 1907/2006

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Ph Eur, ISO

14.1 UN number UN 1823

14.2 Proper shipping name SODIUM HYDROXIDE, SOLID

14.3 Class 8

14.4 Packing group

14.5 Environmentally hazardous --

14.6 Special precautions for no

user

Sea transport (IMDG)

14.1 UN number UN 1823

14.2 Proper shipping name SODIUM HYDROXIDE, SOLID

14.3 Class 8

14.4 Packing group

14.5 Environmentally hazardous --

14.6 Special precautions for yes

user

EmS F-A S-B

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

Not relevant

SECTION 15. Regulatory information

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

EU regulations

Major Accident Hazard SEVESO III
Legislation Not applicable

Occupational restrictions Take note of Dir 94/33/EC on the protection of young people at

work.

Regulation (EC) No 1005/2009 on substances that not regulated

deplete the ozone layer

according to Regulation (EC) No. 1907/2006

Catalogue No. 106469

Product name Sodium hydroxide pellets for analysis (max. 0.02% K) EMSURE® ACS,Reag.

Ph Eur, ISO

Regulation (EC) No 850/2004 of the European

not regulated

Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending

Directive 79/117/EEC

Substances of very high concern (SVHC)

This product does not contain substances

of very high concern according to

Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of ≥ 0.1 % (w/w).

National legislation

Storage class 8B

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

SECTION 16. Other information

Full text of H-Statements referred to under sections 2 and 3.

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

Training advice

Provide adequate information, instruction and training for operators.

Labelling

Hazard pictograms



Signal word

according to Regulation (EC) No. 1907/2006

Catalogue No. 106469

Product name Sodium hydroxide pellets for analysis (max. 0.02% K) EMSURE® ACS,Reag.

Ph Eur, ISO

Danger

Hazard statements

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

Precautionary statements

Prevention

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P308 + P310 IF exposed or concerned: immediately call a POISON CENTER or doctor/ physician.

Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at www.wikipedia.org.

Regional representation

This information is given on the authorised Safety Data Sheet for your country.

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.

according to Regulation (EC) No. 1907/2006

Catalogue No. 106469

Product name Sodium hydroxide pellets for analysis (max. 0.02% K) EMSURE® ACS, Reag.

Ph Eur, ISO

EXPOSURE SCENARIO 1 (Industrial use)

1. Industrial use Reagent for analysis, Chemical production)

Sectors of end-use

SU 3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU9 Manufacture of fine chemicals

SU 10 Formulation [mixing] of preparations and/ or re-packaging (excluding alloys)

Chemical product category

PC19 Intermediate

PC21 Laboratory chemicals

Process categories

PROC9

PROC10

PROC1	Use in closed process, no likelihood of exposure
PROC2	Use in closed, continuous process with occasional controlled exposure
PROC3	Use in closed batch process (synthesis or formulation)
PROC4	Use in batch and other process (synthesis) where opportunity for exposure arises
PROC5	Mixing or blending in batch processes for formulation of preparations and articles
	(multistage and/ or significant contact)
PROC8a	Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large
	containers at non-dedicated facilities

PROC8b Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities

Transfer of authorized as assessment in the small containers (dedicated filling line including

Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

Roller application or brushing

PROC14 Production of preparations or articles by tabletting, compression, extrusion, pelletisation

PROC15 Use as laboratory reagent

Environmental Release Categories

ERC1	Manufacture of substances
ERC2	Formulation of preparations
ERC4	Industrial use of processing aids in processes and products, not becoming part of articles

according to Regulation (EC) No. 1907/2006

Catalogue No. 106469

Product name Sodium hydroxide pellets for analysis (max. 0.02% K) EMSURE® ACS, Reag.

Ph Eur, ISO

ERC6a Industrial use resulting in manufacture of another substance (use of intermediates)

ERC6b Industrial use of reactive processing aids

2. Contributing scenarios: Operational conditions and risk management measures

2.1 Contributing scenario controlling environmental exposure for: ERC1, ERC2, ERC4, ERC6a, ERC6b

Technical conditions and measures / Organizational measures

Water Solutions with high pH-value must be neutralized before

discharge.

Remarks Do not allow uncontrolled discharge of product into the

environment.

2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC10, PROC14, PROC15

Product characteristics

Concentration of the Substance in Covers the percentage of the substance in the product up to

Mixture/Article 100 %.

Physical Form (at time of use) Solid, low dustiness

Frequency and duration of use

Frequency of use 8 hours/day

Other operational conditions affecting workers exposure

Outdoor / Indoor Indoor without local exhaust ventilation (LEV)

Organisational measures to prevent /limit releases, dispersion and exposure

Covers daily exposures up to 8 hours.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves (tested to EN374), coverall and eye protection.

