

# **SAFETY DATA SHEET**

according to Regulation (EC) No. 453/2010

## **HI-DENSE® NO. 5 WEIGHT ADDITIVE**

Revision Date: 03-Jan-2012

Revision Number: 5

### **1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**Product Identifier****Product Name** HI-DENSE® NO. 5 WEIGHT ADDITIVE**Relevant identified uses of the substance or mixture and uses advised against****Recommended Use** Additive**Uses Advised Against** No information available**Details of the supplier of the safety data sheet**

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+44 1224 795277 or +1 281 575 5000

**Emergency telephone §45 - (EC)1272/2008**

|                       |                                                                                                                         |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>Europe</b>         | <b>112</b>                                                                                                              |
| <b>Denmark</b>        | Poison Control Hotline (DK): +45 82 12 12 12                                                                            |
| <b>France</b>         | ORFILA (FR): + 01 45 42 59 59                                                                                           |
| <b>Germany</b>        | Poison Center Berlin (DE): +49 030 30686 790                                                                            |
| <b>Italy</b>          | Poison Center, Milan (IT): +39 02 6610 1029                                                                             |
| <b>Netherlands</b>    | National Poisons Information Center (NL): +31 30 274 88 88 (NB: this service is only available to health professionals) |
| <b>Norway</b>         | Poisons Information (NO): + 47 22 591300                                                                                |
| <b>Poland</b>         | Poison Control and Information Centre, Warsaw (PL): +48 22 619 66 54; +48 22 619 08 97                                  |
| <b>Spain</b>          | Poison Information Service (ES): +34 91 562 04 20                                                                       |
| <b>United Kingdom</b> | NHS Direct (UK): +44 0845 46 47                                                                                         |

### **2. HAZARDS IDENTIFICATION**

**Classification of the substance or mixture****REGULATION (EC) No 1272/2008**

|                                                      |                      |
|------------------------------------------------------|----------------------|
| Carcinogenicity                                      | Category 1A - (H350) |
| Specific Target Organ Toxicity - (Repeated Exposure) | Category 1 - (H372)  |

**Classification according to EU Directives 67/548/EEC or 1999/45/EC**

For the full text of the R-phrases mentioned in this Section, see Section 16

## 2. HAZARDS IDENTIFICATION

**Classification** Crystalline silica is not classified as a carcinogen in EU Council Directives 67/548/EEC and 88/379/EEC.

**Risk Phrases** None

### Label Elements

### **Hazard Pictograms**



**Signal Word** Danger

### **Hazard Statements**

H350i - May cause cancer by inhalation

H372 - Causes damage to organs through prolonged or repeated exposure

### **Contains**

#### **Substances**

Ilmenite

Crystalline silica, quartz

#### **CAS Number**

12168-52-4

14808-60-7

### **Precautionary Statements - EU (§28, 1272/2008)**

P201 - Obtain special instructions before use

P308 + P313 - IF exposed or concerned: Get medical advice/attention

### **Other Hazards**

None known

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Substances                 | EINECS    | CAS Number | PERCENT   | EEC Classification | EU - CLP Substance Classification    | REACH No.         |
|----------------------------|-----------|------------|-----------|--------------------|--------------------------------------|-------------------|
| Ilmenite                   | 235-334-8 | 12168-52-4 | 60 - 100% | Not applicable     | Not applicable                       | No data available |
| Crystalline silica, quartz | 238-878-4 | 14808-60-7 | 0 - 1%    | Not applicable     | Carc. 1A (H350i)<br>STOT RE 1 (H372) | No data available |

For the full text of the R-phrases mentioned in this Section, see Section 16

## 4. FIRST AID MEASURES

### Description of first aid measures

#### **Inhalation**

If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.

#### **Eyes**

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

#### **Skin**

Wash with soap and water. Get medical attention if irritation persists.

#### **Ingestion**

Under normal conditions, first aid procedures are not required.

## 4. FIRST AID MEASURES

### Most Important symptoms and effects, both acute and delayed

May cause eye irritation.

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

**Notes to Physician** Treat symptomatically

## 5. FIREFIGHTING MEASURES

### Extinguishing media

#### Suitable Extinguishing Media

All standard fire fighting media

#### Extinguishing media which must not be used for safety reasons

None known.

### Special hazards arising from the substance of mixture

#### Special Exposure Hazards

Not applicable.

### Advice for firefighters

#### Special Protective Equipment for Fire-Fighters

Not applicable.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Use appropriate protective equipment. Avoid creating and breathing dust.

See Section 12 for additional information

### Environmental precautions

None known.

### Methods and material for containment and cleaning up

Collect using dustless method and hold for appropriate disposal. Consider possible toxic or fire hazards associated with contaminating substances and use appropriate methods for collection, storage and disposal.

