



# Material SAFETY DATA SHEET

## Monorelease

### 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Monorelease**

Description: Powdered release agent for stamped concrete

Manufacturer: **DCP Saudi Co**  
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Date Prepared: 04.05.2011

MSDS Number: DCP/05/01/02

### 2: COMPOSITION / INFORMATION ON INGREDIENTS

Composition: Calcium carbonate, Calcium Stearate, pigments.

| Hazardous Ingredient(s) | Symbol | Risk Phrases | CAS No.   | %    |
|-------------------------|--------|--------------|-----------|------|
| Calcium carbonate       | -      | R36, 37, 38  | 471-34-1  | > 80 |
| Calcium stearate        | Xi     | R36/37       | 1592-23-0 | < 10 |
| Pigments                | -      | -            | -         | < 10 |

Refer to Section 8 for Occupational Exposure Limits.

### 3: HAZARDS IDENTIFICATION

Hazard Information: Irritant.  
Irritating to eyes.  
Irritating to respiratory system.  
Irritating to skin.

Classification: Xi. R36, 37, 38.



#### 4: FIRST AID MEASURES

|             |  |
|-------------|--|
| Eyes:       | Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eye lids occasionally Cold water may be used. WARM water MUST be used. Get medical attention.  |
| Skin:       | After contact with skin, remove contaminated clothing. Wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing. |
| Inhalation: | If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.   |
| Ingestion:  | Do NOT induce vomiting unless directed to do so by medical personnel. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.  |

#### 5: FIRE FIGHTING MEASURES

|                                  |   |
|----------------------------------|---|
| Flash Point (Closed Cup):        | Not applicable.   |
| Extinguishing Media:             | Carbon dioxide, powder, water fog, water spray.   |
| Personal Protective Equipment:   | Self-contained breathing apparatus in pressure-demand and full protective clothing.   |
| Special Exposure Hazards:        | Toxic fumes. Carbon Oxides. Some metallic oxides.   |
| Special Remarks on Fire Hazards: | Will ignite and burn fiercely in contact with fluorine. When a mixture of calcium carbonate and magnesium is heated in a current of hydrogen, a violent explosion occurs. |

#### 6: ACCIDENTAL RELEASE MEASURES

|                             |   |
|-----------------------------|---|
| Personal Precautions:       | Use proper personal protective equipment as indicated in Section 8.   |
| Environmental Precautions:  | Prevent entry into drains, sewers and water courses.  |
| Decontamination Procedures: | <b>Small Spill:</b> Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements. <b>Large Spill:</b> Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.<br>Avoid generating dusty conditions |



## 7: HANDLING AND STORAGE

**Handling:** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. May form flammable dust-air mixtures. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

**Storage:** Store in a cool, dry, well-ventilated area away from incompatible substances. Keep containers tightly closed.

## 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Eye Protection:** Use chemical safety goggles and/or a full face shield where splashing is possible.

**Skin Protection:** Wear impervious clothing, including boots, gloves, lab coats, aprons or coveralls.

**Respiratory Protection:** Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

**Hygiene Measures:** Change contaminated clothing and clean before re-use.

**Engineering Controls:** Use only in well ventilated areas. Local exhaust ventilation is recommended.

**Exposure limits:**

| Chemical name            | ACGIH   | NIOSH  | OSHA - Final PELs  |
|--------------------------|---|--|--|
| <b>Limestone</b>         | none listed   | 10 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable dust)                                   | 15 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable fraction)                                   |
| <b>Calcium carbonate</b> | none listed   | 10 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable dust) (listed under Calcium carbonate). | 15 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable fraction) (listed under Calcium carbonate). |
| <b>Calcium stearate</b>  | 10 mg/m <sup>3</sup> TWA (except stearates of toxic metals) (listed under Stearates). | none listed  | none listed  |

## 9: PHYSICAL AND CHEMICAL PROPERTIES

**Form:** Solid powder with grease touch.

**Colour:** Various

**Odour:** Not applicable

**Boiling Point (°C):** Not applicable

**Relative Density (@15°C):** Not applicable

**Water Solubility:** Not applicable



## 10: STABILITY AND REACTIVITY

Stability: Stable at room temperature in closed containers under normal storage and handling conditions.

Chemical incompatibility: Acids, aluminum, strong oxidizers, magnesium, fluorine with hydrogen.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, calcium hydroxide.

## 11: TOXICOLOGICAL INFORMATION

The following toxicological assessment is based on knowledge of the toxicity of the product's components.  
Expected oral LD50: 6450 mg/kg [Rat]. (Calcium carbonate)  
Classified as skin sensitizer.

### Health Effects

On Eyes: Irritant.

On Skin: Irritant.

By Inhalation: Irritant.

By Ingestion: Irritant.

## 12: ECOLOGICAL INFORMATION

Environmental Assessment: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Mobility: Solid powder.

Degradability: Not applicable.

Bioaccumulation: Not applicable.

Environmental Toxicity: Not applicable.

## 13: DISPOSAL CONSIDERATION

Disposal must be in accordance with local and national legislation.

Unused Product: Dispose off through an authorized waste contractor to a licensed site.

Used/ Contaminated Product: As for unused product.

Packaging: Must be disposed off through an authorized waste contractor.

## 14: TRANSPORT INFORMATION

Not regulated.

## 15: REGULATORY INFORMATION

### Hazard Label Data:

**Xi**



**Irritant**

### Named Ingredients:

Calcium carbonate, calcium stearate.

### Risk Phrases:

R36                    Irritating to eyes.  
R37                    Irritating to respiratory system.  
R38                    Irritating to skin.

### Safety Phrases:

S22                    Do not breathe dust  
S24/25                Avoid contact with skin and eyes.  
S26                    In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S28A                  After contact with skin, wash immediately with plenty of water.  
S36                    Wear suitable protective clothing.

## 16: OTHER INFORMATION

### Issue Date:

04/05/2011

### Revised Date:

### Disclaimer:

The information contained herein is derived from the best available sources and is believed to be accurate. However, no guarantee is expressed or implied regarding the accuracy of the data given in the use of this product.