

Reviewed on 05/19/2015

1 Identification

- · Product identifier
- · Trade name: LSR/30
- Article number: LSR/30
- · Details of the supplier of the safety data sheet

• Manufacturer/Supplier: Chemical Consultants Inc. 1850 Wild Turkey Circle Corona, CA 92880 USA +1 (951) 735-5511 ncollins@ccidom.com

• Information department: Product safety department • Emergency telephone number: INFOTRAC 1-800-535-5053

2 Hazard(s) identification

· Classification of the substance or mixture

GHS05 Corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.



Acute Tox. 4 H302 Harmful if swallowed.

Flam. Liq. 4 H227 Combustible liquid.

· Label elements

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



· Signal word Danger

Hazard-determining components of labeling: N-cyclohexyl-2-pyrrolidone 2-pyrrolidone potassium hydroxide sodium hydroxide
Hazard statements H227 Combustible liquid. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage.
Precautionary statements P210 Keep away from flames and hot surfaces. – No smoking. P260 Do not breathe dusts or mists.

(Contd. on page 2)

US



Reviewed on 05/19/2015

Trade name: LSR/30

	(Contd. of page 1)
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves / eye protection / face protection.
P301+P312	If swallowed: Call a poison center/doctor if you feel unwell.
P301+P330+P331	If swallowed: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321	Specific treatment (see on this label).
P337+P313	If eye irritation persists: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use for extinction: CO2, powder or water spray.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
Other hazards	

· Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

· Dangerous components:		
97-99-4	tetrahydro-2-furylmethanol	20-40%
112-34-5	2-(2-butoxyethoxy)ethanol	10-20%
6837-24-7	N-cyclohexyl-2-pyrrolidone	1-10%
616-45-5	2-pyrrolidone	1-10%
1310-58-3	potassium hydroxide	1-10%
	sodium hydroxide	1-10%
107-98-2	1-methoxy-2-propanol	1-5%
111-76-2	2-butoxyethanol	1-5%
3445-11-2	1-(2-Hydroxyethyl)-2-pyrrolidone	1-5%
68439-46-3	Alcohols, C9-11, ethoxylated	1-5%
2687-94-7	1-octyl-2-pyrrolidone	1-5%

4 First-aid measures

\cdot Description of first aid measures

• General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

• 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.

(Contd. on page 3)

US



Trade name: LSR/30

Reviewed on 05/19/2015

(Contd. of page 2)

- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor. • After swallowing:
- Immediately call a doctor.
- 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.
- \cdot 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. 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

	iratory protective device. ctive equipment. Keep unprotected persons away.	
*	ntal precautions:	
	plenty of water.	
For large sp	oills: Do not allow to enter sewers/ surface or ground water.	
	d material for containment and cleaning up:	
	l liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
Use neutral		
*	ntaminated material as waste according to item 13.	
	quate ventilation. o other sections	
	<i>7 for information on safe handling.</i>	
	8 for information on personal protection equipment.	
	<i>13 for disposal information.</i>	
	Action Criteria for Chemicals	
Protective A PAC-1:		30 ppm
Protective A PAC-1: 112-34-5	Action Criteria for Chemicals	30 ppm 6.9 ppm
Protective A PAC-1: 112-34-5 616-45-5	Action Criteria for Chemicals 2-(2-butoxyethoxy)ethanol	6.9 ppm
Protective A PAC-1: 112-34-5 616-45-5 1310-58-3	Action Criteria for Chemicals 2-(2-butoxyethoxy)ethanol 2-pyrrolidone	6.9 ppm
Protective A PAC-1: 112-34-5 616-45-5 1310-58-3 1310-73-2	Action Criteria for Chemicals 2-(2-butoxyethoxy)ethanol 2-pyrrolidone potassium hydroxide	6.9 ppm 0.18 mg/m ²
Protective A PAC-1: 112-34-5 616-45-5 1310-58-3 1310-73-2 107-98-2	Action Criteria for Chemicals 2-(2-butoxyethoxy)ethanol 2-pyrrolidone potassium hydroxide sodium hydroxide	6.9 ppm 0.18 mg/m ² 0.5 mg/m ³
Protective A PAC-1: 112-34-5 616-45-5 1310-58-3 1310-73-2 107-98-2 111-76-2	Action Criteria for Chemicals 2-(2-butoxyethoxy)ethanol 2-pyrrolidone potassium hydroxide sodium hydroxide 1-methoxy-2-propanol	6.9 ppm 0.18 mg/m ² 0.5 mg/m ³ 100 ppm
Protective A PAC-1: 112-34-5 616-45-5 1310-58-3 1310-73-2 107-98-2 111-76-2 102-71-6	Action Criteria for Chemicals 2-(2-butoxyethoxy)ethanol 2-pyrrolidone potassium hydroxide sodium hydroxide 1-methoxy-2-propanol 2-butoxyethanol	6.9 ppm 0.18 mg/m ³ 0.5 mg/m ³ 100 ppm 60 ppm
Protective A PAC-1: 112-34-5 616-45-5 1310-58-3 1310-73-2 107-98-2 111-76-2 102-71-6	Action Criteria for Chemicals 2-(2-butoxyethoxy)ethanol 2-pyrrolidone potassium hydroxide sodium hydroxide 1-methoxy-2-propanol 2-butoxyethanol Triethanolamine	6.9 ppm 0.18 mg/m ³ 0.5 mg/m ³ 100 ppm 60 ppm 15 mg/m ³
Protective A PAC-1: 112-34-5 616-45-5 1310-58-3 1310-73-2 107-98-2 107-98-2 102-71-6 68391-01-5 PAC-2:	Action Criteria for Chemicals 2-(2-butoxyethoxy)ethanol 2-pyrrolidone potassium hydroxide sodium hydroxide 1-methoxy-2-propanol 2-butoxyethanol Triethanolamine	6.9 ppm 0.18 mg/m ² 0.5 mg/m ³ 100 ppm 60 ppm 15 mg/m ³



