

Potassium Hydroxide, 0.1N (0.1M) in Isopropanol

Safety Data Sheet

Date of issue: 12/20/2013

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 02/12/2014

Supersedes: 12/20/2013

Version: 1.1

1.1. Product identifier	substance/mixture and of the company/undertaking
Draduat form	
Product form	: Mixture
Product name	: Potassium Hydroxide, 0.1N (0.1M) in Isopropanol
Product code	: LC19550
	substance or mixture and uses advised against
Use of the substance/mixture	: For laboratory and manufacturing use only.
1.3. Details of the supplier of the saf	iety data sheet
LabChem Inc Jackson's Pointe Commerce Park Building 1 Zelienople, PA 16063 - USA T 412-826-5230 - F 724-473-0647 info@labchem.com	000, 1010 Jackson's Pointe Court
1.4. Emergency telephone number	
Emergency number	: CHEMTREC: 1-800-424-9300 or 011-703-527-3887
SECTION 2: Hazards identificatio	n
2.1. Classification of the substance	or mixture
GHS-US classification	
Flam. Liq. 2 H225 Eye Irrit. 2A H319 STOT SE 3 H336	
2.2. Label elements	
GHS-US labelling	
Signal word (CHS US)	GHS02 GHS07
Signal word (GHS-US)	
• • • •	: Danger
Hazard statements (GHS-US)	 Danger H225 - Highly flammable liquid and vapour H319 - Causes serious eye irritation H336 - May cause drowsiness or dizziness
· · · · ·	: H225 - Highly flammable liquid and vapour H319 - Causes serious eye irritation
Hazard statements (GHS-US)	 H225 - Highly flammable liquid and vapour H319 - Causes serious eye irritation H336 - May cause drowsiness or dizziness P210 - Keep away from heat, sparks, open flames, hot surfaces No smoking P233 - Keep container tightly closed P240 - Ground/bond container and receiving equipment
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	P235 - Keep cool		
2.3. Other hazards			
Other hazards not contributing to the classification	: None.		
2.4. Unknown acute toxicity (GHS	-US)		
No data available			
SECTION 3: Composition/inform	nation on ingredients		
3.1. Substance			
Not applicable			
Full text of H-phrases: see section 16			
3.2. Mixture			
Name	Product identifier	%	GHS-US classification
Isopropyl Alcohol (2-Propanol)	(CAS No) 67-63-0	99.4	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
Potassium Hydroxide	(CAS No) 1310-58-3	0.6	Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314 Eye Dam. 1, H318
SECTION 4: First aid measures			
4.1. Description of first aid measu	res		
First-aid measures general	: Never give anything by mouth to a (show the label where possible).	in unconscious person.	If you feel unwell, seek medical advice
First-aid measures after inhalation	: Remove to fresh air and keep at re CENTER/doctor/physician if you fe	eel unwell.	
First-aid measures after skin contact	: Rinse skin with water/shower. Ren		
First-aid measures after eye contact	do. Continue rinsing. If eye irritatio	on persists: Get medical	
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vom	hiting. Obtain emergenc	y medical attention.
	d effects, both acute and delayed		
Symptoms/injuries after inhalation	: May cause drowsiness or dizzines	S.	
Symptoms/injuries after eye contact Symptoms/injuries after ingestion	Causes serious eye irritation.Diarrhoea. Nausea. Vomiting. Mer	atal confusion	
	-		
4.3. Indication of any immediate m Obtain medical assistance.	nedical attention and special treatment neo	eaea	
SECTION 5: Firefighting measu	res		
5.1. Extinguishing media Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide	e Water spray Sand	
Unsuitable extinguishing media	: Do not use a heavy water stream.	e. Water spray. Ganu.	
5.2. Special hazards arising from t Fire hazard	: Highly flammable liquid and vapou	ır	
Explosion hazard	: May form flammable/explosive var		
5.3. Advice for firefighters			
Firefighting instructions	: Use water spray or fog for cooling	exposed containers. E	xercise caution when fighting any
	chemical fire. Prevent fire-fighting	water from entering en	vironment.
Protection during firefighting	: Do not enter fire area without prop	per protective equipmen	it, including respiratory protection.
SECTION 6: Accidental release	measures		
	ive equipment and emergency procedures		
General measures	: Remove ignition sources. Use spe smoking.	cial care to avoid static	electric charges. No naked lights. No
6.1.1. For non-emergency personne	1		
Protective equipment	: Safety glasses. Protective clothing	. Gloves.	
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Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders Protective equipment Emergency procedures	 Equip cleanup crew with proper protection. Avoid breathing mist, Vapors, spray. Ventilate area.
6.2. Environmental precautions	

