

## Safety Data Sheet



### Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

#### 1.1 Product identifier

<b>Product Name</b>	● <b>Liquid Caustic Soda, 50%</b>
<b>Synonyms</b>	● Alkali Hydroxide; Caustic Soda; Sodium Hydroxide
<b>CAS Number</b>	● 1310-73-2
<b>Product Code</b>	● 70008
<b>EC Number</b>	● 215-185-5
<b>Molecular Formula</b>	● :H 1:O 1:Na 1:

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

<b>Relevant identified use(s)</b>	● Industrial Use
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#### 1.3 Details of the supplier of the safety data sheet

<b>Manufacturer</b>	● Air Liquide 2700 Post Oak Blvd. Houston, TX 77056 United States www.us.airliquide.com sds@airliquide.com
<b>Telephone (Technical)</b>	● 713-896-2896
<b>Telephone (Technical)</b>	● 800-819-1704

#### 1.4 Emergency telephone number

<b>Manufacturer</b>	● 800-424-9300 - CHEMTREC
<b>Manufacturer</b>	● +1 703-527-3887 - Outside United States

### Section 2: Hazards Identification

#### EU/EEC

According to Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]  
According to EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

#### 2.1 Classification of the substance or mixture

<b>CLP</b>	● Skin Corrosion 1A - H314
<b>DSD/DPD</b>	● Corrosive (C) R35

#### 2.2 Label Elements

CLP

**DANGER**



**Hazard statements** ● H314 - Causes severe skin burns and eye damage

### Precautionary statements

- Prevention** ● P260 - Do not breathe mist/vapours/spray.  
 P264 - Wash thoroughly after handling.  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- Response** ● P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P321 - Specific treatment, see supplemental first aid information.  
 P363 - Wash contaminated clothing before reuse.  
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 - Immediately call a POISON CENTER or doctor/physician.  
 P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

- Storage/Disposal** ● P405 - Store locked up.  
 P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

### DSD/DPD



**Risk phrases** ● R35 - Causes severe burns.

- Safety phrases** ● S36 - Wear suitable protective clothing.  
 S37 - Wear suitable gloves.  
 S39 - Wear eye/face protection.  
 S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

## 2.3 Other Hazards

**CLP** ● According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.

**DSD/DPD** ● This product is considered dangerous according to the European Directive 67/548/EEC.

## United States (US)

According to OSHA 29 CFR 1910.1200 HCS

### 2.1 Classification of the substance or mixture

**OSHA HCS 2012** ● Skin Corrosion 1B - H314  
 Serious Eye Damage 1 - H318

### 2.2 Label elements

**OSHA HCS 2012**

**DANGER**



**Hazard statements** ● Causes severe skin burns and eye damage. - H314  
 Causes serious eye damage - H318

### Precautionary statements

- Prevention** ● Do not breathe mist/vapours/spray. - P260  
Wash thoroughly after handling. - P264  
Wear protective gloves/protective clothing/eye protection/face protection. - P280
- Response** ● IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. - P304+P340  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. - P303+P361+P353  
Specific treatment, see supplemental first aid information. - P321  
Wash contaminated clothing before reuse. - P363  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. - P305+P351+P338  
Immediately call a POISON CENTER or doctor/physician. - P310  
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. - P301+P330+P331
- Storage/Disposal** ● Store locked up. - P405  
Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. - P501

## 2.3 Other hazards

### OSHA HCS 2012

- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

## Canada

### According to WHMIS

## 2.1 Classification of the substance or mixture

### WHMIS

- Corrosive - E

## 2.2 Label elements

### WHMIS



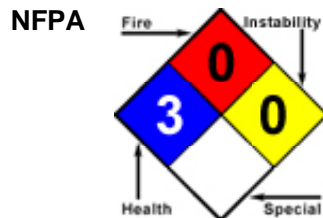
- Corrosive - E

## 2.3 Other hazards

### WHMIS

- In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

## 2.4 Other information



## Section 3 - Composition/Information on Ingredients

### 3.1 Substances

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments

Sodium hydroxide	CAS:1310-73-2 EC Number:215-185-5	50%	NDA	EU DSD/DPD: Annex I - C R35 EU CLP: Annex VI - Skin Corr. 1A, H314 OSHA HCS 2012: Skin Corr. 1A; Eye Dam. 1	NDA
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## 3.2 Mixtures

- Material does not meet the criteria of a mixture in accordance with Regulation (EC) No 1272/2008.