Trade name: LSR/30

Reviewed on 05/19/2015

		(Contd. of page 3)
1310-58-3	potassium hydroxide	$2 mg/m^3$
1310-73-2	sodium hydroxide	$5 mg/m^3$
107-98-2	1-methoxy-2-propanol	160 ppm
111-76-2	2-butoxyethanol	120 ppm
102-71-6	Triethanolamine	240 mg/m ³
68391-01-5	Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides	6.8 mg/m ³
· PAC-3:		
112-34-5	2-(2-butoxyethoxy)ethanol	200 ppm
616-45-5	2-pyrrolidone	460 ppm
1310-58-3	potassium hydroxide	54 mg/m ³
1310-73-2	sodium hydroxide	50 mg/m ³
107-98-2	1-methoxy-2-propanol	660 ppm
111-76-2	2-butoxyethanol	700 ppm
102-71-6	Triethanolamine	1,500 mg/m ³
68391-01-5	Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides	60 mg/m ³

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. Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- 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 item 7.

· Control parameters

· Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

97-99-4 tetrahydro-2-furylmethanol

WEEL Long-term value: 0.5 ppm

112-34-5 2-(2-butoxyethoxy)ethanol

TLV Long-term value: 67.5* mg/m³, 10* ppm *Inhalable fraction and vapor

(Contd. on page 5)

US



Reviewed on 05/19/2015

Trade name: LSR/30

chemical mixture.

· Material of gloves

	(Contd. of page 4)
1310-	58-3 potassium hydroxide
REL	Ceiling limit value: 2 mg/m ³
TLV	Ceiling limit value: 2 mg/m ³
1310-	73-2 sodium hydroxide
PEL	Long-term value: 2 mg/m ³
REL	Ceiling limit value: 2 mg/m ³
TLV	Ceiling limit value: 2 mg/m ³
107-9	8-2 1-methoxy-2-propanol
REL	Short-term value: 540 mg/m ³ , 150 ppm Long-term value: 360 mg/m ³ , 100 ppm
TLV	Short-term value: 369 mg/m ³ , 100 ppm Long-term value: 184 mg/m ³ , 50 ppm
111-7	6-2 2-butoxyethanol
PEL	Long-term value: 240 mg/m ³ , 50 ppm Skin
REL	Long-term value: 24 mg/m ³ , 5 ppm Skin
TLV	Long-term value: 97 mg/m ³ , 20 ppm BEI
· Ingre	dients with biological limit values:
111-7	6-2 2-butoxyethanol
	200 mg/g creatinine
	Medium: urine
	Time: end of shift
	Parameter: Butoxyacetic acid with hydrolysis
	<i>ional information:</i> The lists that were valid during the creation were used as basis.
	sure controls
	nal protective equipment:
	ral protective and hygienic measures: away from foodstuffs, beverages and feed.
	diately remove all soiled and contaminated clothing.
	hands before breaks and at the end of work.
	contact with the eyes.
	contact with the eyes and skin.
	hing equipment:
	se of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use
	ratory protective device that is independent of circulating air.
· Prote	ction 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

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.

