 <b>SITARA</b> CHEMICAL INDUSTRIES LTD	<b>SAFETY DATA SHEET (SDS)</b>	
	<b>HYDRATED LIME</b>	
	Document #: <b>SCIL-SDS-12</b>	Issue Date: <b>01-Jan-23</b>
	Revision: <b>0</b>	Next Rev: <b>31-Dec-27</b>

## 1. IDENTIFICATION

- 1.1 Product identifier:** Hydrated Lime  
**Synonym(s):** Calcium hydroxide, Calcium hydrate, Calcium hydroxide  
**Reach No.** 01-2119475151-45-XXXX  
**CAS No.** 1305-62-0  
**EC No.** 215-279-6
- 1.2 Recommended use:** Laboratory chemicals, Manufacture of substances, pH-adjustment.
- 1.3 Details of the supplier of the Safety data sheet Manufacturer**  
**Company Name** Sitara Chemical Industries Ltd.  
**Address:** 32-K.M, Sheikhpura Road, Faisalabad.  
**Telephone Number:** (+92) 041-4689141-5  
**Emergency Number** (+92) 041-4689141-5 (Ext.1161)  
**Website** <http://www.sitara.com.pk>

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or Mixture.

Classification according to Regulation (EC) No 1272/2008

Skin irritation (Category 2), H315

Serious eye damage (Category 1), H318

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

### 2.2 Label Elements

Labelling according to Regulation (EC) 1272/2008

Pictogram



**Signal word:** Danger

**Hazard statement(s):**

H315 Causes skin irritation

H318 Causes serious eye damage

H335 May cause respiratory irritation.

**Precautionary statement(s)**

**P261** Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray

**P264** Wash skin thoroughly after handling.

**P271** Use only outdoors or in a well-ventilated area.

**P280** Wear protective gloves/ eye protection/ face protection.


**P302 + P352** IF ON SKIN: Wash with plenty of water.

**P305 + P351 + P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Supplemental Hazard Statements:** None

### 2.3 Other hazards:

This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher.

 <b>SITARA</b> CHEMICAL INDUSTRIES LTD	<b>SAFETY DATA SHEET (SDS)</b>	
	<b>HYDRATED LIME</b>	
	Document #: <b>SCIL-SDS-12</b>	Issue Date: <b>01-Jan-23</b>
	Revision: <b>0</b>	Next Rev: <b>31-Dec-27</b>

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Name of substance : Hydrated Lime  
 Formula :  $\text{Ca}(\text{OH})_2$   
 Molecular weight : 74,09 g/mol  
 CAS- No. : 1305-62-0  
 EC-No. : 215-137-3

Component	Classification	Concentration
Calcium hydroxide		
CAS-No. 1305-62-0	Skin Irrit. 2; Eye Dam. 1; STOT SE 3; H315, H318, H335	<= 100 %
EC-No. 215-137-3		

For the full text of the H-Statements mentioned in this Section, see Section 16.

### 4. FIRST AID MEASURES

#### 4.1 Description of first-aid measures

##### General advice

**If inhaled:** After inhalation: fresh air. Immediately.  
**In case of skin contact:** Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
**In case of eye contact:** After eye contact: rinse out with plenty of water. Immediately call-in ophthalmologist. Remove contact lenses  
**If swallowed:** After swallowing, immediately make victim drink water (two glasses at most). Consult a physician.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

No data available

### 5. FIRE FIGHTING MEASURES

#### 5.1 Extinguishing media

##### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** for this substance/mixture no limitations of extinguishing agents are given

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


Calcium oxide  
 Not combustible.  
 Ambient fire may liberate hazardous vapours.

#### 5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing

#### 5.4 Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

 <b>SITARA</b> CHEMICAL INDUSTRIES LTD	<b>SAFETY DATA SHEET (SDS)</b>	
	<b>HYDRATED LIME</b>	
	Document #: <b>SCIL-SDS-12</b>	Issue Date: <b>01-Jan-23</b>
	Revision: <b>0</b>	Next Rev: <b>31-Dec-27</b>

## 6. ACCIDENTAL RELEASE MEASURES

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

#### Advice for non-emergency personnel:

Advice for non-emergency personnel: Avoid inhalation of dusts. Ensure adequate ventilation. Avoid substance contact. Evacuate the danger area, observe emergency procedures, consult an expert

### 6.2 Environmental precautions. Do not let product enter drains.

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

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.

