


KNGMED Medikal Ltd. Şti.	Sodalime MSDS Product Code: 7600064-5/20	Form No: 127 Date: 17.12.2012 Review Date: 03.11.2017 Rev. 1.7
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# MATERIAL SAFETY DATA SHEET

SODALİME

according to Regulation (EC) No. 1907/2006

<b>SECTION: 1</b> <b>Identification of the substance/mixture and of the company/undertaking</b>	
<b>1.1</b> <b>Product identifier</b>	Catalog No : 7600064-5/20 Product Name : Sodalime, (KNGSORB, CO2 absorber – CO2 absorbent) <b>SODA LİME, Co2 Absorbantı</b> CAS No :1305-62-0
<b>1.2</b> <b>Relevant identified uses of the substance or mixture and uses advised against</b>	In closed circuit anesthesia systems and Oxygen treatment systems to absorb acidic gases.
<b>1.3</b> <b>Details of the supplier of the safety data sheet</b>	Firma Adı: KNGMED Medikal Sağ. Ltd. Şti. Address :10.001 Sok. No: 28/A-10 Çınar San. Sit. Ulukent, İzmir, TURKIYE 35630 Tel : +902328334262 Faks : +902328334263 Web : <a href="http://www.kngmed.com">www.kngmed.com</a> Mail : kng.info@yahoo.com & info@kngmed.com
<b>1.4</b> <b>Emergency telephone number</b>	Telephone Number : +902328334262
<b>SECTION2.</b> <b>Hazards identification</b>	
<b>2.1</b> <b>Classification of the substance or mixture</b>	Classification (REGULATION (EC) No 1272/2008)  Corrosive to metals, Category 1, H290 Serious eye damage, Category 1, H318 Specific target organ toxicity - single exposure, Category 3, Respiratory system, H335
<b>2.2 Label elements</b>	<b>Labelling</b> (REGULATION (EC) No 1272/2008)  Hazard pictograms   Signal word Danger

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	<p>Hazard statements H290 May be corrosive to metals. H318 Causes serious eye damage. H335 May cause respiratory irritation. Precautionary statements Prevention P280 Wear eye protection. Response P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P313 Get medical advice/ attention.</p> <p><b>Reduced labelling (≤125 ml)</b> Hazard pictograms</p>  <p>Signal word Danger Hazard statements H318 Causes serious eye damage.</p> <p>Precautionary statements P280 Wear eye protection. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P313 Get medical advice/ attention. Contains: Calcium hydroxide</p>		
<b>2.3 Other hazards</b>	None known.		
<b>SECTION 3. Composition/information on ingredients</b>			
<b>Chemical nature</b>	Mixture of inorganic and organic compounds		
<b>3.1 Substance</b>	Not applicable		
<b>3.2 Mixture</b>	<b>Hazardous components (REGULATION (EC) No 1272/2008)</b>		
	<p>CAS NO: 1305-62-0 * Calcium Hydroxide (≥ 50 % - ≤ 100 % ) PBT/vPvB: Not applicable for inorganic substances</p>	<p>Registration number PBT/vPvB: Not applicable for inorganic substances</p>	<p>Classification Skin irritation, Category 2, H315 Serious eye damage, Category 1, H318 Specific target organ toxicity - single exposure, Category 3, H335</p>

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	1310-73-2 * Sodium Hydroxide ( $\geq 2$ % - $< 4$ % )	PBT/vPvB: Not applicable for inorganic substances	Corrosive to metals, Category 1, H290 Skin corrosion, Category 1A, H314
	* There is no registration number for this item; because this substance or its use is exempt from registration in accordance with REACH Regulation (EC) No 1907/2006, does not require an annual registration, or is scheduled for a later registration deadline.		
<b>SECTION 4. First aid measures</b>			
<b>4.1 Description of first aid measures</b>	<p>After inhalation: fresh air.</p> <p>In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.</p> <p>After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.</p> <p>After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.</p>		
<b>4.2 Most important symptoms and effects, both acute and delayed</b>	<p>Collapse</p> <p>Irritation and corrosion, Cough, Shortness of breath</p> <p>Risk of serious damage to eyes.</p>		
<b>4.3 Indication of any immediate medical attention and special treatment needed</b>	No information available.		
<b>SECTION 5. Firefighting measures</b>			
<b>5.1 Extinguishing media</b>	<p>Use extinguishing measures that are appropriate to local circumstances and the surrounding environment</p> <p>For this substance/mixture no limitations of extinguishing agents are given.</p>		
<b>5.2 Special hazards arising from the substance or mixture</b>	<p>Not combustible .</p> <p>Ambient fire may liberate hazardous vapours.</p>		
<b>5.3 Advice for firefighters</b>	<p>In the event of fire, wear self-contained breathing apparatus.</p> <p>Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system</p>		
<b>SECTION 6. Accidental release measures</b>			
<b>6.1 Personal precautions, protective equipment and emergency procedures</b>			
<b>6.1.1 Advice for non-</b>	<p>Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation.</p> <p>Evacuate the danger area, observe emergency procedures, consult an expert.</p>		

