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Identification	
· Product identifier	
• Trade name: <u>Potassium Hydroxide 0.5 N</u> in IPA, NIST Traceable	
• Article number: 7259	
<ul> <li>Details of the supplier of the safety data sh</li> <li>Manufacturer/Supplier: Aqua Solutions, Inc.</li> <li>6913 Highway 225 DEER PARK, TX 77536 USA</li> <li>800-256-2586</li> </ul>	AQUA SOLUTIONS
· Information department:	
Technical Coordinator Sherman Nelson shermann@aquasolutions. • Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666	org
2 Hazard(s) identification	
· Classification of the substance or mixture	
GHS02 Flame	
Flammable Liquids 2	H225 Highly flammable liquid and vapor.
GHS05 Corrosion	
•	
Skin Corrosion 1B	H314 Causes severe skin burns and eye damage.
Skin Corrosion 1B Eye Damage 1	H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage.
Eye Damage 1 GHS07	H318 Causes serious eye damage.
Eye Damage 1 GHS07 Specific Target Organ Toxicity - Single Exp • Label elements	
Eye Damage 1 GHS07 Specific Target Organ Toxicity - Single Exp • Label elements • GHS label elements The product is classified	H318 Causes serious eye damage.
Eye Damage 1 GHS07 Specific Target Organ Toxicity - Single Exp • Label elements • GHS label elements The product is classified	H318 Causes serious eye damage.
Eye Damage 1 GHS07 Specific Target Organ Toxicity - Single Exp Label elements GHS label elements The product is classifie Hazard pictograms GHS02 GHS05 GHS07	H318 Causes serious eye damage.
Eye Damage 1 GHS07 Specific Target Organ Toxicity - Single Exp • Label elements • GHS label elements The product is classifie • Hazard pictograms	H318 Causes serious eye damage.

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### Trade name: Potassium Hydroxide 0.5 N in IPA, NIST Traceable

	(Contd. of page 1)
Hazard statements	
Highly flammable liquid and vapor.	
Causes severe skin burns and eye damage.	
May cause drowsiness or dizziness.	
Precautionary statements	
Keep away from heat/sparks/open flames/hot surfaces No smoking.	
Ground/bond container and receiving equipment.	
Use explosion-proof electrical/ventilating/lighting/equipment.	
Use only non-sparking tools.	
Take precautionary measures against static discharge.	
Do not breathe dusts or mists.	
Wash thoroughly after handling.	
Use only outdoors or in a well-ventilated area.	
Wear protective gloves/protective clothing/eye protection/face protection.	
If swallowed: Rinse mouth. Do NOT induce vomiting.	
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/su	hower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if pa	resent and easy to do.
Continue rinsing.	
Immediately call a poison center/doctor.	
Specific treatment (see on this label).	
Wash contaminated clothing before reuse.	
In case of fire: Use CO2, powder or water spray to extinguish.	
Store in a well-ventilated place. Keep container tightly closed.	
Store in a well-ventilated place. Keep cool.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international regi	lations.
Classification system:	
NFPA ratings (scale 0 - 4)	
Health = 3	
$\frac{3}{Fire = 3}$	
$\frac{3}{0} Reactivity = 0$	
HMIS-ratings (scale 0 - 4)	
HEALTH 2 $Health = 2$	
FIRE 3 $Fire = 3$	
<b>REACTIVITY</b> $0$ Reactivity = 0	
Other hazards	
Results of PBT and vPvB assessment	
<b>PBT:</b> Not applicable.	
v <b>PvB</b> : Not applicable.	

# **3** Composition/information on ingredients

· Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous	components:

8 I I		
CAS: 67-63-0	Isopropanol	96.254%
CAS: 1310-58-3	Potassium Hydroxide	3.497%
	(Cont	td. on page 3)

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Trade name: Potassium Hydroxide 0.5 N in IPA, NIST Traceable

CAS: 12230-71-6 Barium Hydroxide

(Contd. of page 2) 0.249%

### 4 First-aid measures

- · Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Drink copious amounts of water and provide fresh air. Immediately call a doctor.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- *Indication of any immediate medical attention and special treatment needed No further relevant information available.*

## **5** *Fire-fighting measures*

- · Extinguishing media
- Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- $\cdot \textit{For safety reasons unsuitable extinguishing agents: Water with full jet}$
- Special hazards arising from the substance or mixture During heating or in case of fire poisonous gases are produced.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

