

# Dolime (all sizings)

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 11/20/2009 Revision date: 05/22/2015 Supersedes: 08/12/2014 Version: 2.1

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Substance  
Substance name : Dolime (all sizings)  
Other means of identification : Dolomitic lime (CaO:MgO)

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

Dolomitic lime (CaO:MgO) is primarily used in steel metallurgical processes, magnesium oxide and hydroxide production, glass making, structural stabilization projects, pharmaceuticals, waste remediation and other applications.

#### 1.3. Details of the supplier of the safety data sheet

Martin Marietta Magnesia Specialties  
1800 Eastlake Road  
Manistee, Michigan 49660 - USA  
T +001 410 780 5500

#### 1.4. Emergency telephone number

Emergency number : CHEMTREC, U.S.: 1-800-424-9300  
INTERNATIONAL: +1-703-527-3887 Available 24/7

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (GHS-US)

Skin Irrit. 2 H315  
Eye Dam. 1 H318  
STOT SE 3 H335

#### 2.2. Label elements

##### GHS-US labeling

Hazard pictograms (GHS-US) :



GHS05

GHS07

Signal word (GHS-US) : Danger.

Hazard statements (GHS-US) : H315 - Causes skin irritation  
H318 - Causes serious eye damage  
H335 - May cause respiratory irritation

Precautionary statements (GHS-US) : P261 - Avoid breathing dust  
P264 - Wash hands thoroughly after handling  
P271 - Use only outdoors or in a well-ventilated area  
P280 - Wear eye protection, protective gloves  
P302+P352 - IF ON SKIN: Wash with plenty of soap and water  
P304+P340 - IF INHALED: Remove to fresh air and keep at rest in a position 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.  
P312 - Call a POISON CENTER/doctor/physician if you feel unwell  
P332+P313 - If skin irritation occurs: Get medical advice/attention  
P362 - Take off contaminated clothing and wash before reuse  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed  
P501 - Dispose of contents/container to an approved waste disposal plant

#### 2.3. Other hazards

Other hazards not contributing to the classification : Reacts with water, releasing heat which can ignite combustible products.

#### 2.4. Unknown acute toxicity (GHS-US)

No data available

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### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Substance type : Mono-constituent  
Name : Dolime (all sizings)

| Name                                 | Product identifier  | %   | Classification (GHS-US)                                    |
|--------------------------------------|---------------------|-----|--|
| Dolomitic lime                       | (CAS No) 37247-91-9 | 99  | Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>STOT SE 3, H335 |
| Oxides of silicon, iron and aluminum | (CAS No) mixture    | 0.5 | Not classified   |
| Inorganic carbonate                  | (CAS No) mixture    | 0.5 | Not classified   |

Full text of H-phrases: see section 16

#### 3.2. Mixtures

Not applicable

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures after inhalation : If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.  
First-aid measures after skin contact : Brush off loose particles from skin. Gently wash with plenty of soap and water.  
First-aid measures after eye contact : If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

Symptoms/injuries after inhalation : Inhalation may cause: irritation, cough, shortness of breath.  
Symptoms/injuries after skin contact : Effects of skin contact may include: skin irritation.  
Symptoms/injuries after eye contact : Causes serious eye damage.

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

All treatments should be based on observed signs and symptoms of distress in the patient.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide. Dry powder. Foam.  
Unsuitable extinguishing media : Do not use extinguishing media containing water.

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

Fire hazard : No particular fire or explosion hazard.  
Reactivity : Reacts with : strong acids. Water.

#### 5.3. Advice for firefighters

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Wear a self contained breathing apparatus. Wear fire/flame resistant/retardant clothing.

### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

Protective equipment : Avoid contact with skin and eyes. Where excessive dust may result, use approved respiratory protection equipment.  
Emergency procedures : Avoid all unnecessary exposure. Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

Protective equipment : Avoid contact with skin and eyes. Where excessive dust may result, use approved respiratory protection equipment.  
Emergency procedures : Avoid contact of substance with water. Collect as much as possible in a clean container for (preferable) reuse or disposal.

#### 6.2. Environmental precautions

Do not discharge into drains or the environment.

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

Methods for cleaning up : Large spills: scoop solid spill into closing containers. Minimize generation of dust.

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### 6.4. Reference to other sections

Section 7: Safe handling.

Section 8: Personal protective equipment.

Section 13: Disposal information.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Keep away from any possible contact with water.

Precautions for safe handling : Avoid contact with skin and eyes.

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

Storage conditions : Keep container tightly closed and in a well-ventilated place. Protect from moisture. Incompatible materials.

Incompatible materials : Strong acids. Water.

