SAFETY DATA SHEET

Potassium hydroxide 30-55%

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

1.1. Product identifier

Trade name

Potassium hydroxide 30-55%

Product no.

321, 362, 383, 405, 1055, 1101, 1102, 1103, 1104, 1114

▼Unique formula identifier (UFI)

8000-A0PG-W009-2X42

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

Relevant identified uses of the substance or mixture

Catalyst in the chemical industry. For professional use only.
Restricted to professional and industrial use.

Uses advised against

None known.

1.3. Details of the supplier of the safety data sheet

Company and address

Acinor AS
Titangaten 13
1630 Gamle Fredrikstad
Norway
+ 47 69 38 40 82

Contact person

-

E-mail

post@acinor.no

Revision

07/04/2026

SDS Version

2.0

Date of previous version

07/04/2026 (1.0)

1.4. Emergency telephone number

In urgent situations: Call 113 and request the poison information centre. (24h service)
Poison Center at Tel.: + 47 22 59 13 00
See section 4 on 'First Aid Measures'

SECTION 2: Hazards identification

Classified according to Regulation (EC) No. 1272/2008 (CLP).

2.1. Classification of the substance or mixture

Met. Corr. 1; H290, May be corrosive to metals.
Acute Tox. 4; H302, Harmful if swallowed.
Skin Corr. 1A; H314, Causes severe skin burns and eye damage.

Eye Dam. 1; H318, Causes serious eye damage.

2.2. Label elements

Hazard pictogram(s)

Signal word

Danger

Hazard statement(s)

May be corrosive to metals. (H290)
Harmful if swallowed. (H302)
Causes severe skin burns and eye damage. (H314)

Precautionary statement(s)

General

Not applicable.

Prevention

Do not breathe vapour/mist/dust/fume/gas/spray. (P260)
Wear protective gloves/protective clothing/eye protection/face protection. (P280)

Response

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. (P303+P361+P353)
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)
Immediately call a POISON CENTER/doctor. (P310)

Storage

Store in a container with a resistant inner liner. (P406)

Disposal

Not applicable.

Hazardous substances

Potassium hydroxide

Additional labelling

UFI: 8000-A0PG-W009-2X42

2.3. Other hazards

Additional warnings

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification. This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2023/707.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable. This product is a mixture.

3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
Potassium hydroxide	CAS No.: 1310-58-3 EC No.: 215-181-3 REACH: 01-2119487136-33 Index No.: 019-002-00-8	20 - 55 %	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 (C ≥ 5 %) Skin Corr. 1B, H314 (2 % ≤ C < 5 %) Skin Irrit. 2, H315 (0,5 % ≤ C < 2 %) Eye Dam. 1, H318 Eye Irrit. 2, H319 (0,5 % ≤ C < 2 %)	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

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SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Emergency telephone: see section 1.4.

Inhalation

Fresh air, calm and warmth. Contact a doctor if irritation persists. If breathing stops, give artificial respiration. If breathing is difficult, oxygen may be necessary. Contact a doctor immediately!

Skin contact

Remove contaminated clothing. Wash skin immediately with soap and water. Continue rinsing for at least 15 minutes. Burns should be treated by a physician.

Eye contact

Rinse immediately with large amounts of water (temperature 20-30°C) for at least 30 minutes. Remove contact lenses, if present, and open the eye wide. Transport to a doctor. Continue rinsing during transport.

Ingestion

Rinse mouth with water. Give a couple of glasses of milk or water immediately if the injured person is fully conscious. Do not induce vomiting. Risk of perforation (penetration) of the esophagus and stomach. Contact a doctor immediately.

Burns

Not applicable.