## Section 4 - First Aid Measures

### 4.1 Description of first aid measures

- Inhalation**
- Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. Do not use mouth-to-mouth method if victim inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention immediately.
- Skin**
- For minor skin contact, avoid spreading material on unaffected skin. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Remove and isolate contaminated clothing. Get medical attention immediately.
- Eye**
- Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye. Get medical attention immediately.
- Ingestion**
- If swallowed, rinse mouth with water (only if the person is conscious) Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Give plenty of water to drink. Do not use mouth-to-mouth method if victim ingested the substance. Obtain medical attention immediately if ingested.

### 4.2 Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

### 4.3 Indication of any immediate medical attention and special treatment needed

- Notes to Physician**
- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

## Section 5 - Firefighting Measures

### 5.1 Extinguishing media

- Suitable Extinguishing Media**
- LARGE FIRES: Dry chemical, CO<sub>2</sub>, alcohol-resistant foam or water spray.  
SMALL FIRES: Dry chemical, CO<sub>2</sub> or water spray.
- Unsuitable Extinguishing Media**
- No data available

### 5.2 Special hazards arising from the substance or mixture

- Unusual Fire and Explosion Hazards**
- Containers may explode when heated.  
Acid reacts with most metals to release hydrogen gas, which can form explosive mixtures with air.
- Hazardous Combustion Products**
- Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive fumes.

### 5.3 Advice for firefighters

- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.  
Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.

Wear positive pressure self-contained breathing apparatus (SCBA).  
 SMALL FIRES: Move containers from fire area if you can do it without risk.  
 Runoff from fire control may cause pollution.

## Section 6 - Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

#### Personal Precautions

- Ventilate enclosed areas. Do not walk through spilled material. Wear appropriate personal protective equipment, avoid direct contact. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

#### Emergency Procedures

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Do not get water inside container.

### 6.2 Environmental precautions

- Prevent entry into waterways, sewers, basements or confined areas.

### 6.3 Methods and material for containment and cleaning up

#### Containment/Clean-up Measures

- Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.  
 Dike to collect large liquid spills.  
 A vapor suppressing foam may be used to reduce vapors.  
 Use water spray to reduce vapors or divert vapor cloud drift.  
 Neutralize residue with neutralizing agent appropriate for acidic materials. Test area with litmus paper to ensure neutralization is complete.

### 6.4 Reference to other sections

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

## Section 7 - Handling and Storage

### 7.1 Precautions for safe handling

#### Handling

- Handle and open container with care. Use only with adequate ventilation. Use caution when combining with water; DO NOT add water to corrosive liquid, ALWAYS add corrosive liquid to water while stirring to prevent release of heat, steam and fumes. Wear appropriate personal protective equipment, avoid direct contact. Do not breathe mist, vapours, spray. Do not get in eyes, on skin, or on clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage

- Keep container tightly closed. Store in a cool, dry, well-ventilated place. Keep away from incompatible materials. Inspect all incoming containers before storage, to ensure containers are properly labeled and not damaged.

### 7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

## Section 8 - Exposure Controls/Personal Protection

### 8.1 Control parameters

Exposure Limits/Guidelines						
	Result	ACGIH	Canada Ontario	Canada Quebec	China	France
Sodium hydroxide (1310-73-2)	Ceilings	2 mg/m <sup>3</sup> Ceiling	2 mg/m <sup>3</sup> Ceiling	2 mg/m <sup>3</sup> Ceiling	2 mg/m <sup>3</sup> Ceiling [MAC]	Not established
	TWAs	Not established	Not established	Not established	Not established	2 mg/m <sup>3</sup> TWA [VME]

**Exposure Limits/Guidelines (Con't.)**

	Result	Ireland	Israel	NIOSH	OSHA	OSHA Vacated
Sodium hydroxide (1310-73-2)	STELs	2 mg/m3 STEL	Not established	Not established	Not established	Not established
	Ceilings	Not established	2 mg/m3 Ceiling	2 mg/m3 Ceiling	Not established	2 mg/m3 Ceiling
	TWAs	Not established	Not established	Not established	2 mg/m3 TWA	Not established

**Exposure Limits/Guidelines (Con't.)**

	Result	Portugal	Spain	Sweden
Sodium hydroxide (1310-73-2)	Ceilings	2 mg/m3 Ceiling [VLE-CM]	Not established	2 mg/m3 CLV (inhalable dust)
	STELs	Not established	2 mg/m3 STEL [VLA-EC]	Not established
	TWAs	Not established	Not established	1 mg/m3 LLV (inhalable dust)

**8.2 Exposure controls****Engineering Measures/Controls**

- 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.