### 7.3. Specific end use(s)

Dolomitic lime (CaO:MgO) is primarily used in steel metallurgical processes, magnesium oxide and hydroxide production, glass making, structural stabilization projects, pharmaceuticals, waste remediation and other applications.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| Dolomitic lime (37247-91-9) |                                     |  |
|-----------------------------|-------------------------------------|--|
| USA ACGIH                   | ACGIH TWA (mg/m <sup>3</sup> )      | 10 mg/m <sup>3</sup> Total dust  |
| USA OSHA                    | OSHA PEL (TWA) (mg/m <sup>3</sup> ) | 15 mg/m <sup>3</sup> Total dust<br>5 mg/m <sup>3</sup> respirable fraction |

### 8.2. Exposure controls

Appropriate engineering controls : Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Either local exhaust or general room ventilation is usually required. Protect from moisture.

Personal protective equipment : Gloves. In case of dust production: protective goggles.



Hand protection : PVC, neoprene/natural rubber.

Eye protection : In case of dust production: protective goggles.

Respiratory protection : Use air-purifying respirator equipped with particulate filtering cartridges.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|   |                     |
|---|---------------------|
| Physical state                              | : Solid             |
| Appearance                                  | : Powder.           |
| Color                                       | : Beige.            |
| Odor  | : No data available |
| Odor threshold                              | : No data available |
| pH  | : Not applicable    |
| Relative evaporation rate (butyl acetate=1) | : Not applicable    |
| Melting point                               | : > 450 °C          |
| Freezing point                              | : No data available |
| Boiling point                               | : No data available |
| Flash point                                 | : Not applicable    |
| Self ignition temperature                   | : Not applicable    |
| Decomposition temperature                   | : No data available |
| Flammability (solid, gas)                   | : Not applicable    |
| Vapor pressure                              | : Not applicable    |
| Relative vapor density at 20 °C             | : No data available |

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|                      |   |
|----------------------|---|
| Relative density     | : No data available                             |
| Density              | : 0.8 - 0.93 g/cm <sup>3</sup>                  |
| Solubility           | : Soluble in water.<br>Water: 1000 - 10000 mg/l |
| Log Pow              | : No data available                             |
| Log Kow              | : No data available                             |
| Viscosity, kinematic | : Not applicable                                |
| Viscosity, dynamic   | : No data available                             |
| Explosive properties | : Product is not explosive.                     |
| Oxidizing properties | : No oxidizing properties.                      |
| Explosive limits     | : Not applicable                                |

### 9.2. Other information

VOC content : 0 %

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reacts with : Strong acids. Water.

### 10.2. Chemical stability

The product is stable at normal handling- and storage conditions.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Contact with incompatible materials. Moisture.

### 10.5. Incompatible materials

Water. Strong acids.

### 10.6. Hazardous decomposition products

No dangerous decomposition products known.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

| Dolomitic lime (37247-91-9)                         |   |
|---|---|
| LD50 oral rat                                       | > 2000 mg/kg  |
| Skin corrosion/irritation                           | : Causes skin irritation.   |
| Serious eye damage/irritation                       | : Causes serious eye damage.  |
| Respiratory or skin sensitization                   | : Not classified  |
| Germ cell mutagenicity                              | : Not classified  |
| Carcinogenicity                                     | : Not classified  |
| Reproductive toxicity                               | : Not classified  |
| Specific target organ toxicity (single exposure)    | : May cause respiratory irritation.   |
| Specific target organ toxicity (repeated exposure)  | : Not classified  |
| Aspiration hazard                                   | : Not classified  |
| Potential Adverse human health effects and symptoms | : Irritation: may cause irritation to the respiratory system. May cause serious damage to eyes. Causes skin irritation. |
| Symptoms/injuries after inhalation                  | : Inhalation may cause: irritation, cough, shortness of breath.   |
| Symptoms/injuries after skin contact                | : Effects of skin contact may include: skin irritation.   |
| Symptoms/injuries after eye contact                 | : Causes serious eye damage.  |
| Likely routes of exposure                           | : Skin and eyes contact.;Inhalation.  |

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### SECTION 12: Ecological information

#### 12.1. Toxicity

| Dolomitic lime (37247-91-9) |                      |
|-----------------------------|----------------------|
| LC50 fish 1                 | 457 mg/l Read across |

#### 12.2. Persistence and degradability

| Dolomitic lime (37247-91-9)   |                            |
|-------------------------------|----------------------------|
| Persistence and degradability | Not readily biodegradable. |

#### 12.3. Bioaccumulative potential

| Dolomitic lime (37247-91-9) |                                      |
|-----------------------------|--------------------------------------|
| Bioaccumulative potential   | This product is not bioaccumulating. |

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

No additional information available

### SECTION 14: Transport information

In accordance with DOT

Not considered a dangerous good for transport regulations

#### Additional information

Other information : No supplementary information available.