4.2. Most important symptoms and effects, both acute and delayed

The chemical is corrosive to skin and mucous membranes. Forms blisters and can cause ulceration.
The chemical is corrosive to the eyes and can cause permanent damage. Symptoms such as severe burning, watery eyes, redness and blurred vision may occur. In severe cases, there is a risk of visual impairment/blindness.
Corrosive if swallowed. Causes burning pain in the mouth, throat and esophagus. Risk of serious permanent damage. Risk of perforation of the esophagus. Hospital treatment required.
Inhalation: Corrosive to the upper respiratory tract. Causes burning in the nose, mouth and throat, as well as sneezing, coughing, difficulty breathing and chest pain.

4.3. Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Fire in the surroundings should be extinguished with a suitable extinguishing agent.
Unsuitable extinguishing media: Do not use full water jet.

5.2. Special hazards arising from the substance or mixture

The chemical is not classified as flammable.
Produces heat when water is added (exothermic). Reacts with metals and releases highly flammable gas (hydrogen).

5.3. Advice for firefighters

Firefighters should wear appropriate protective equipment and self-contained breathing apparatus with a full face mask.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Avoid inhalation of vapours and contact with skin and eyes. Wear specified protective equipment, see section 8.

Be careful! The product is corrosive.

6.2. Environmental precautions

Prevent discharge into sewers, waterways or soil.

6.3. Methods and material for containment and cleaning up

Small spills: Neutralize with dilute acid before disposal. Flush spilled area with large amounts of water.

Absorb in vermiculite, dry sand or earth and place in containers. Do not use sawdust or other combustible material.

Collect in suitable containers and dispose of as hazardous waste according to section 13.

6.4. Reference to other sections

See section 13 “Disposal considerations” on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Ensure adequate ventilation. Avoid inhalation of vapours and contact with skin and eyes. Wear specified protective equipment, see section 8.

Never pour water directly into the product, this can cause a violent reaction/boiling. When diluting, always pour the product carefully into water.

7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Store in a container with a resistant inner liner.

Recommended storage material

Suitable containers: Iron, steel, nickel, polyethylene, synthetic material, glass or porcelain. Unsuitable containers: aluminum. Lead, aluminum, copper, tin, zinc or bronze.

Storage conditions

No specific requirements.

Incompatible materials

Oxidizing agents
Strong acids
Combustible materials
Metalls
Halogens
Organic matter
Food and animal feed

7.3. Specific end use(s)

See section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Potassium hydroxide

Long term exposure limit (8 hours) (mg/m^3): 2

Annotations:

T = Ceiling value is a momentary value that specifies the maximum concentration of a chemical in the breathing zone, that must not be exceeded.

Reference: FOR-2011-12-06-1358 Forskrift om tiltaks- og grenseverdier. Sist endret gjennom FOR-2025-12-18-2660.

DNEL

Potassium hydroxide

Duration:	Route of exposure:	DNEL:
Long term – Local effects - Workers	Inhalation	1 mg/m³

PNEC

No data available.

8.2. Exposure controls

Ensure adequate ventilation. Personal protective equipment should be CE marked and should be selected in cooperation with the supplier of such equipment. The recommended protective equipment and the standards specified are indicative. Standards should be of the latest version. Risk assessment of the relevant workplace/operation (actual risk) may require other protective measures. The suitability and durability of the protective equipment will depend on the area of application.

General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios

Follow the link to the relevant exposure scenario in section 16 and ensure that the operational conditions and risk management measures are complied with.

Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.
Ensure that eyewash stations and safety showers are located within easy reach.
Apply standard precautions during use of the product. Avoid inhalation of vapours.

Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

Generally

Use only CE marked protective equipment.

Respiratory Equipment

Type	Class	Colour	Standards
In case of insufficient ventilation or if there is a risk of inhalation of vapors, suitable respiratory protection with a combination filter (type B/P3) must be used.	B/P3	-	NS-EN 143 (Åndedrettsvern - Partikkelfiltre - Krav, prøving, merking), NS-EN 14387 (Åndedrettsvern - Gassfiltre og kombinerte filtre - Krav, prøving, merking).