### 6.4 Reference to other sections:

For disposal see section 13.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

For precautions see section 2.2.

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

Storage conditions: Tightly closed. Dry.

Storage class: Storage class (TRGS 510): 13: Non-Combustible Solids

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are known

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

Ingredients with workplace control parameters.

### 8.2 Exposure controls

#### Personal protective equipment

**Eye/face protection:** Use safety goggle with side protection.

**Skin protection:** Handle with gloves. Wash and dry hands.

**Body Protection:** Wear protective clothing

**Respiratory protection:** Required when dusts are generated. In case of inadequate ventilation wear respiratory protection. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143.

Recommended Filter type: Filter type P2 Particulate filter device (EN 143).

**Other:** Wear suitable protective clothing.

#### Control of environmental exposure:


Do not let product enter drains.

## 9. PHYSICAL & CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

#### Appearance

<b>Physical state / Form:</b>	Powder
<b>Color:</b>	White or off-white
<b>Odor:</b>	Odourless
<b>pH :</b>	12.4 (saturated solution at 20 °C)
<b>Melting point/freezing point:</b>	>= 450 °C
<b>Initial boiling point and boiling range:</b>	No information is available
<b>Flash Point:</b>	Not applicable

 <b>SITARA</b> CHEMICAL INDUSTRIES LTD	<b>SAFETY DATA SHEET (SDS)</b>	
	<b>HYDRATED LIME</b>	
	Document #: <b>SCIL-SDS-12</b>	Issue Date: <b>01-Jan-23</b>
	Revision: <b>0</b>	Next Rev: <b>31-Dec-27</b>

<b>Evaporation rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	The product is not flammable
<b>Vapor pressure:</b>	No data available.
<b>Vapor density:</b>	No information is available
<b>Relative density:</b>	2,22 at 20 °C
<b>Solubility in water:</b>	1,85 g/l at 20 °C
<b>Partition coefficient (n-octanol/water):</b>	Not applicable for inorganic substances
<b>Auto-ignition temperature:</b>	> 400 °C
<b>Decomposition temperature:</b>	>825 °C
<b>Viscosity:</b> Viscosity, kinematic / dynamic	Not relevant (solid matter)
<b>Explosive properties</b>	Not explosive
<b>Oxidizing properties</b>	Shall not be classified as oxidising


**9.2 Other safety information:**  
 Surface tension 72 mN/m at 1g/l at 20 °C

## 10. Chemical Stability & Reactivity Information

- 10.1 Reactivity:** No data available
- 10.2 Chemical Stability:** The product is chemically stable under standard ambient conditions.
- 10.3 Possibility of hazardous reactions:**  
 Exothermic reaction with hydrogen sulphide, Light metals, phosphorus, organic nitro compounds, acids
- 10.4 Conditions to avoid:** No information available
- 10.5 Incompatible Materials:** All acids and Light metals.
- 10.6 Hazardous Decomposition Products:** In the event of fire: see section 5

## 11. TOXICOLOGICAL INFORMATION

- 11.1 Information on toxicological effects**
- Acute toxicity:**
- LD50 Oral - Rat - female - > 2.000 mg/kg (OECD Test Guideline 425)
- LC50 Inhalation - Rat - male and female - 4 h - > 6,04 mg/l - dust/mist
- LD50 Dermal - Rabbit - male and female - > 2.500 mg/kg
- Skin corrosion/irritation:** Skin – Rabbit, Result: Irritating to skin.
- Skin corrosion/irritation**  
 Skin - Rabbit  
 Result: Irritating to skin.  
 (OECD Test Guideline 404)
- Serious eye damage/eye irritation**  
 Eyes - Rabbit  
 Result: Irreversible effects on the eye
- Respiratory or skin sensitisation** No data available
- Germ cell mutagenicity**  
 Test Type: In vitro mammalian cell gene mutation test  
 Test system: mouse lymphoma cells  
 Metabolic activation: with and without metabolic activation  
 Result: negative  
 Metabolic activation: with and without metabolic activation  
 Method: OECD Test Guideline 471