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<b>emergency personnel:</b>				
<b>6.1.2 Advice for emergency responders:</b>	Protective equipment see section 8.			
<b>6.2 Environmental precautions</b>	Do not let product enter drains			
<b>6.3 Methods and materials for containment and cleaning up</b>	Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.			
<b>6.4 Reference to other sections</b>	Indications about waste treatment see section 13.			
<b>SECTION 7. Handling and storage</b>				
<b>7.1 Precautions for safe handling</b>				
<b>7.1.1 Advice on safe handling</b>	Observe label precautions.			
<b>7.1.2 Hygiene measures</b>	Change contaminated clothing. Wash hands after working with substance.			
<b>7.2 Conditions for safe storage, including any incompatibilities</b>	Requirements for storage areas and containers: No metal containers. Storage conditions: Tightly closed. Dry. Recommended storage temperature: see product label.			
<b>7.3 Specific end use(s)</b>	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.			
<b>SECTION 8. Exposure controls/personal protection</b>				
<b>8.1 Control parameters</b>	<b>Components with workplace control parameters</b> Components			
	<b>Basis</b>	<b>Value</b>	<b>Threshold Limits</b>	<b>Remarks</b>
	Calcium Hydroxide (1305-62-0)	EU ELV	Time Weighted Average (TWA): 5 mg/m <sup>3</sup>	
	Sodium Hydroxide(1310-73-2)	EH40 WEL	Time Weighted Average (TWA): 2 mg/m <sup>3</sup>	