Skin protection

Recommended	Type/Category	Standards
Wear appropriate protective clothing to protect against skin contact.		-
Emergency shower should be available at		-

Recommended	Type/Category	Standards
the workplace.		

Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Butyl	0,5	> 480	EN374-2, EN16523-1, EN388	
Natural rubber (latex)	0,5	> 480	EN374-2, EN16523-1, EN388	
Nitrile	0,35-0,4	> 480	EN374-3	
Polychloroprene	0,5	> 480	EN374-2, EN16523-1, EN388	
Polyvinylklorid	0,5	> 480	EN374-3	
Viton	0,35-0,4	> 480	EN374-3	
Replace gloves at any sign of wear. Protective gloves must always be worn on clean, dry hands.	-	-		

Eye protection

Type	Standards	
Safety glasses with side shields.	EN ISO 16321-1	
An eyewash station should be available at the workplace. Either a fixed eyewash station connected to drinking water (tempered water preferred) or a portable disposable unit (eyewash bottle).	-	

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid

Colour
Colourless
Odour / Odour threshold
None
pH
> 14
Density (g/cm^3)
1,298 - 1,500
Kinematic viscosity
No data available
Dynamic viscosity
2,0 - 4,5 mPa.s (25 °C)
Particle characteristics
Does not apply to liquids.

Phase changes
Melting point/Freezing point (°C)
-58,9 - 159
Softening point/range (°C)
Does not apply to liquids.
Boiling point (°C)
113 - 159
Vapour pressure
1300 - 2900 Pa
Relative vapour density
No data available
Decomposition temperature (°C)
No data available.

Data on fire and explosion hazards
Flash point (°C)
No data available
Flammability (°C)
No data available
Auto-ignition temperature (°C)
No data available
Lower and upper explosion limit (% v/v)
No data available

Solubility
Solubility in water
Soluble (121 g/100 mL)
n-octanol/water coefficient (LogKow)
No data available.
Solubility in fat (g/L)
No data available.

9.2. Other information
Other physical and chemical parameters
No data available.
Oxidizing properties
Ikke oksiderende

SECTION 10: Stability and reactivity

10.1. Reactivity

May be corrosive to metals. Reacts violently with water. Reacts with aluminum, zinc, tin and alloys of these metals.

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 “Handling and storage”.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
Sunlight
Moisture

10.5. Incompatible materials

Oxidizing agents
Strong acids
Combustible materials
Metalls
Halogens
Organic matter

10.6. Hazardous decomposition products

None under normal conditions. See also section 5.2.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product/substance	Potassium hydroxide
Test method:	OECD 425
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	333 - 388 mg/kg bw/day

Harmful if swallowed.

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Causes serious eye damage.

Respiratory sensitisation

Based on available data, the classification criteria are not met.

Skin sensitisation

Based on available data, the classification criteria are not met.

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.

Symptoms related to the physical, chemical and toxicological characteristics

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal

contact and contact with the eye cause irreversible effects.

11.2. Information on other hazards

Endocrine disrupting properties

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

Other information

None known.

SECTION 12: Ecological information

12.1. Toxicity

The chemical is not classified as environmentally harmful.

12.2. Persistence and degradability

Methods for determining biodegradability are not relevant for inorganic substances.

12.3. Bioaccumulative potential

Not expected to bioaccumulate.

12.4. Mobility in soil

The product is soluble in water.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

12.6. Endocrine disrupting properties

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

12.7. Other adverse effects

Prevent discharge into sewers, waterways or soil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Delivered as hazardous waste to an approved treatment or collector. The hazardous waste code (EAL code) is a guideline. The user must specify the correct EWC code if the area of use deviates. The product must not be poured down the drain.