3. Exposure estimation and reference to its source

according to Regulation (EC) No. 1907/2006

Catalogue No. 106469

Product name Sodium hydroxide pellets for analysis (max. 0.02% K) EMSURE® ACS, Reag.

Ph Eur, ISO

Workers

CS	Use descriptor	Exposure duration, route, effect	RCR	Exposure Assessment Method
2.2	PROC1	longterm, inhalative, local	0,01	ECETOC TRA 3
2.2	PROC2	longterm, inhalative, local	0,01	ECETOC TRA 3
2.2	PROC3	longterm, inhalative, local	0,10	ECETOC TRA 3
2.2	PROC4	longterm, inhalative, local	0,50	ECETOC TRA 3
2.2	PROC5	longterm, inhalative, local	0,50	ECETOC TRA 3
2.2	PROC8a	longterm, inhalative, local	0,50	ECETOC TRA 3
2.2	PROC8b	longterm, inhalative, local	0,10	ECETOC TRA 3
2.2	PROC9	longterm, inhalative, local	0,10	ECETOC TRA 3
2.2	PROC10	longterm, inhalative, local	0,50	ECETOC TRA 3
2.2	PROC14	longterm, inhalative, local	0,10	ECETOC TRA 3
2.2	PROC15	longterm, inhalative, local	0,10	ECETOC TRA 3

The default parameters and -efficiencies of the applied exposure assessment model were used for the calculation (unless stated differently).

For (other) local effects risk management measures are based on qualitative risk characterisation.

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Please refer to the following documents: ECHA Guidance on information requirements and chemical safety assessment Chapter R.12: Use descriptor system; ECHA Guidance for downstream users; ECHA Guidance on information requirements and chemical safety assessment Part D: Exposure Scenario Building, Part E: Risk Characterisation and Part G: Extending the SDS; VCI/Cefic REACH Practical Guides on Exposure Assessment and Communications in the Supply Chain; CEFIC Guidance Specific Environmental Release Categories (SPERCs).

For scaling of worker exposure assessments performed with ECETOC TRA, please consult the Merck tool ScIDeEx® at www.merckmillipore.com/scideex.

according to Regulation (EC) No. 1907/2006

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Ph Eur, ISO

EXPOSURE SCENARIO 2 (Professional use)

1. Professional use Reagent for analysis, Chemical production)

Sectors of end-use

SU 22 Professional uses: Public domain (administration, education, entertainment, services,

craftsmen)

Chemical product category

PC21 Laboratory chemicals

Process categories

PROC15 Use as laboratory reagent

Environmental Release Categories

ERC2 Formulation of preparations

ERC6a Industrial use resulting in manufacture of another substance (use of intermediates)

ERC6b Industrial use of reactive processing aids

2. Contributing scenarios: Operational conditions and risk management measures

2.1 Contributing scenario controlling environmental exposure for: ERC2, ERC6a, ERC6b

Technical conditions and measures / Organizational measures

Water Solutions with high pH-value must be neutralized before

discharge.

Remarks Do not allow uncontrolled discharge of product into the

environment.

2.2 Contributing scenario controlling worker exposure for: PROC15

Product characteristics

Concentration of the Substance in Covers the percentage of the substance in the product up to

Mixture/Article 100 %.

Physical Form (at time of use) Solid, low dustiness

according to Regulation (EC) No. 1907/2006

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Product name Sodium hydroxide pellets for analysis (max. 0.02% K) EMSURE® ACS,Reag.

Ph Eur, ISO

Frequency and duration of use

Frequency of use 8 hours/day

Other operational conditions affecting workers exposure

Outdoor / Indoor Indoor Indoor without local exhaust ventilation (LEV)

Organisational measures to prevent /limit releases, dispersion and exposure

Covers daily exposures up to 8 hours.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves (tested to EN374), coverall and eye protection.

3. Exposure estimation and reference to its source

Workers

CS	Use descriptor	Exposure duration, route, effect	RCR	Exposure Assessment Method
2.2	PROC15	longterm, inhalative, local	0,10	ECETOC TRA 3

The default parameters and -efficiencies of the applied exposure assessment model were used for the calculation (unless stated differently).

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Please refer to the following documents: ECHA Guidance on information requirements and chemical safety assessment Chapter R.12: Use descriptor system; ECHA Guidance for downstream users; ECHA Guidance on information requirements and chemical safety assessment Part D: Exposure Scenario Building, Part E: Risk Characterisation and Part G: Extending the SDS; VCI/Cefic REACH Practical Guides on Exposure Assessment and Communications in the Supply Chain; CEFIC Guidance Specific Environmental Release Categories (SPERCs).

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