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	<b>Recommended monitoring procedures</b>																					
	Methods for measurement of the workplace atmosphere have to correspond to the requirements of norms DIN EN 482 and DIN EN 689.																					
<b>8.2 Exposure controls</b>																						
<b>8.2.1 Engineering measures</b>	Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. See section 7.1.																					
<b>8.2.2 Individual protection measures</b>	<p>Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.</p> <p>Eye/face protection :Tightly fitting safety goggles</p> <p>Hand protection :</p> <p>Gloves:</p> <p>Glove material: Nitrile rubber Glove thickness: 0.11 mm</p> <p>Respiratory protection</p> <p>Required when dusts are generated. Recommended Filter type: Filter P 2 (acc. to DIN 3181) for solid and liquid particles of harmful substances</p>																					
<b>8.2.3 Environmental exposure controls</b>	Do not let product enter drains.																					
<b>SECTION 9. Physical and chemical properties</b>																						
<b>9.1 Information on basic physical and chemical properties</b>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;"><i>Sight</i></td> <td style="width: 40%;">: White and Solid</td> </tr> <tr> <td><i>Color Indicate</i></td> <td>: White to Violet</td> </tr> <tr> <td><i>Odour</i></td> <td>: Odourless</td> </tr> <tr> <td><i>Density</i></td> <td>: 2.0 g/cm<sup>3</sup></td> </tr> <tr> <td><i>Molecular Formula</i></td> <td>: NA</td> </tr> <tr> <td><i>pH</i></td> <td>: 12-14 (Alkaline)</td> </tr> <tr> <td><i>Water solubility</i></td> <td>: insoluble</td> </tr> <tr> <td> <i>Melting Point</i></td> <td> :No information available.</td> </tr> <tr> <td><i>Boiling Point</i></td> <td>: No information available.</td> </tr> </table>				<i>Sight</i>	: White and Solid	<i>Color Indicate</i>	: White to Violet	<i>Odour</i>	: Odourless	<i>Density</i>	: 2.0 g/cm <sup>3</sup>	<i>Molecular Formula</i>	: NA	<i>pH</i>	: 12-14 (Alkaline)	<i>Water solubility</i>	: insoluble	 <i>Melting Point</i>	 :No information available.	<i>Boiling Point</i>	: No information available.
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	<p><i>Flash Point</i> : No information available.</p> <p><i>Flammability (Solid, Gas)</i> : No information available..</p> <p><i>Upper explosion limit</i> : No information available</p> <p><i>Vapour pressure</i> : No information available</p> <p><i>Relative vapour density</i> :No information available</p> <p><i>Partition coefficient: n-octanol/water</i> :No information available</p> <p><i>Auto-ignition temperature</i> : No information available.</p> <p><i>Decomposition temperature</i> : No information available.</p> <p><i>Viscosity, dynamic</i> : No information available.</p> <p><i>Explosive properties</i> :Not classified as explosive.</p> <p><i>Oxidizing properties</i> :None</p> <p><i>Corrosion</i> :May be corrosive to metals.</p>
<b>SECTION10 Stability and reactivity</b>	The product is stable. Calcium and Sodium Carbonate in contact with air. Avoid contact with chloroform and trichlorethylene. Heats up in contact with acid.
<b>SECTION 11. Toxicological information</b>	<p>Sodyum Hidroksit      LD(10)=500mg/kg rbt Kalsiyum Hidroksit      LD(50)=7.3g/kg rat</p> <p>Acute oral toxicitySymptoms: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.</p> <p>Acute inhalation toxicity Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of respiratory tract</p> <p>Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of respiratory tract</p> <p>Acute dermal toxicity This information is not available.</p> <p>Skin irritation Rabbit Result: No skin irritation OECD Test Guideline 404</p> <p>Eye irritation Rabbit Result: Causes serious eye damage. OECD Test Guideline 405</p> <p>Mixture causes serious eye damage. Necrosis Risk of blindness!</p> <p>Sensitisation This information is not available.</p> <p>Germ cell mutagenicity This information is not available.</p>

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	<p>Carcinogenicity: This information is not available.</p> <p>Reproductive toxicity: This information is not available</p> <p>Teratogenicity: This information is not available</p> <p>Specific target organ toxicity - single exposure: Mixture may cause respiratory irritation.</p> <p>Target Organs: Respiratory system</p> <p>Specific target organ toxicity - repeated exposure: This information is not available.</p> <p>Aspiration hazard: This information is not available.</p>	
<b>SECTION 12</b> Ecological information	<p>No risk of long-term effects on plant and animal life. It turns into minerals that occur naturally.</p> <p><b>12.1 Toxicity</b> No information available.  <b>12.2 Persistence and degradability</b> No information available.  <b>12.3 Bioaccumulative potential</b> No information available.  <b>12.4 Mobility in soil</b> No information available.  <b>12.5 Results of PBT and vPvB assessment</b> Substance(s) in the mixture do(es) not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII, or a PBT/vPvB assessment was not conducted.  <b>12.6 Other adverse effects</b>  Additional ecological information Harmful effect due to pH shift. Forms corrosive mixtures with water even if diluted.</p>	
<b>SECTION 13</b> Disposal considerations	<p>Notice Directive on waste 2008/98/EC.  Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.</p>	
<b>SECTION 14</b> Transport information	<p>According to ADR / RID, DOT, IMO / IMDG, ICAO / IATA classification, it does not present any danger during transportation by road, air and sea.</p>	
<b>SECTION 15</b> Regulatory information	<p>EU regulations Major Accident Hazard Legislation</p> <p>Occupational restrictions</p> <p>Regulation (EC) No 1005/2009 on substances that deplete the ozone layer</p>	<p>SEVESO III Not applicable</p> <p>Take note of Dir 94/33/EC on the protection of people at work. not regulated</p>

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	Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC	not regulated
	Substances of very high concern (SVHC)	This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of $\geq 0.1$ % (w/w).

<b>SECTION16 Other information</b>	This product is also suitable for use in anesthetic equipment, hyperbaric systems, breathing apparatus, diving equipment, air purifying systems and the general industry.  H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage. H335 May cause respiratory irritation.
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<b>Labelling</b>	
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03.11.2017 GBF-2074 / H.V. K