EWC code

06 02 04* Sodium and potassium hydroxide

National waste number and description

7132 Inorganic bases

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: Transport information

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
ADR/A DN/RID	UN1814	POTASSIUM HYDROXIDE SOLUTION	Transport hazard class: 8 Label: 8 Classification code: C5 	II	No	Limited quantities: 1 L Tunnel restriction code: (E) See below for additional information.
IMDG	UN1814	POTASSIUM HYDROXIDE SOLUTION	Transport hazard class: 8 Label: 8 Classification code: C5	II	No	Limited quantities: 1 L EmS: F-A S-B

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
						See below for additional information.
IATA	UN1814	POTASSIUM HYDROXIDE SOLUTION	Transport hazard class: 8 Label: 8 Classification code: C5 	II	No	See below for additional information.

Additional information

This product is within scope of the regulations of transport of dangerous goods.
ADR/ADN/RID / See Table A, section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.
IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.
IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

14.6. Special precautions for user

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15: Regulatory information

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

Restrictions for application

Restricted to professional users.
People under the age of 18 shall not be exposed to this product.

Demands for specific education

No specific requirements.

SEVESO - Categories / dangerous substances

Not applicable.

Product registration number

306128

Declaration of chemicals

If the product is imported or produced in more than 100 kg/year it is subject to registration in the Product Register because it is classified as hazardous.

Additional information

Not applicable.

Sources

Regulation on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH Regulation) of 30 May 2008 with subsequent amendments.
Regulations on classification, labelling and packaging of substances and mixtures (CLP) of 16.06.2012 with subsequent amendments.
FOR 2009-04-01 no. 384: Regulations on the land transport of dangerous goods with subsequent amendments, Directorate for Civil Protection and Emergency Preparedness.
FOR-2004-06-01-930: Regulations on the recycling and treatment of waste (the Waste Regulations), with subsequent amendments.
FOR-2015-05-19-541: Regulations on the declaration of chemicals to the product register (declaration regulations) of 01.06.2015 with subsequent amendments.

15.2. Chemical safety assessment

Yes

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

H290, May be corrosive to metals.
H302, Harmful if swallowed.
H314, Causes severe skin burns and eye damage.
H315, Causes skin irritation.
H318, Causes serious eye damage.
H319, Causes serious eye irritation.

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
CE = Conformité Européenne (European conformity)
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
CSA = Chemical Safety Assessment
CSR = Chemical Safety Report
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EC = Effective concentration
ED = Effective dose
EINECS = European Inventory of Existing Commercial chemical Substances
EL = Effective Loading
ErC = Concentration associated with x% growth rate response
ES = Exposure Scenario
EUH statement = CLP-specific Hazard statement
EuPCS = European Product Categorisation System
EWC = European Waste Catalogue
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
GWP = Global warming potential
HP = Hazardous Property code
IARC = International Agency for Research on Cancer (IARC)
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IC = X maximum inhibitory concentration
IMDG = International Maritime Dangerous Goods
LC = Lethal concentration
LCLo = Value is the lowest concentration of a material in air reported to have caused the death of animals or humans
LD = Lethal dose
LOAEC = Lowest Observed Adverse Effect Concentration
LOAEL = Lowest Observed Adverse Effect Level
LOEC = Lowest Observed Effect Concentration
LogKow = logarithm of the n-octanol/water coefficient
LL = Lethal Loading
M = For multiplication factor
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
NOAEC = No Observed Adverse Effect Concentration
NOAEL = No Observed Adverse Effect Level
NOEC = No Observed Effect Concentration

NOELR = No Observable Effect Loading Rate
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SCL = A specific concentration limit
SVHC = Substances of Very High Concern
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TWA = Time weighted average
UN = United Nations
UVBC = Unknown or variable composition, complex reaction products or of biological materials
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP).

The safety data sheet is validated by

Kiwa Kompetanse AS / NOB

Other

Dette sikkerhetsdatablad er kvalitetskontrollert av Kiwa Kompetanse AS, som er sertifisert iht. ISO 9001:2015.
Country-language: NO-en

Exposure scenario

Kaliumhydroksid 30-55%.pdf (https://almego.ecoonline.net/file/ZREZRY)