**Personal Protective Equipment****Respiratory**

- Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

**Eye/Face**

- Wear chemical splash safety goggles.

**Skin/Body**

- Wear appropriate gloves.

**Environmental Exposure Controls**

- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

**Key to abbreviations**

ACGIH = American Conference of Governmental Industrial Hygiene

LLV = Limit Level Value is the exposure limit for 8-hour work day

MAK = Maximale Arbeitsplatz Konzentration is the maximum permissible concentration

NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

STEL = Short Term Exposure Limits are based on 15-minute exposures

TWA EV = Time-Weighted Average Exposure Value

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

**Section 9 - Physical and Chemical Properties****9.1 Information on Physical and Chemical Properties**

<b>Material Description</b>			
Physical Form	Liquid	Appearance/Description	Colorless solution with no odor.
Color	Colorless	Odor	Data lacking
Odor Threshold	Data lacking		
<b>General Properties</b>			
Boiling Point	140 C(284 F)	Melting Point	12 C(53.6 F)
Decomposition Temperature	Data lacking	pH	14
Specific Gravity/Relative Density	1.53 Water=1	Water Solubility	Soluble
Viscosity	Data lacking	Explosive Properties	Data lacking

Oxidizing Properties:	Data lacking		
<b>Volatility</b>			
Vapor Pressure	Data lacking	Vapor Density	Data lacking
Evaporation Rate	Data lacking		
<b>Flammability</b>			
Flash Point	Not relevant	UEL	Not relevant
LEL	Not relevant	Autoignition	Not relevant
Flammability (solid, gas)	Data lacking		
<b>Environmental</b>			
Octanol/Water Partition coefficient	Data lacking		

## 9.2 Other Information

- No additional physical and chemical parameters noted.

## Section 10: Stability and Reactivity

### 10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

- Stable

### 10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

### 10.4 Conditions to avoid

- Excess heat.

### 10.5 Incompatible materials

- Sodium Hydroxide reacts vigorously, violently or explosively with strong acids, nitroaromatic nitroparaffin, organohalogen compounds, glycols, and organic peroxides. Sodium Hydroxide will react violently with water, generating a significant amount of heat and causing a dangerous spattering of Sodium Hydroxide. Contact with common metals, such as aluminum, tin, copper, brass or zinc and sodium tetraborate can result in the formation of flammable hydrogen gas. Sodium Hydroxide can form spontaneously flammable chemicals upon contact with dichloroethylene, trichloroethylene, or tetrachloroethane. When in contact with acetaldehyde, acrolein or acrylonitrile, Sodium Hydroxide will cause these materials to violently polymerize.

### 10.6 Hazardous decomposition products

- Products of thermal decomposition include toxic oxides of sodium.

## Section 11 - Toxicological Information

### 11.1 Information on toxicological effects

Components		
Sodium hydroxide (50%)	1310-73-2	<b>Irritation:</b> Eye-Rabbit • 1 mg 24 Hour(s) • Severe irritation; Skin-Rabbit • 500 mg 24 Hour(s) • Severe irritation; <b>Mutagen:</b> Cytogenetic analysis • Hamster • Lung (Somatic cell) • 10 mmol/L

GHS Properties	Classification
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<b>Acute toxicity</b>	<b>EU/CLP</b> • Classification criteria not met <b>OSHA HCS 2012</b> • Classification criteria not met
<b>Aspiration Hazard</b>	<b>EU/CLP</b> • Classification criteria not met <b>OSHA HCS 2012</b> • Classification criteria not met
<b>Carcinogenicity</b>	<b>EU/CLP</b> • Classification criteria not met <b>OSHA HCS 2012</b> • Classification criteria not met
<b>Germ Cell Mutagenicity</b>	<b>EU/CLP</b> • Classification criteria not met <b>OSHA HCS 2012</b> • Classification criteria not met
<b>Skin corrosion/Irritation</b>	<b>EU/CLP</b> • Skin Corrosion 1A <b>OSHA HCS 2012</b> • Skin Corrosion 1B
<b>Skin sensitization</b>	<b>EU/CLP</b> • Classification criteria not met <b>OSHA HCS 2012</b> • Classification criteria not met
<b>STOT-RE</b>	<b>EU/CLP</b> • Classification criteria not met <b>OSHA HCS 2012</b> • Classification criteria not met
<b>STOT-SE</b>	<b>EU/CLP</b> • Classification criteria not met <b>OSHA HCS 2012</b> • Classification criteria not met
<b>Toxicity for Reproduction</b>	<b>EU/CLP</b> • Classification criteria not met <b>OSHA HCS 2012</b> • Classification criteria not met
<b>Respiratory sensitization</b>	<b>EU/CLP</b> • Classification criteria not met <b>OSHA HCS 2012</b> • Classification criteria not met
<b>Serious eye damage/Irritation</b>	<b>EU/CLP</b> • Classification criteria not met <b>OSHA HCS 2012</b> • Serious Eye Damage 1

