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ReAgent

SAFETY DATA SHEET POTASSIUM HYDROXIDE 0.5M (0.5N) ALCOHOLIC

According to Regulation (EC) No 1907/2006

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME POTASSIUM HYDROXIDE 0.5M (0.5N) ALCOHOLIC
 PRODUCT NO. 1068
 APPLICATION General chemical reagent
 SUPPLIER Reagent Chemical Services
 18 Aston Fields Road
 Whitehouse Industrial Estate
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 Cheshire WA7 3DL
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2 HAZARDS IDENTIFICATION

Highly flammable. Causes burns. Harmful by inhalation, in contact with skin and if swallowed. Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

CLASSIFICATION Xn;R20/21/22, R68/20/21/22. C;R34. F;R11.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
ETHANOL	200-578-6	64-17-5	60-100%	F;R11
METHANOL	200-659-6	67-56-1	1-5%	F;R11 T;R23/24/25,R39/23/24/25
POTASSIUM HYDROXIDE	215-181-3	1310-58-3	1-5%	C;R35 Xn;R22

The Full Text for all R-Phrases are Displayed in Section 16

4 FIRST-AID MEASURES

INHALATION

Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. Get medical attention if any discomfort continues.

INGESTION

Do not induce vomiting. Immediately rinse mouth and drink plenty of water. Get medical attention immediately!

SKIN CONTACT

Remove contaminated clothing. Rinse the skin immediately with lots of water. Get medical attention immediately.

EYE CONTACT

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention immediately. Continue to rinse.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Water spray, dry powder or vaporising liquids

UNUSUAL FIRE & EXPLOSION HAZARDS

HIGHLY FLAMMABLE! Vapours are heavier than air and may spread near ground to sources of ignition. Forms explosive mixtures with air.

PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6 ACCIDENTAL RELEASE MEASURES

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PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this safety data sheet.

SPILL CLEAN UP METHODS

Remove sources of ignition. Small Spillages Absorb with inert, non-combustible material. Large Spillages Dam and absorb spillages with sand, earth or other non-combustible material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Wash spillage site well with water and detergent, be aware of the potential for surfaces to become slippery. Ventilate well.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Avoid spilling, skin and eye contact. Static electricity and formation of sparks must be prevented. Eliminate all sources of ignition.

STORAGE PRECAUTIONS

Flammable/combustible - Keep away from oxidisers, heat and flames. Store in tightly closed original container in a dry and cool place.

STORAGE CLASS

Flammable liquid storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
ETHANOL	OES	1000 ppm	1920 mg/m ³			
METHANOL	WEL	200 ppm(Sk)	266 mg/m ³ (Sk)	250 ppm(Sk)	333 mg/m ³ (Sk)	
POTASSIUM HYDROXIDE	OES				2 mg/m ³	

WEL = Workplace Exposure Limit.

ENGINEERING MEASURES

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined workplace exposure limit is not exceeded. Explosion-proof general and local exhaust ventilation.

RESPIRATORY EQUIPMENT

In case of inadequate ventilation use suitable respirator.

HAND PROTECTION

Use full-length gloves. Rubber or plastic

EYE PROTECTION

Wear goggles/face shield.

OTHER PROTECTION

Wear appropriate clothing to prevent any possibility of skin contact. Provide eyewash station.

HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes wet or contaminated. When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Liquid		
COLOUR	Colourless to pale yellow		
ODOUR	Odour of alcohol		
SOLUBILITY	Miscible with water.		
RELATIVE DENSITY	0.8	VAPOUR DENSITY (air=1)	~ 0.8
pH-VALUE, CONC. SOLUTION	About 14	FLASH POINT (°C)	13
AUTO IGNITION	425	FLAMMABILITY LIMIT - LOWER(%)	3.3
TEMPERATURE (°C)			
FLAMMABILITY LIMIT - UPPER(%)	19		

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions.

POTASSIUM HYDROXIDE 0.5M (0.5N) ALCOHOLIC**CONDITIONS TO AVOID**

Avoid heat, flames and other sources of ignition.

MATERIALS TO AVOID

Alkali metals. Alkali earth metals. Strong oxidising substances. Inorganic hydrides. Nitric acid. Aluminium. Metal oxides. Inorganic nitrates. Ammonium compounds (Formation of ammonia).

11 TOXICOLOGICAL INFORMATION**INHALATION**

Harmful by inhalation.

INGESTION

Corrosive. Even small amounts may cause serious damage.

SKIN CONTACT

Causes burns.

EYE CONTACT

Strongly corrosive. Causes severe burns and serious eye damage. Immediate first aid is imperative.

HEALTH WARNINGS

Absorption of large quantities may cause irreversible damage to the optic nerve (due to methanol), nausea, headache, vomiting, inebriation and blindness.

12 ECOLOGICAL INFORMATION**ECOTOXICITY**

The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.

DEGRADABILITY

Ethanol: Biodegradable

13 DISPOSAL CONSIDERATIONS**DISPOSAL METHODS**

Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION

UK ROAD CLASS	3		
PROPER SHIPPING NAME	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (ETHANOL, POTASSIUM HYDROXIDE)		
UN NO. ROAD	2924	UK ROAD PACK GR.	II
ADR CLASS NO.	3	ADR CLASS	Class 3: Flammable liquids.
ADR PACK GROUP	II	HAZARD No. (ADR)	338
ADR LABEL NO.	3 & 8	HAZCHEM CODE	3WE
CEFIC TEC(R) NO.	30GFC-II	RID CLASS NO.	3
RID PACK GROUP	II	UN NO. SEA	2924
IMDG CLASS	3	IMDG PAGE NO.	3 & 8
IMDG PACK GR.	II	EMS	F-E, S-C
MFAG	See Guide	MARINE POLLUTANT	No.
UN NO. AIR	2924	AIR CLASS	3
AIR SUB CLASS	8	AIR PACK GR.	II

15 REGULATORY INFORMATION**LABELLING**

POTASSIUM HYDROXIDE 0.5M (0.5N) ALCOHOLIC



Corrosive



Harmful



Highly Flammable

CONTAINS

METHANOL
POTASSIUM HYDROXIDE

RISK PHRASES

- R11 Highly flammable.
- R34 Causes burns.
- R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
- R68/20/21/22 Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

SAFETY PHRASES

- S9 Keep container in a well-ventilated place.
- S16 Keep away from sources of ignition - No smoking.
- S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
- S51 Use only in well-ventilated areas.
- S24/25 Avoid contact with skin and eyes.
- S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
- S60 This material and its container must be disposed of as hazardous waste.

UK REGULATORY REFERENCES

Highly Flammable Liquid Regulations 1972. Fire precautions Act 1971.

STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations. Control of Substances Hazardous to Health.

APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply. COSHH essentials: Easy steps to control chemicals. Control of Substances Hazardous to Health Regulations.

GUIDANCE NOTES

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37.

NATIONAL REGULATIONS

Control of Substances Hazardous to Health Regulations 2002 (as amended)

16 OTHER INFORMATION

REVISION COMMENTS

Change to section 11. Change to section 1

REVISION DATE 25/09/2008

REV. NO./REPL. SDS GENERATED 1

SDS NO. 10080

RISK PHRASES IN FULL

- R35 Causes severe burns.
- R22 Harmful if swallowed.
- R11 Highly flammable.
- R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
- R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.