# 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away. • Environmental precautions: Do not allow to enter sewers/ surface or ground water. • Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent. Dispose contaminated material as waste according to section 13. Ensure adequate ventilation. · 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. · Protective Action Criteria for Chemicals · PAC-1: CAS: 67-63-0 Isopropanol 400 ppm CAS: 1310-58-3 Potassium Hydroxide  $0.18 \, mg/m^3$ CAS: 12230-71-6 Barium Hydroxide  $3.4 mg/m^{3}$
- · PAC-2:

CAS: 67-63-0

Isopropanol

2000\* ppm

(Contd. on page 4)

US-

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#### Trade name: Potassium Hydroxide 0.5 N in IPA, NIST Traceable

		(Contd. of page 3)
CAS: 1310-58-3	Potassium Hydroxide	$2 mg/m^3$
CAS: 12230-71-6	Barium Hydroxide	420 mg/m <sup>3</sup>
· PAC-3:		
CAS: 67-63-0	Isopropanol	12000** ppm
CAS: 1310-58-3	Potassium Hydroxide	54 mg/m <sup>3</sup>
CAS: 12230-71-6	Barium Hydroxide	2,500 mg/m <sup>3</sup>

## 7 Handling and storage

#### · Handling:

- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- $\cdot$  Further information about storage conditions:
- *Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles.*
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see section 7.
- · Control parameters

· Com	ponents with limit values that require monitoring at the workplace:
CAS:	e 67-63-0 Isopropanol
PEL	Long-term value: 980 mg/m <sup>3</sup> , 400 ppm
REL	Short-term value: 1225 mg/m³, 500 ppm Long-term value: 980 mg/m³, 400 ppm
TLV	Short-term value: 400 ppm Long-term value: 200 ppm BEI, A4
CAS:	r 1310-58-3 Potassium Hydroxide
REL	Ceiling limit value: 2 mg/m <sup>3</sup>
TLV	Ceiling limit value: 2 mg/m <sup>3</sup>
CAS:	2 12230-71-6 Barium Hydroxide
PEL	Long-term value: 0.5 mg/m <sup>3</sup>
	as Ba
	(Contd. on page 5)

(Contd. of page 4)

# Safety Data Sheet acc. to OSHA HCS

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#### Trade name: Potassium Hydroxide 0.5 N in IPA, NIST Traceable

REL Long-term value: 0.5 mg/m<sup>3</sup> as Ba TLV Long-term value: 0.5 mg/m<sup>3</sup>

as Ba, A4

### · Ingredients with biological limit values:

### CAS: 67-63-0 Isopropanol

BEI 40 mg/L

LD50 Intraperitoneal: urine Time: end of shift at end of workweek LD50: Acetone (background, nonspecific)

• Additional information: The lists that were valid during the creation were used as basis.

- · Exposure controls
- · Personal protective equipment:
- 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.
- Avoid contact with the eyes and skin.
- · Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation  $\cdot$  **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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· 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

· Body protection: Protective work clothing

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Trade name: Potassium Hydroxide 0.5 N in IPA, NIST Traceable

(Contd. of page 5)

Information on basic physical and ch	emical properties
General Information	
Appearance:	
Form:	Liquid
Color: Odor:	Hazy IPA
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition	ivoi acierminea.
Melting point/Melting range:	-89.5 °C (-129.1 °F)
Boiling point/Boiling range:	82 °C (179.6 °F)
Flash point:	13 °C (55.4 °F)
Flammability (solid, gaseous):	Highly flammable.
Auto igniting:	425 °C (797 °F)
Decomposition temperature:	Not determined.
Ignition temperature:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapo mixtures are possible.
Explosion limits:	
Lower:	2 Vol %
Upper:	12 Vol %
Vapor pressure at 20 °C (68 °F):	43 hPa (32.3 mm Hg)
Density at 20 °C (68 °F):	0.81129 g/cm³ (6.77022 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water	): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	96.3 %
VOC content:	96.25 %
	780.9 g/l / 6.52 lb/gal
Solids content:	3.7 %
Other information	No further relevant information available.

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### **10 Stability and reactivity**

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

#### **11 Toxicological information**

- · Information on toxicological effects
- Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Oral LD50 10,545 mg/kg

#### · Primary irritant effect:

• on the skin: Caustic effect on skin and mucous membranes.