## Potential Health Effects

### Inhalation

#### Acute (Immediate)

- May cause corrosive burns - irreversible damage.

#### Chronic (Delayed)

- Repeated or prolonged exposure to corrosive fumes may cause bronchial irritation with chronic cough.

### Skin

#### Acute (Immediate)

- Causes severe skin burns and eye damage.

#### Chronic (Delayed)

- Repeated or prolonged exposure to corrosive materials will cause dermatitis.

### Eye

#### Acute (Immediate)

- Causes serious eye damage.

#### Chronic (Delayed)

- Repeated or prolonged exposure to corrosive materials or fumes may cause conjunctivitis.

### Ingestion

#### Acute (Immediate)

- May cause irreversible damage to mucous membranes.

#### Chronic (Delayed)

- Repeated or prolonged exposure to corrosive materials or fumes may cause gastrointestinal disturbances.

## Section 12 - Ecological Information

### 12.1 Toxicity

- Material data lacking.

### 12.2 Persistence and degradability

- Material data lacking.

**12.3 Bioaccumulative potential**

- Material data lacking.

**12.4 Mobility in Soil**

- Material data lacking.

**12.5 Results of PBT and vPvB assessment**

- No PBT and vPvB assessment has been conducted.

**12.6 Other adverse effects**

- No studies have been found.

**Section 13 - Disposal Considerations****13.1 Waste treatment methods****Product waste**

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**Packaging waste**

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**Section 14 - Transport Information**

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	UN1824	Sodium hydroxide solution	8	II	NDA
TDG	UN1824	SODIUM HYDROXIDE SOLUTION	8	II	NDA
IMO/IMDG	UN1824	SODIUM HYDROXIDE SOLUTION	8	II	NDA
IATA/ICAO	UN1824	Sodium hydroxide solution	8	II	NDA

**14.6 Special precautions for user**

- None known.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

- Not relevant.

**14.8 Other information**

- DOT** • Sodium Hydroxide has a reportable quantity of 1000 lbs (454 kg) as listed in Appendix A to 49 CFR 172.101.

**Section 15 - Regulatory Information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****SARA Hazard Classifications**

- Acute

State Right To Know				
Component	CAS	MA	NJ	PA
Sodium hydroxide	1310-73-2	Yes	Yes	Yes

Inventory						
Component	CAS	Canada DSL	Canada NDSL	China	EU EINECS	EU ELNICS
Sodium hydroxide	1310-73-2	Yes	No	Yes	Yes	No

Inventory (Con't.)		
Component	CAS	TSCA
Sodium hydroxide	1310-73-2	Yes

## Canada

### Labor

#### Canada - WHMIS - Classifications of Substances

- Sodium hydroxide

1310-73-2

E (including 0.04% in aqueous solution, 0.08%, 0.4% in aqueous solution, 2%, 2.5%, 4% in aqueous solution, 5%, 10%, 16%, 20%, 40%, 50% in aqueous solution, 8.7N)

#### Canada - WHMIS - Ingredient Disclosure List

- Sodium hydroxide

1310-73-2

1 %

### Environment

#### Canada - CEPA - Priority Substances List

- Sodium hydroxide

1310-73-2

Not Listed

## China

### Environment

#### China - Ozone Depleting Substances - First Schedule

- Sodium hydroxide

1310-73-2

Not Listed

#### China - Ozone Depleting Substances - Second Schedule

- Sodium hydroxide

1310-73-2

Not Listed

#### China - Ozone Depleting Substances - Third Schedule

- Sodium hydroxide

1310-73-2

Not Listed

### Other

#### China - Annex I & II - Controlled Chemicals Lists

- Sodium hydroxide

1310-73-2

Not Listed

#### China - Dangerous Goods List

- Sodium hydroxide

1310-73-2

(solid or solution)