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3.	Methods and material for containm	ent	and cleaning up
Method	s for cleaning up		Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed :	Handle empty containers with care because residual vapours are flammable.
Precautions for safe handling :	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. No naked lights. No smoking. Use only non-sparking tools. Avoid breathing mist, vapours, spray. Use only outdoors or in a well-ventilated area.
Hygiene measures :	Wash exposed skin thoroughly after handling.
7.2. Conditions for safe storage, including	any incompatibilities
Technical measures :	Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/ equipment.
Storage conditions :	Keep only in the original container in a cool, well ventilated place away from : Heat sources, lgnition sources, incompatible materials. Keep in fireproof place. Keep container tightly closed.
Incompatible products :	Strong oxidizers. Ammonia. Strong acids.
Incompatible materials :	Sources of ignition. Direct sunlight. Heat sources.
7.3. Specific end use(s)	

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Potassium Hydroxide (1310-58-3)					
USA ACGIH	ACGIH Ceiling (mg/m ³)	2 mg/m ³			
Isopropyl Alcohol (2-Propanol) (67-63-0)					
USA ACGIH	ACGIH TWA (ppm)	200 ppm			
USA ACGIH	ACGIH STEL (ppm)	200 ppm	-		
USA OSHA OSHA PEL (TWA) (mg/m ³)		980 mg/m ³	-		
USA OSHA	OSHA PEL (TWA) (ppm)	400 ppm			

8.2. Exposure controls

Appropriate engineering controls	: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure exposure is below occupational exposure limits (where available).
Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear protective gloves.
Eye protection	: Chemical goggles or safety glasses.
Respiratory protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.
Other information	: Do not eat, drink or smoke during use.

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SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and	chemical properties	
Physical state	: Liquid	
Colour	: Colourless.	
Odour	: sharp.	
Odour threshold	: No data available	
рН	: No data available	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: No data available	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: No data available	
Self ignition temperature	: No data available	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: No data available	
Vapour pressure	: No data available	
Relative vapour density at 20 °C	: No data available	
Relative density	: No data available	
Solubility	: Soluble in water. Soluble in methanol. Soluble in ethanol.	
Log Pow	: No data available	
Log Kow	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosive properties	: No data available.	
Oxidising properties	: None.	
Explosive limits	: No data available	

9.2. **Other information**

No additional information available

SECTION 10: Stability and reactivity				
10.1. Reactivity				
No additional information available				
10.2. Chemical stability				
Highly flammable liquid and vapour. May form flammable/explosive vapour-air mixture.				
10.3. Possibility of hazardous reactions				
May react violently with oxidants.				
10.4. Conditions to avoid				
Direct sunlight. Extremely high or low temperatures. Open flame.				
10.5. Incompatible materials				
Strong oxidizers. Strong acids. Ammonia.				
10.6. Hazardous decomposition products				
Carbon dioxide. Carbon monoxide. Potassium oxide. May release flammable gases.				
SECTION 11: Toxicological information				
11.1. Information on toxicological effects				

Acute toxicity

: Not classified

Potassium Hydroxide (1310-58-3)	
LD50 oral rat	333 mg/kg (Rat; Experimental value,Rat; Experimental value)

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Isopropyl Alcohol (2-Propanol) (67-63-0)	
LD50 oral rat	5045 mg/kg (5840 mg/kg bodyweight; Rat; Rat; Experimental value,5840 mg/kg bodyweight; Rat; Rat; Rat; Experimental value)
LD50 dermal rabbit	12870 mg/kg (16.4; Rabbit; Rabbit; Experimental value,16.4; Rabbit; Rabbit; Experimental value)
LC50 inhalation rat (mg/l)	73 mg/l/4h (Rat)
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Isopropyl Alcohol (2-Propanol) (67-63-0)	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/injuries after inhalation	: May cause drowsiness or dizziness.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
Symptoms/injuries after ingestion	: Diarrhoea. Nausea. Vomiting. Mental confusion.

Likely routes of exposure : Skin and eye contact; Inhalation

SECTION 12:	Ecologica	l information

12.1. Toxicity

Potassium Hydroxide (1310-58-3)		
LC50 fishes 1	> 28.6 mg/l (96 h; Pisces; Lethal)	
LC50 fish 2	80 mg/l (Gambusia affinis)	
TLM fish 1	80 ppm (24 h; Gambusia affinis)	
Isopropyl Alcohol (2-Propanol) (67-63-0)		
LC50 fishes 1	4200 mg/l (96 h; Rasbora heteromorpha; Flow-through system)	
EC50 Daphnia 1	> 10000 mg/l (48 h; Daphnia magna)	
LC50 fish 2	9640 mg/l (96 h; Pimephales promelas; Lethal)	
EC50 Daphnia 2	13299 mg/l (48 h; Daphnia magna)	
Threshold limit algae 1	> 1000 mg/l (72 h; Scenedesmus subspicatus; Growth rate)	
Threshold limit algae 2	1800 mg/l (72 h; Algae; Cell numbers)	