- $\cdot$  on the eye:
- Strong caustic effect.

Strong irritant with the danger of severe eye injury.

- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

CAS: 67-63-0 Isopropanol

· NTP (National Toxicology Program)

None of the ingredients is listed.

#### · OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

## **12 Ecological information**

· Toxicity

- · Aquatic toxicity: No further relevant information available.
- *Persistence and degradability No further relevant information available.*
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:

· General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

3

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(Contd. of page 7)

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or unneutralized.

• Results of PBT and vPvB assessment

• *PBT:* Not applicable.

• **vPvB:** Not applicable.

 $\cdot \textit{Other adverse effects No further relevant information available}.$ 

## **13 Disposal considerations**

· Waste treatment methods

• *Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.* 

· Uncleaned packagings:

· Recommendation: Disposal must be made according to official regulations.

UN-Number	
DOT, IMDG, IATA	UN2924
UN proper shipping name	
DOT	Flammable liquids, corrosive, n.o.s. (Isopropanol
IMDG, IATA	, Potassium Hydroxide) FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Isopropanol
	, Potassium Hydroxide)
Transport hazard class(es)	
DOT	
PLANIABLE LOAD 3 8	
Class	3 Flammable liquids
Label	3, 8
IMDG	
Class	3 Flammable liquids
Label	3/8
IATA	
Class	3 Flammable liquids

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### Trade name: Potassium Hydroxide 0.5 N in IPA, NIST Traceable

	(Contd. of page
Label	3 (8)
Packing group	
DOT, IMDG, IATA	II
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code)	
EMS Number:	F-E,S-C
Segregation groups	(SGG18) Alkalis
Stowage Category	В
Stowage Code	SW2 Clear of living quarters.
Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 1 L
	On cargo aircraft only: 5 L
IMDG	
Limited quantities (LQ)	1L
Excepted quantities $(\widetilde{EQ})$	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S
0	(ISOPROPANOL
	, POTASSIUM HYDROXIDE), 3 (8), II

# **15 Regulatory information**

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

None of the ingredients is listed.         • Section 313 (Specific toxic chemical listings):         CAS: 67-63-0       Isopropanol         CAS: 12230-71-6       Barium Hydroxide         • TSCA (Toxic Substances Control Act):	
CAS: 67-63-0IsopropanolCAS: 12230-71-6Barium Hydroxide	
CAS: 12230-71-6 Barium Hydroxide	
· TSCA (Toxic Substances Control Act):	
Isopropanol ACT	TIVE
Potassium Hydroxide ACT	TIVE
· Hazardous Air Pollutants	
None of the ingredients is listed.	
· Proposition 65	
· Chemicals known to cause cancer:	
None of the ingredients is listed.	
(Contd. on page	page 10)

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Trade name: Potassium Hydroxide 0.5 N in IPA, NIST Traceable