#### China - Export Control List - Part I Chemicals

- Sodium hydroxide

1310-73-2

Not Listed

## Europe

### Other

#### EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification

- Sodium hydroxide

1310-73-2

C; R35

#### EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits

5%≤C: C; R:35 2%≤C&lt;5%:

• Sodium hydroxide	1310-73-2	C; R:34 0.5%≤C<2%: Xi; R:36/38
<b>EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling</b>		
• Sodium hydroxide	1310-73-2	C R:35 S:(1/2)-26-37/39-45
<b>EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations</b>		
• Sodium hydroxide	1310-73-2	Not Listed
<b>EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases</b>		
• Sodium hydroxide	1310-73-2	S:(1/2)-26-37/39-45

## Germany

### Environment

#### Germany - TA Luft - Types and Classes

• Sodium hydroxide	1310-73-2	Not Listed
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#### Germany - Water Classification (VwVwS) - Annex 1

• Sodium hydroxide	1310-73-2	Not Listed
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#### Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes

• Sodium hydroxide	1310-73-2	ID Number 142, hazard class 1 - low hazard to waters (footnote 8)
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#### Germany - Water Classification (VwVwS) - Annex 3

• Sodium hydroxide	1310-73-2	Not Listed
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### Other

#### Germany - Specifically Regulated Chemicals in TRGS

• Sodium hydroxide	1310-73-2	Not Listed
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## Portugal

### Other

#### Portugal - Prohibited Substances

• Sodium hydroxide	1310-73-2	Not Listed
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## United Kingdom

### Environment

#### United Kingdom - Pollution Inventory - Schedule 1 - Thresholds for Releases to Air

• Sodium hydroxide	1310-73-2	Not Listed
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### Other

#### United Kingdom - Workplace Exposure Limits (WELs) - Substances in Review

• Sodium hydroxide	1310-73-2	Not Listed
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#### United Kingdom - List of Dangerous Substances in Water

• Sodium hydroxide	1310-73-2	Not Listed
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## United States

### Labor

#### U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

• Sodium hydroxide	1310-73-2	Not Listed
<b>U.S. - OSHA - Specifically Regulated Chemicals</b>		
• Sodium hydroxide	1310-73-2	Not Listed

**Environment****U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants**

• Sodium hydroxide	1310-73-2	Not Listed
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**U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities**

• Sodium hydroxide	1310-73-2	1000 lb final RQ; 454 kg final RQ
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**U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities**

• Sodium hydroxide	1310-73-2	Not Listed
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**U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs**

• Sodium hydroxide	1310-73-2	Not Listed
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**U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs**

• Sodium hydroxide	1310-73-2	Not Listed
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**U.S. - CERCLA/SARA - Section 313 - Emission Reporting**

• Sodium hydroxide	1310-73-2	Not Listed
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**U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing**

• Sodium hydroxide	1310-73-2	Not Listed
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**United States - California****Environment****U.S. - California - Proposition 65 - Carcinogens List**

• Sodium hydroxide	1310-73-2	Not Listed
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**U.S. - California - Proposition 65 - Developmental Toxicity**

• Sodium hydroxide	1310-73-2	Not Listed
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**U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)**

• Sodium hydroxide	1310-73-2	Not Listed
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**U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)**

• Sodium hydroxide	1310-73-2	Not Listed
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**U.S. - California - Proposition 65 - Reproductive Toxicity - Female**

• Sodium hydroxide	1310-73-2	Not Listed
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**U.S. - California - Proposition 65 - Reproductive Toxicity - Male**

• Sodium hydroxide	1310-73-2	Not Listed
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**United States - Pennsylvania****Labor****U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List**

• Sodium hydroxide	1310-73-2	
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**U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances**

• Sodium hydroxide

1310-73-2

Not Listed

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## 15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

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### Section 16 - Other Information

**Last Revision Date**

- 09/September/2014

**Preparation Date**

- 09/September/2014

**Disclaimer/Statement of Liability**

- To the best of Air Liquide's knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either express or implied, are provided. The information contained herein relates only to this specific product. If this gas mixture is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.

**Key to abbreviations**

NDA = No data available

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