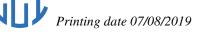
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

– US

(Contd. on page 6)

(Contd. of page 5)

Safety Data Sheet acc. to OSHA HCS



Reviewed on 05/19/2015

Trade name: LSR/30

 \cdot 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.

 \cdot Eye protection:



Tightly sealed goggles

Information on basic physical and	chemical properties	
General Information		
Appearance: Form:	Fluid	
Form: Color:	Fiuld According to product specification	
Odor:	Characteristic	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	100 °C (212 °F)	
Flash point:	74 °C (165.2 °F)	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:	240 °C (464 °F)	
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Not determined.	
Explosion limits:		
Lower:	1.5 Vol %	
Upper:	9.7 Vol %	
Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
Density at 20 °C (68 °F):	1.152 g/cm³ (9.61344 lbs/gal)	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with	- - - - - - - - - -	
Water:	Fully miscible.	
Partition coefficient (n-octanol/wat	er): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
VOC content:	387.0 g/l / 3.23 lb/gal	

page 7)



Reviewed on 05/19/2015

Trade name: LSR/30

• Other information

No further relevant information available.

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:

97-99-4 tetrahydro-2-furylmethanol

Oral LD50 1,600 mg/kg (rat)

1310-58-3 potassium hydroxide

Oral LD50 273 mg/kg (rat)

1310-73-2 sodium hydroxide

Oral LD50 2,000 mg/kg (rat)

2687-94-7 1-octyl-2-pyrrolidone

Oral LD50 2,050 mg/kg (rat)

Dermal LD50 >2,000 mg/kg (rab)

· Primary irritant effect:

• on the skin: Strong caustic effect on skin and mucous membranes.

• 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: Harmful

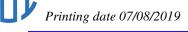
- Corrosive
- Irritant

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)	
111-76-2 2-butoxyethanol	3
102-71-6 Triethanolamine	3
· NTP (National Toxicology Program)	
None of the ingredients is listed.	
	(Contd. on page 8
	t

(Contd. of page 6)



Reviewed on 05/19/2015

Trade name: LSR/30

(Contd. of page 7)

· 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:
- $\cdot \textit{Bioaccumulative potential No further relevant information available}.$
- \cdot Mobility in soil No further relevant information available.
- \cdot Additional ecological information:
- · General notes:

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.

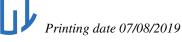
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- **Recommendation:**
 - Dispose of content and/or container in accordance with local, regional, national and/or international regulations.
 - · Uncleaned packagings:
 - · Recommendation:

Dispose of content and/or container in accordance with local, regional, national and/or international regulations • **Recommended cleansing agent:** Water, if necessary with cleansing agents.

UN-Number DOT, IMDG, IATA	UN1760
UN proper shipping name DOT IMDG, IATA	Corrosive liquids, n.o.s. (Potassium hydroxide) CORROSIVE LIQUID, N.O.S. (POTASSIUM HYDROXIDE)
Transport hazard class(es)	
DOT	
CORROSIVE 8	
Class	8 Corrosive substances



Reviewed on 05/19/2015

Trade name: LSR/30

	(Contd. of page
Label	8
IMDG, IATA	
0	
Class	8 Corrosive substances
Label	8
Packing group	
DOT, IMDG, IATA	II
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Corrosive substances
Danger code (Kemler):	80
EMS Number:	F-A,S-B
Segregation groups	Alkalis
Stowage Category	B
Stowage Code	SW2 Clear of living quarters.
Transport in bulk according to Annex	
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 1 L
	On cargo aircraft only: 30 L
IMDG	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN ''Model Regulation'':	UN 1760 CORROSIVE LIQUID, N.O.S. (POTASSIUN
5	HYDROXIDE), 8, II

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture · Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

112-34-5 2-(2-butoxyethoxy)ethanol

111-76-2 2-butoxyethanol

· TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

· Hazardous Air Pollutants

None of the ingredients is listed.

