

# SAFETY DATA SHEET

### 1. Identification

Product identifier	LD1
Other means of identification	None.
Recommended use of the chemi Recommended use Recommended restrictions	Industrial use.
Manufacturer/Importer/Supplier/	Distributor information
Manufacturer/Supplier	KMG Singapore Pte. Ltd.
Address	14 Tuas Avenue 20 Singapore 638826
Phone number	3163 6666
Emergency phone number	CHEMTREC: 001-800-424-9300 (Transportation emergency only)
3E Emergency Services	+65 3158 6734, Access code: 333035
2. Hazards identification GHS classification	

#### **Physical hazards** Not classified. Health hazards Skin corrosion/irritation Category 1 Serious eye damage/eye irritation Category 1 Not classified.

**Environmental hazards** 

#### GHS label elements, including precautionary statements

**Pictograms** 

Signal word	Danger
Hazard statements	Causes severe skin burns and eye damage.
Precautionary statement	
Prevention	Do not breathe mist/vapours. Wear protective gloves/protective clothing/eye protection/face protection.
Response	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE/doctor.
Storage	Not assigned.
Disposal	Not assigned.
Other hazards which do not result in classification	None known.
Supplemental information	None.
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#### 3. Composition/information on ingredients

Substance or mixture Mixture **Chemical name** Common name and synonyms **CAS Number Concentration (%)** Tetrapotassium pyrophosphate 7320-34-5 6 - 8 2-Aminoethanol 2 - 4 141-43-5 2 - 4 Ethoxylated 9014-85-1 2,4,7,9-tetramethyl-5-decyn-4,7-diol Potassium hydroxide 1 - 2 1310-58-3 **Composition comments** All concentrations are in percent by weight unless otherwise indicated.

Components not listed are either non-hazardous or are below reportable limits.

#### 4. First-aid measures

Inhalation	Move to fresh air. Immediately call a poison control centre or doctor for treatment advice.
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control centre immediately. Chemical burns must be treated by a physician.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control centre immediately.
Ingestion	Call a physician or poison control centre immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Most important symptoms/effects, acute and delayed	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

### 5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	In the event of fire and/or explosion do not breathe fumes. During fire, gases hazardous to health may be formed. Combustion products may include: carbon oxides, nitrogen oxides, phosphorus oxides, metal oxides.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk. Dike fire control water for later disposal.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	The product is an aqueous solution. After the water component evaporates, the remaining material will burn.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist/vapours. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Retain and dispose of contaminated wash water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
7. Handling and storage	
Precautions for safe handling	Do not breathe mist/vapours. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store locked up. Store in tightly closed container. Store away from incompatible materials (see section 10 of the SDS).

#### 8. Exposure controls/personal protection

#### **Occupational exposure limits**

Components	Type	xposure Levels of Toxic Substances) Order) Value	
2-Aminoethanol (CAS 141-43-5)	STEL	15 mg/m3	
		6 ppm	
	TWA	7.5 mg/m3	

Components	Туре	Value
		3 ppm
Potassium hydroxide (CAS 1310-58-3)	STEL	2 mg/m3
ontrol parameters/Occupationa	Il exposure limits	
US. ACGIH Threshold Limit	Values	
Components	Туре	Value
2-Aminoethanol (CAS 141-43-5)	STEL	6 ppm
	TWA	3 ppm
Potassium hydroxide (CAS 1310-58-3)	Ceiling	2 mg/m3
ppropriate engineering ntrol measures	Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.	
dividual protection measures,	such as personal protective equipr	nent
Eye/face protection	When working with liquids wear splash-proof chemical goggles and face shield unless full facepiece respiratory protection is worn.	
Skin protection		
Hand protection	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.	
Other	Wear appropriate chemical resistant clothing.	
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Selection and use of respiratory protective equipment should be in accordance with Singapore Standard SS 548:2009. Appropriate respirator selection should be made by a qualified professional.	
Thermal hazards	Wear appropriate thermal protective	e clothing, when necessary.
eneral hygiene Insiderations		ene measures, such as washing after handling the materi smoking. Routinely wash work clothing and protective

### 9. Physical and chemical properties

Appearance		
Physical state	Liquid.	
Form	Liquid.	
Colour	Colourless.	
Odour	Odourless.	
Odour threshold	Not available.	
рН	12.5 - 13.5	
Melting point/freezing point	Not available.	
Initial boiling point and boiling range	Not available.	
Flash point	Not available.	
Evaporation rate	Not available.	
Flammability (solid, gas)	Not applicable.	
Flammability limit - lower (%)	Not available.	
Flammability limit - upper (%)	Not available.	
Explosive limit - lower ( %)	Not available.	
Explosive limit – upper (%)	Not available.	
Vapour pressure	Not available.	
Vapour density	Not available.	
Relative density	1.05 - 1.1	 
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Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other data	
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

## 10. Stability and reactivity

Reactivity	Reacts violently with strong acids. This product may react with oxidizing agents.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Acids. Oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

### 11. Toxicological information

#### Information on likely routes of exposure

Inhalation	May cause irritation to the respiratory system.		
Skin contact	Causes severe skin burns.		
Eye contact	Causes serious eye damage.		
Ingestion	Causes digestive tract burns.		
Acute toxicity	Not expected to be acutely toxic.		
Components	Species	Test Results	
2-Aminoethanol (CAS 141-43-5)			
Acute			
Dermal			
LD50	Rabbit	1025 mg/kg	
Oral			
LD50	Rat	1089 mg/kg	
Potassium hydroxide (CAS 1310-5	58-3)		
Acute			
Oral			
LD50	Rat	365 mg/kg	
Tetrapotassium pyrophosphate (C	AS 7320-34-5)		
Acute			
Dermal			
LD50	Rabbit	> 4640 mg/kg	
Symptoms	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.		
Skin corrosion/irritation	Causes severe skin burns.		
Serious eye damage/eye irritation	Causes serious eye damage.		
Respiratory or skin sensitisation	n		
<b>Respiratory sensitisation</b>	Not a respiratory sensitiser.		
Skin sensitisation	This product is not expected to cause skin sens	itisation.	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	Not classifiable as to carcinogenicity to humans.		
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.		

Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	May be harmful if absorbed through skin.

### 12. Ecological information

Ecotoxicity

ecoloxicity	possibility that large or frequent spills can have a harmful or damaging effect on the environmen				
Components	. ,	Species	Test Results		
2-Aminoethanol (CAS 141-43-	-5)				
Aquatic					
Acute					
Algae	EC50	Pseudokirchnerella subcapitata	2.8 mg/l, 72 Hours		
Crustacea	EC50	Daphnia magna	32.6 mg/l, 48 Hours		
Fish	LC50	Oncorhynchus mykiss	150 mg/l, 96 Hours		
Chronic					
Crustacea	EC50	Daphnia magna	2.52 mg/l, 21 days		
Potassium hydroxide (CAS 13 Aquatic	310-58-3)				
Fish	LC50	Western mosquitofish (Gambusia af	finis) 80 mg/l, 96 Hours		
Persistence and degradability	No data is a	vailable on the degradability of this proc	luct.		
Bioaccumulative potential		<b>č</b>			
Octanol/water partition coef	ficient log Ko	w			
2-Aminoethanol (CAS 14		-1.31			
Mobility in soil	No data ava	No data available.			
Other adverse effects	The product contains volatile organic compounds which have a photochemical ozone creation potential. The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.				
13. Disposal consideration	าร				
Disposal methods/information	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.				
Special precautions	Dispose in a	Dispose in accordance with all applicable regulations.			
14. Transport information					
ADR					
UN number	UN1760				
UN proper shipping name Transport hazard class(es)	CORROSIVE LIQUID, N.O.S. (2-Aminoethanol; Potassium hydroxide)				
Class	8				
Subsidiary risk Label(s)	- 8				
Hazard No. (ADR)	8 80				
Tunnel restriction code					
Packing group	II				
Environmental hazards		No Read safety instructions, SDS and emergency procedures before handling.			
RID	r neau salely	instructions, SDS and emergency proc	edules belore handling.		
UN number	UN1760				
UN proper shipping name	CORROSIVE LIQUID, N.O.S. (2-Aminoethanol; Potassium hydroxide)				
Transport hazard class(es)					
Class	8				
Subsidiary risk	- 9				
Label(s) Packing group	8 				
Environmental hazards	No				
	ser Read safety instructions, SDS and emergency procedures before handling.				
ADN UN number	UN1760				

The product is not classified as environmentally hazardous. However, this does not exclude the

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UN proper shipping name	CORROSIVE LIQUID, N.O.S. (2-Aminoethanol; Potassium hydroxide)		
Transport hazard class(es)			
Class	8		
Subsidiary risk Label(s)	- 8		
Packing group			
Environmental hazards	No		
	<ul> <li>Read safety instructions, SDS and emergency procedures before handling.</li> </ul>		
ΙΑΤΑ			
UN number	UN1760		
UN proper shipping name Transport hazard class(es)	Corrosive liquid, n.o.s. (2-Aminoethanol; Potassium hydroxide)		
Class	8		
Subsidiary risk	-		
Packing group	II		
Environmental hazards	No		
ERG Code	8L		
IMDG	Read safety instructions, SDS and emergency procedures before handling.		
UN number	UN1760		
UN proper shipping name	CORROSIVE LIQUID, N.O.S. (2-Aminoethanol; Potassium hydroxide)		
Transport hazard class(es)			
Class	8		
Subsidiary risk	-		
Packing group Environmental hazards	II		
Marine pollutant	Νο		
EmS	F-A, S-B		
	<ul> <li>Read safety instructions, SDS and emergency procedures before handling.</li> </ul>		
Transport in bulk according to	Not established.		
Annex II of MARPOL 73/78 and the IBC Code			
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Not applicable. Kyoto Protocol

#### **Basel Convention**

Not applicable.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### 16. Other information

References	HSDB® - Hazardous Substances Data Bank IARC Monographs. Overall Evaluation of Carcinogenicity
Issued by	Not available.
Prepared by	
Title	Sharlene Parry, Product Stewardship Manager
Disclaimer	KMG Electronic Chemicals, Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.
Issue date	08-December-2019
Revision date	-
Key/legend	<ul> <li>ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways.</li> <li>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.</li> <li>CAS: Chemical Abstract Service.</li> <li>IATA: International Air Transport Association.</li> <li>IBC: International Air Transport Association.</li> <li>IMDG: International Maritime Dangerous Goods.</li> <li>MARPOL: International Convention for the Prevention of Pollution From Ships.</li> <li>RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.</li> <li>STEL: Short-Term Exposure Limit.</li> <li>TWA: Time Weighted Average.</li> </ul>