12.2. Persistence and degradability

Potassium Hydroxide, 0.1N (0.1M) in Isopropanol		
Persistence and degradability	Not established.	
Potassium Hydroxide (1310-58-3)		
Persistence and degradability	Biodegradability: not applicable.	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
BOD (% of ThOD)	Not applicable	
Isopropyl Alcohol (2-Propanol) (67-63-0)		
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. No (test)data on mobility of the substance available.	
Biochemical oxygen demand (BOD)	1.19 g O ² /g substance	
Chemical oxygen demand (COD)	2.23 g O ² /g substance	
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Isopropyl Alcohol (2-Propanol) (67-63-0) ThOD	2.40 g O ² /g substance
BOD (% of ThOD)	0.49 % ThOD
12.3. Bioaccumulative potential	
Potassium Hydroxide, 0.1N (0.1M) in Isopro	
Bioaccumulative potential	Not established.
Potassium Hydroxide (1310-58-3)	
Bioaccumulative potential	Bioaccumulation: not applicable.
Isopropyl Alcohol (2-Propanol) (67-63-0)	
Log Pow	0.05 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
12.4. Mobility in soil	
-	
Isopropyl Alcohol (2-Propanol) (67-63-0)	
Surface tension	0.021 N/m (25 °C)
12.5. Other adverse effects	
Other information	: Avoid release to the environment.
SECTION 13: Disposal consideration	ns
13.1. Waste treatment methods	
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations.
Additional information	: Handle empty containers with care because residual vapours are flammable.
Ecology - waste materials	: Avoid release to the environment.
SECTION 14: Transport information	
In accordance with DOT	
Transport document description	: UN1993 Flammable liquids, n.o.s. (Isopropanol), 3, II
UN-No.(DOT)	: 1993
DOT NA no.	: UN1993
DOT Proper Shipping Name	: Flammable liquids, n.o.s.
	Isopropanol
Department of Transportation (DOT) Hazard Classes	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Hazard labels (DOT)	: 3 - Flammable liquid
DOT Symbols	: G - Identifies PSN requiring a technical name
Packing group (DOT)	: II - Medium Danger
DOT Special Provisions (49 CFR 172.102)	 IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T7 - 4 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202
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DOT Packaging Bulk (49 CFR 173.xxx)	: 242
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L
DOT Vessel Stowage Location	: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
Additional information	
Other information	: No supplementary information available.
ADR	
Transport document description	:
Transport by sea	
No additional information available	
Air transport	
No additional information available	
SECTION 15: Regulatory information	
15.1. US Federal regulations	
Potassium Hydroxide, 0.1N (0.1M) in Isopropa	anol
SARA Section 311/312 Hazard Classes	Fire hazard
Potassium Hydroxide (1310-58-3)	
Listed on the United States TSCA (Toxic Substat	nces Control Act) inventory
RQ (Reportable quantity, section 304 of EPA's List of Lists) :	1000 lb
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
Isopropyl Alcohol (2-Propanol) (67-63-0)	
Listed on the United States TSCA (Toxic Substan Listed on SARA Section 313 (Specific toxic chem	
15.2. International regulations	
CANADA	
Potassium Hydroxide, 0.1N (0.1M) in Isopropa	anol
WHMIS Classification	Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision B - Toxic material causing other toxic effects
Potassium Hydroxide (1310-58-3)	
WHMIS Classification	Class E - Corrosive Material
Isopropyl Alcohol (2-Propanol) (67-63-0)	
WHMIS Classification	Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision B - Toxic material causing other toxic effects

Class D Division 2 Subdivision B - Toxic material causing other toxic effects

EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC or 1999/45/EC Not classified

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15.2.2. National regulations

No additional information available

15.3. US State regulations

No additional information available

SECTION 16: Other information

Other information

: None.

Full text of H-phrases: see section 16:

•	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Flam. Liq. 2	Flammable liquids, Category 2
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3,
	Narcosis
H225	Highly flammable liquid and vapour
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness

NFPA health hazard	: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
NFPA fire hazard	: 3 - Liquids and solids that can be ignited under almost all ambient conditions.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 3 Serious Hazard
Physical	: 0 Minimal Hazard
Personal Protection	: H

SDS US (GHS HazCom 2012)

Information in this SDS is from available published sources and is believed to be accurate. No warranty, express or implied, is made and LabChem Inc assumes no liability resulting from the use of this SDS. The user must determine suitability of this information for his application.