(Contd. on page 10)

US



Reviewed on 05/19/2015

Trade name: LSR/30

Proposition 65 Chemicals known to cause cancer: None of the ingredients is listed. Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed. Chemicals known to cause reproductive toxicity for males: 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. New Jersey Special Hazardous Substance List: 1310-58-3 potassium hydroxide 1310-73-2 sodium hydroxide 107-98-2 1-methoxy-2-propanol 111-76-2 2-butoxyethanol 97-99-4 tetrahydro-2-furylmethanol 616-45-5 2-pyrrolidone 1310-58-3 potassium hydroxide 1310-73-2 sodium hydroxi	Contd. of page 9
None of the ingredients is listed.Chemicals known to cause reproductive toxicity for females: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.New Jersey Special Hazardous Substance List:1310-58-3potassium hydroxide1310-73-2sodium hydroxide107-98-21-methoxy-2-propanol111-76-22-butoxyethanol616-45-52-pyrrolidone1310-58-3potassium hydroxide1310-73-2sodium hydroxide1310-58-3potassium hydroxide1310-73-2sodium hydroxide1310-73-2solium hydroxide1310-73-2<	
Chemicals known to cause reproductive toxicity for females: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.New Jersey Special Hazardous Substance List:1310-58-31310-58-3potassium hydroxide1310-73-2sodium hydroxide107-98-21-methoxy-2-propanol111-76-22-butoxyethanol616-45-52-pyrrolidone1310-58-3potassium hydroxide1310-73-2sodium hydroxide1310-73-2111-76-22-butoxyethanol616-45-52-pyrrolidone1310-73-2sodium hydroxide1310-73-2sodium hydroxide1310-73-2sodi	
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.New Jersey Special Hazardous Substance List:1310-58-3potassium hydroxide1310-73-2sodium hydroxide107-98-21-methoxy-2-propanol111-76-22-butoxyethanol616-45-52-pyrrolidone1310-73-2sodium hydroxide1310-73-21310-73-21310-73-22-butoxyethanol616-45-52-pyrrolidone1310-73-21310-73-2sodium hydroxide1310-73-2111-76-22-butoxyethanol	
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.New Jersey Special Hazardous Substance List:1310-58-3potassium hydroxide1310-73-2sodium hydroxide107-98-21-methoxy-2-propanol111-76-22-butoxyethanol616-45-52-pyrrolidone1310-73-2sodium hydroxide1310-73-2<	
None of the ingredients is listed.Chemicals known to cause developmental toxicity:None of the ingredients is listed.New Jersey Special Hazardous Substance List:1310-58-3potassium hydroxide1310-73-2sodium hydroxide107-98-21-methoxy-2-propanol111-76-22-butoxyethanol97-99-4tetrahydro-2-furylmethanol616-45-52-pyrolidone1310-73-2sodium hydroxide1310-73-2107-98-3potassium hydroxide1310-73-2111-76-22-butoxyethanol111-76-22-butoxyethanol	
Chemicals known to cause developmental toxicity:None of the ingredients is listed.None of the ingredients is listed.New Jersey Special Hazardous Substance List:1310-58-3potassium hydroxide1310-73-2sodium hydroxide107-98-21-methoxy-2-propanol111-76-22-butoxyethanolPennsylvaria Right-to-Know List:97-99-4tetrahydro-2-furylmethanol616-45-52-pyrrolidone1310-58-3potassium hydroxide1310-73-2sodium hydroxide1310-73-2sodium hydroxide107-98-21-methoxy-2-propanol111-76-22-butoxyethanol	
None of the ingredients is listed.New Jersey Special Hazardous Substance List:1310-58-3potassium hydroxide1310-73-2sodium hydroxide107-98-21-methoxy-2-propanol111-76-22-butoxyethanolPennsylvaria Right-to-Know List:97-99-4tetrahydro-2-furylmethanol616-45-52-pyrrolidone1310-73-2sodium hydroxide1310-73-2sodium hydroxide1310-73-2sodium hydroxide107-98-21-methoxy-2-propanol111-76-22-butoxyethanol	
New JerseySpecial Hazardous Substance List:1310-58-3potassium hydroxide1310-73-2sodium hydroxide107-98-21-methoxy-2-propanol111-76-22-butoxyethanolPennsylvama Right-to-Know List:97-99-4tetrahydro-2-furylmethanol616-45-52-pyrrolidone1310-58-3potassium hydroxide1310-73-2sodium hydroxide1310-73-2sodium hydroxide1310-73-2sodium hydroxide111-76-21-methoxy-2-propanol111-76-22-butoxyethanol	
1310-58-3potassium hydroxide1310-73-2sodium hydroxide107-98-21-methoxy-2-propanol111-76-22-butoxyethanolPennsylvania Right-to-Know List:97-99-4tetrahydro-2-furylmethanol616-45-52-pyrrolidone1310-58-3potassium hydroxide1310-73-2sodium hydroxide107-98-21-methoxy-2-propanol111-76-22-butoxyethanol	
1310-73-2sodium hydroxide107-98-21-methoxy-2-propanol111-76-22-butoxyethanolPennsylvania Right-to-Know List:97-99-4tetrahydro-2-furylmethanol616-45-52-pyrrolidone1310-58-3potassium hydroxide1310-73-2sodium hydroxide107-98-21-methoxy-2-propanol111-76-22-butoxyethanol	CO, R1
111-76-22-butoxyethanolPennsylvaria Right-to-Know List:97-99-4tetrahydro-2-furylmethanol616-45-52-pyrrolidone1310-58-3potassium hydroxide1310-73-2sodium hydroxide107-98-21-methoxy-2-propanol111-76-22-butoxyethanol	CO, R1
Pennsylvania Right-to-Know List:97-99-4tetrahydro-2-furylmethanol616-45-52-pyrrolidone1310-58-3potassium hydroxide1310-73-2sodium hydroxide107-98-21-methoxy-2-propanol111-76-22-butoxyethanol	F3
97-99-4 tetrahydro-2-furylmethanol 616-45-5 2-pyrrolidone 1310-58-3 potassium hydroxide 1310-73-2 sodium hydroxide 107-98-2 1-methoxy-2-propanol 111-76-2 2-butoxyethanol	CA, F2
616-45-5 2-pyrrolidone 1310-58-3 potassium hydroxide 1310-73-2 sodium hydroxide 107-98-2 1-methoxy-2-propanol 111-76-2 2-butoxyethanol	I
1310-58-3 potassium hydroxide 1310-73-2 sodium hydroxide 107-98-2 1-methoxy-2-propanol 111-76-2 2-butoxyethanol	
1310-73-2 sodium hydroxide 107-98-2 1-methoxy-2-propanol 111-76-2 2-butoxyethanol	
107-98-2 1-methoxy-2-propanol 111-76-2 2-butoxyethanol	
111-76-2 2-butoxyethanol	
102-71-6 Triethanolamine	
Pennsylvania Special Hazardous Substance List:	
1310-58-3 potassium hydroxide	E
1310-73-2 sodium hydroxide	E