one of the ingredients is listed.  hemicals known to cause reproductive toxicity for males:  one of the ingredients is listed.  hemicals known to cause developmental toxicity: one of the ingredients is listed.  arcinogenic categories  PA (Environmental Protection Agency)  AS: 12230-71-6   Barium Hydroxide  IV (Threshold Limit Value)  AS: 07-63-0   Isopropanol  AS: 12230-71-6   Barium Hydroxide  IV(Threshold Limit Value)  AS: 67-63-0   Isopropanol  AS: 12230-71-6   Barium Hydroxide  IV(Threshold Limit Value)  AS: 67-63-0   Isopropanol  AS: 12230-71-6   Barium Hydroxide  IV(Threshold Limit Value)  AS: 67-63-0   Isopropanol  AS: 12230-71-6   Barium Hydroxide  IV(Threshold Limit Value)  AS: 67-63-0   Isopropanol  AS: 12230-71-6   Barium Hydroxide  IV(Threshold Limit Value)  AS: 67-63-0   Isopropanol  AS: 12230-71-6   Barium Hydroxide  IV(Threshold Limit Value)  AS: 67-63-0   Isopropanol  AS: 12230-71-6   Barium Hydroxide  IV(Threshold Limit Value)  AS: 67-63-0   Isopropanol  AS: 12230-71-6   Barium Hydroxide  IV(Threshold Limit Value)  AS: 67-63-0   Isopropanol  AS: 12230-71-6   Barium Hydroxide  IV(Threshold Limit Value)  AS: 67-63-0   Isopropanol  AS: 12230-71-6   Barium Hydroxide  IV(Threshold Limit Value)  AS: 12240-71-6   Barium Hydroxide  IV(Threshold Limit Value)  AS: 12240-71-6   Barium Hydroxide  IV(Threshold Limit Value)  AS: 12250-71-6   Barium Hydroxide  AS: 12230-71-6   Barium Hydroxide  AS: 12230-71-6   Barium Hydroxide  AS: 12230-71-6   Barium Hydroxide  AS: 12240-71-6   Isopropanol  AS: 12240-71-6   Isopropanol  AS: 12250-71-6   Barium Hydroxide  AS: 12240-71-6   Isopropanol  AS: 12250-71-6   Barium Hydroxide  AS: 12250-7	None of the ingredients is listed.         Chemicals known to cause reproductive toxicity for males:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         Carcinogenic categories         EPA (Environmental Protection Agency)         CAS: 12230-71-6         Sarium Hydroxide         CAS: 67-630         Say For-530         Say For 540         Say For	Chemicals known to cause reproductive toxicity for fe	(Contd. of pa
hemicals known to cause reproductive toxicity for males: one of the ingredients is listed. hemicals known to cause developmental toxicity: one of the ingredients is listed. arcinogenic categories PA (Environmental Protection Agency) AS: 12230-71-6 Barium Hydroxide D, CBD(inh), NL(c U (Threshold Limit Value) AS: 67-63-0 Isopropanot AS: 12230-71-6 Barium Hydroxide IOSH-Ca (National Institute for Occupational Safety and Health) one of the ingredients is listed. HS label elements The product is classified and labeled according to the Globally Harmonized System (GE arcard pictograms W (GF) GHS05 GHS05 GHS05 GHS05 GHS07 gnal word Danger aradrotectermining components of labeling: opropanol basis in Hydroxide arad statements ighty flammable liquid and vapor. uuses severe skin burns and eye damage. ary cause drowsiness or dizenses. recautionary statements eep away from heat/sparks/open flames/hot surfaces No smoking. round/bond container and receiving equipment. se only non-proof electrical/ventilating/lighting/equipment. se only on-proof electrical/ventilating/lighting/equipment. se only on-parking tools. we altower of maximus and eye domage. ary cause drowsiness or disc. se only outdoors or in a well-ventilated area. far protective gloves/protective clothing/eye protection/face protection. swallowed: Rinse mouth. Do NOT induce vomiting.	Themicals known to cause reproductive toxicity for males:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         Carcinogenic categories         FA (Environmental Protection Agency)         CAS: 12230-71-6         Barium Hydroxide         D, CBD(inh), NL(or         TVC (Threshold Limit Value)         CAS: 67-63-0         Signal word file ingredients is listed.         WOSH-Ca (Kuitomal Institute for Occupational Safety and Health)         None of the ingredients is listed.         HIS label elements The product is classified and labeled according to the Globally Harmonized System (GH: Hazard pictograms)         Wold Ca (GHSO)         GHSO2         GHSO2         GHSO3         GHSO4         GHSO5         GHSO4         GHSO5         GHSO4         Signal word Danger         Hazard statements         Highly flammable liquid and vapor.         Signal word beat/spark/sopen flames/hot surfaces No smoking.         Groundbord container and receiving equipment.         Use explosion-proof electrical/ventilating/lighting/equipment.         Use envolutionors or in a well-ventilated area.         Way cause		emates:
one of the ingredients is listed.  hemicals known to cause developmental toxicity: one of the ingredients is listed.  arcinogenic categories  PA (Environmental Protection Agency)  AS: 12230-71-6 Barium Hydroxide  D, CBD(inh), NL(C  V (Threshold Limit Value)  AS: 67-63-0 Isopropanol  AS: 12230-71-6 Barium Hydroxide  IOSH-Ca (National Institute for Occupational Safety and Health) one of the ingredients is listed.  HS tabel elements The product is classified and labeled according to the Globally Harmonized System (GE azard pictograms  Of HSO 5  GHSO5 GHSO5 GHSO7  grant word Danger  azard-determining components of labeling: opropanol  uses severe skin burns and eye damage. ay cause drowsiness or diziness.  recautionary statements get paws from heat/sparks/open flames/hot surfaces No smoking. round/bond container and receiving equipment. se explosion-proof electrical/ventilating/lighting/equipment. se only non-sparking tools.  ke precautionary measures against static discharge. o not breathe dusts or mists. ear only outdoors or in a well-ventilated area. ear ordection area contexperiment. Ear ordection and ing. Ear ordective clothingleye protection/face pr	None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         Carcinogenic categories         SPA (Environmental Protection Agency)         CAS: 12230-71-6         Barium Hydroxide         D, CBD(inh), NL(or         CIV (Threshold Limit Value)         CAS: 67-63-0       [sopropanol         CAS: 12230-71-6       Barium Hydroxide         VIOSH-Ca (National Institute for Occupational Safety and Health)         Viose of the ingredients is listed.         HIS Label elements The product is classified and labeled according to the Globally Harmonized System (GH:         Viarard pictograms         Viarard pictograms         Viarard statements         Hazard pictograms         Viarard statements         Vighty flammable liquid and vapor.         Causes severe skin burns and eye damage.         May cause drowsiness or dizziness.         Precautionary statements         Vise only outdoors or in a well-ventilating/lighting/equipment.         Use explosion-proof electrical/ventilating/lighting/equipment.         Use only outdoors or in a well-ventilated area.         Vay cause drowsines nouth. Do NOT induce vomiting.         Vise only outdoors or in a well-ventilated area.         Vi		
Improve the ingredients is listed.         arcinogenic categories         PA (Environmental Protection Agency)         AS: 12230-71-6 Barium Hydroxide         D, CBD(inh), NL(c         LV (Threshold Limit Value)         AS: 12230-71-6 Barium Hydroxide         DSH-Ca (National Institute for Occupational Safety and Health)         One of the ingredients is listed.         HS label elements The product is classified and labeled according to the Globally Harmonized System (GE acard pictograms         Image: Components of Labeling:         Oppond         GHS02         GHS05         GHS05         GHS07         Statements         acard sidements         acard sidements         acard statements         acard statements         acard statements         gales evere skin burns and eye damage.         acard statements         gales over exist of states.         eep roway from heat/sparks/open flames/hot surfaces No smoking.         round/bond container and receiving equipment.         se only non-sparking tools.         wise ony non-sparking tools.         wise ony non-sparking tools.         wise ony non-sparking tools.         wise ony non-sparking tools.         wise pro	Demicals known to cause developmental toxicity:         None of the ingredients is listed.         Carcinogenic categories         EPA (Environmental Protection Agency)         CAS: 12230-71-6         Barium Hydroxide         D, CBD(inh), NL(or         TX: 67-63-0         EXS: 12230-71-6         Barium Hydroxide         VIOSH-Ca (National Institute for Occupational Safety and Health)         None of the ingredients is listed.         HSI Isbel clements The product is classified and labeled according to the Globally Harmonized System (GH:         HSI Isbel clements The product is classified and labeled according to the Globally Harmonized System (GH:         HSI Isbel clements The product is classified and labeled according to the Globally Harmonized System (GH:         Harard pictograms         Vor GHS05       GHS07         Signal word Danger         Hazard statements         Hydry Ilammable liquid and vapor.         Causes ever skin burns and eye damage.         May cause drowsiness or dizziness.         Precautionary statements         Kee pavasy from heal/spark/open flames/hot surfaces No smoking.         FroundDond container and receiving equipment.         Jse explosion-or foried were adversited area.         Kea protecuting glooks.         Fake precautionary measures against		nales:
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Printing date 06/19/2024

Reviewed on 06/19/2024

Trade name: Potassium Hydroxide 0.5 N in IPA, NIST Traceable

(Contd. of page 10)

In case of fire: Use CO2, powder or water spray to extinguish. Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. • Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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## **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: Environment protection department.

# Contact: Date of Preparation / Last Revision: Date of preparation / last revision Revision 0.1, 06/18/2024: Reviewed SDS for accuracy. MH/STN Creation date for SDS 12-22-2014. STN 06/19/2024 / 1.0 Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit Flammable Liquids 2: Flammable liquids – Category 2 Skin Corrosion 1B: Skin corrosion/irritation - Category 1B Eye Damage 1: Serious eye damage/eye irritation – Category 1 Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) - Category 3 • \* Data compared to the previous version altered.

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