 <b>SITARA</b> CHEMICAL INDUSTRIES LTD	<b>SAFETY DATA SHEET (SDS)</b>	
	<b>HYDRATED LIME</b>	
	Document #: <b>SCIL-SDS-12</b>	Issue Date: <b>01-Jan-23</b>
	Revision: <b>0</b>	Next Rev: <b>31-Dec-27</b>

Result: negative

Test Type: Chromosome aberration test in vitro

Test system: Human lymphocytes

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

**Carcinogenicity:** No data available

**Reproductive toxicity** No data available

**Specific target organ toxicity - single exposure**

Inhalation May cause respiratory irritation.

**Specific target organ toxicity - repeated exposure:** No data available

**Aspiration hazard** No data available

## 11.2 Additional Information

**Endocrine disrupting properties**

**Product:**

Assessment: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

**Toxicity to fish** static test LC50 - Oncorhynchus mykiss (rainbow trout) - 50,6 mg/l - 96 h (OECD Test Guideline 203)

**Toxicity to daphnia and other aquatic invertebrates**

static test EC50 - Daphnia magna (Water flea) - 49,1 mg/l - 48 h (OECD Test Guideline 202)

**Toxicity to algae** static test ErC50 - Pseudokirchneriella subcapitata (green algae) - 184,6 mg/l - 72 h (OECD Test Guideline 201)

### 12.2 Persistence and degradability

Does not bioaccumulate.

**12.3 Bio accumulative potential:** No data available

**12.4 Mobility in soil:** No data available

### 12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

### 12.6 Endocrine disrupting properties

**Product:**

Assessment: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 Other adverse effects:

Data are not available.

## 13. DISPOSAL CONSIDERATIONS


### 13.1 Waste treatment methods

Sewage disposal-relevant information:

Do not empty into drains.

Waste treatment of containers/packaging's:

Handle contaminated packages in the same way as the substance itself.

 <b>SITARA</b> CHEMICAL INDUSTRIES LTD	<b>SAFETY DATA SHEET (SDS)</b>	
	<b>HYDRATED LIME</b>	
	Document #: <b>SCIL-SDS-12</b>	Issue Date: <b>01-Jan-23</b>
	Revision: <b>0</b>	Next Rev: <b>31-Dec-27</b>

#### 14. TRANSPORT INFORMATION

- 14.1 UN number**  
 ADR/RID: -      IMDG: -      IATA: -
- 14.2 UN proper shipping name**  
 ADR/RID:      Not dangerous goods  
 IMDG:      Not dangerous goods  
 IATA:      Not dangerous goods
- 14.3 Transport hazard class (es)**      ADR/RID: - IMDG: - IATA: -
- 14.4 Packaging group**      ADR/RID: - IMDG: - IATA: -
- 14.5 Environmental hazards**      ADR/RID: no IMDG Marine pollutant: no IATA: no
- 14.6 Special precautions for user:**  
**Further information**  
 Not classified as dangerous in the meaning of transport regulations.

#### 15. REGULATORY INFORMATION

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
 This material safety data sheet complies with the requirements of Regulation (EC) No.1907/2006.  
**Other regulations**  
 Take note of Dir 94/33/EC on the protection of young people at work.
- 15.2 Chemical Safety Assessment**  
 For this product a chemical safety assessment was not carried out

#### 16. LABELING INFORMATION

**Full text of H-Statements referred to under sections 2 and 3.**

- H315 Causes skin irritation.  
 H318 Causes serious eye damage.  
 H335 May cause respiratory irritation.

**Disclaimer:**

All information given in this data sheet by the company's technical staff is compiled based on data available at this time. The company accepts no responsibility whatsoever for its accuracy or for any results which may be obtained by customers. Any customer who relies upon any advice or information given in this data sheet by the company or by its technical staff does so entirely at its own risk and the company will not be liable for any loss or damage thereby suffered notwithstanding any want of care on the part of the company or its staff in compiling or giving the advice or information.