#### ADR

No additional information available :

#### Transport by sea

No additional information available

#### Air transport

No additional information available

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

| Dolomitic lime (37247-91-9)   |  |
|---|--|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |  |

#### 15.2. International regulations

| Dolomitic lime (37247-91-9) |  |                              |
|-----------------------------|--|------------------------------|
| Jurisdiction                | List   | Comment                      |
| Asia Pacific                | Asia - PAC   |                              |
| Australia                   | Australian Inventory of Chemical Substances (AICS)               | Listed                       |
|                             | National Pollutant Inventory                                     |                              |
|                             | Priority Existing Chemicals                                      |                              |
| China                       | Inventory of Existing Chemical Substances (IECSC)                |                              |
| Japan                       | Existing and New Chemical Substances (ENCS)                      | # 1-465; inorganic compounds |
| Korea                       | KECI (Chemical Inventory of Korea)                               | KE-04576                     |
| New Zealand                 | Inventory of Chemicals (NZIoC)                                   | Listed                       |
| Phillippines                | Inventory of Chemicals and Chemical Substances (PICCS)           |                              |
| Europe                      | EEC International Cosmetics Ingredients Inventory (INCI)         |                              |
|                             | EU REACH pre-registered  | Yes                          |
|                             | EU Inventory of Existing Commercial Chemical Substances (EINECS) | 253-425-0                    |

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| Dolomitic lime (37247-91-9) |  |  |
|-----------------------------|--|--|
|                             | German Water Hazard Class Substance List                       |  |
|                             | Switzerland Giftliste 1 (List of Toxic Substances)             |  |
| Canada                      | Canadian Domesticated Substances List (NDSL)                   | Listed   |
|                             | WHMIS Ingredient List  |  |
| United States               | ACGIH Threshold Limit Values (TLV)                             | 10 mg/m <sup>3</sup> 8 hour TWA: total particulates  |
|                             | EPA Pesticide Inert Ingredients                                | Inerts 4A - minimal Risk Inert Ingredients           |
|                             | FDA Priority-based Assessment of Food Additives (PAFA)         |  |
|                             | FDA Regulations  |  |
|                             | High Production Volume Chemicals (HPV)                         |  |
|                             | National Toxicology Program Technical Reports List             |  |
|                             | NIOSH Hazard, Toxicology, and Use Information                  |  |
|                             | NIOSH Health Hazards   |  |
|                             | NIOSH Recommended Exposure Limits                              |  |
|                             | OSHA Permissible Exposure Limits                               | 8 hour TWA: total particulates 15 mg/ m <sup>3</sup> |
|                             | Toxic Substances Control Act (TSCA) Inventory                  | Listed   |
|                             | Toxic Inventory Update Rule                                    |  |
|                             | TSCA Section 8A-Preliminary Assessment Information Rule (PAIR) |  |
| Other                       | Health Hazards   |  |
|                             | High Production Volume Chemicals: ICCA                         |  |
|                             | High Production Volume Chemicals: OECD                         | Listed   |

### 15.3. US State regulations

No additional information available

## SECTION 16: Other information

Indication of changes : Revision : NFPA-code.  
Revision date : 05/22/2015  
Data sources : European Chemicals Agency (ECHA) Registered Substances list. Accessed at <http://echa.europa.eu/>  
Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition.  
National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition.  
OSHA 29CFR 1910.1200 Hazard Communication Standard.

Abbreviations and acronyms : ACGIH (American Conference of Government Industrial Hygienists).  
ATE: Acute Toxicity Estimate.  
CAS (Chemical Abstracts Service) number.  
GHS: Globally Harmonized System (of Classification and Labeling) of Chemicals .  
OSHA: Occupational Safety & Health Administration.  
TWA: Time Weighted Average.

Full text of H-phrases:

|               |   |
|---------------|---|
| Eye Dam. 1    | Serious eye damage/eye irritation Category 1                |
| Skin Irrit. 2 | skin corrosion/irritation Category 2                        |
| STOT SE 3     | Specific target organ toxicity (single exposure) Category 3 |
| H315          | Causes skin irritation                                      |
| H318          | Causes serious eye damage                                   |
| H335          | May cause respiratory irritation                            |

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NFPA health hazard

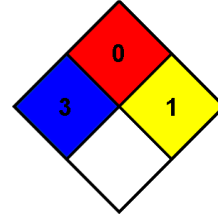
: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.

NFPA fire hazard

: 0 - Materials that will not burn.

NFPA reactivity

: 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.



SDS US (GHS HazCom 2012)

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*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*