· EPA (Environmental Protection Agency)

111-76-2 2-butoxyethanol

· TLV (Threshold Limit Value established by ACGIH)

111-76-2 2-butoxyethanol

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



· Signal word Danger

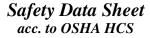
• *Hazard-determining components of labeling:* N-cyclohexyl-2-pyrrolidone 2-pyrrolidone potassium hydroxide

(Contd. on page 11)

NL

AЗ

US





Reviewed on 05/19/2015

Trade name: LSR/30

	(Contd. of page 10)
sodium hydroxide	
· Hazard statements	5
H227 Combustible	liquid.
H302 Harmful if s	wallowed.
H314 Causes sever	re skin burns and eye damage.
· Precautionary stat	
P210	Keep away from flames and hot surfaces. – No smoking.
P260	Do not breathe dusts or mists.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves / eye protection / face protection.
P301+P312	If swallowed: Call a poison center/doctor if you feel unwell.
P301+P330+P331	I If swallowed: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	3 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/
	shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	8 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present
	and easy to do. Continue rinsing.
P321	Specific treatment (see on this label).
P337+P313	If eye irritation persists: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use for extinction: CO2, powder or water spray.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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. California AQMD rule 1171 compliant when used as a dehazer for the removal of cured inks / stains

- Department issuing SDS: Environment protection department.
- · Contact: Mr. Collins
- · Date of preparation / last revision 07/08/2019 / -
- Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

- DOT: US Department of Transportation IATA: International Air Transport Association
- ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINECS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- 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
- Flam. Liq. 4: Flammable liquids Category 4
- Acute Tox. 4: Acute toxicity Category 4

(Contd. on page 12)

US



Trade name: LSR/30

Skin Corr. 1A: Skin corrosion/irritation – Category 1A Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Reviewed on 05/19/2015

(Contd. of page 11)

US –