### Reference to other sections

See Section 12 for additional information.

## 7. HANDLING AND STORAGE

### Precautions for Safe Handling

This product contains quartz, cristobalite, and/or tridymite which may become airborne without a visible cloud. Avoid breathing dust. Avoid creating dusty conditions. Use only with adequate ventilation to keep exposure below recommended exposure limits. Wear a NIOSH certified, European Standard En 149, or equivalent respirator when using this product. Material is slippery when wet.

### Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice

### Conditions for safe storage, including any incompatibilities

Do not reuse empty container. Store in a cool, dry location. Use good housekeeping in storage and work areas to prevent accumulation of dust. Close container when not in use. Product has a shelf life of 60 months.

### Specific End Use(s)

**Exposure Scenario** No information available

**Other Guidelines** No information available

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

| Substances                 | EU             | UK OEL                | Netherlands             | France OEL            | Germany MAK/TRK        |
|----------------------------|----------------|-----------------------|-------------------------|-----------------------|------------------------|
| Ilmenite                   | Not applicable | Not applicable        | Not applicable          | Not applicable        | Not applicable         |
| Crystalline silica, quartz | Not applicable | 0.1 mg/m <sup>3</sup> | 0,075 mg/m <sup>3</sup> | 0.1 mg/m <sup>3</sup> | 0,15 mg/m <sup>3</sup> |

| Substances                 | Italy          | Poland              | Hungary                | Czech Republic | Denmark        |
|----------------------------|----------------|---------------------|------------------------|----------------|----------------|
| Ilmenite                   | Not applicable | Not applicable      | Not applicable         | Not applicable | Not applicable |
| Crystalline silica, quartz | Not applicable | 2 mg/m <sup>3</sup> | 0.15 mg/m <sup>3</sup> | Not applicable | Not applicable |

**Derived No Effect Level (DNEL)** No information available.

**Predicted No Effect Concentration (PNEC)** No information available.

#### Exposure controls

##### Engineering Controls

Use approved industrial ventilation and local exhaust as required to maintain exposures below applicable exposure limits listed in Section 2.

#### Personal protective equipment

##### Respiratory Protection

Wear a NIOSH certified, European Standard EN 149 (FFP2/FFP3), or equivalent respirator when using this product.

##### Hand Protection

Normal work gloves.

##### Skin Protection

Wear clothing appropriate for the work environment. Dusty clothing should be laundered before reuse. Use precautionary measures to avoid creating dust when removing or laundering clothing.

##### Eye Protection

Wear safety glasses or goggles to protect against exposure.

##### Other Precautions

None known.

#### Environmental Exposure Controls

No information available

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

**Physical State:** Powder

**Color:** Black

**Odor:** Odorless

**Odor Threshold:** No information available

#### Property

#### Values

#### Remarks/ Method

#### pH:

No data available

#### Melting Point/Range

No data available

#### Freezing Point/Range (C):

No data available

#### Boiling Point/Range

1200°C

#### Flash Point

No data available

#### Evaporation rate

No data available

#### Vapor Pressure

No data available

#### Vapor Density

No data available

#### Specific Gravity

4.3 - 4.6

#### Water Solubility

Insoluble in water

#### Solubility in other solvents

No data available

#### Partition coefficient: n-octanol/water

No data available

#### Autoignition Temperature

No data available

#### Decomposition Temperature

No data available

#### Viscosity

No data available

#### Explosive Properties

No information available

#### Oxidizing Properties

No information available

#### Other information

#### VOC Content (%)

No data available

## 10. STABILITY AND REACTIVITY

#### Reactivity

Not applicable

#### Chemical Stability

Stable

#### Possibility of Hazardous Reactions

Will Not Occur

#### Conditions to Avoid

## 10. STABILITY AND REACTIVITY

None anticipated

### **Incompatible Materials**

None known.

### **Hazardous Decomposition Products**

Amorphous silica may transform at elevated temperatures to tridymite (870 C) or cristobalite (1470 C).

## 11. TOXICOLOGICAL INFORMATION

### **Information on Toxicological Effects**

#### **Acute Toxicity**

##### **Inhalation**

Inhaled crystalline silica in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (IARC, Group 1). There is sufficient evidence in experimental animals for the carcinogenicity of tridymite (IARC, Group 2A).

Breathing silica dust may cause irritation of the nose, throat, and respiratory passages. Breathing silica dust may not cause noticeable injury or illness even though permanent lung damage may be occurring. Inhalation of dust may also have serious chronic health effects (See "Chronic Effects/Carcinogenicity" subsection below).

##### **Eye Contact**

May cause mild eye irritation.

##### **Skin Contact**

Can dry skin.

##### **Ingestion**

May cause stomach discomfort.

#### **Chronic Effects/Carcinogenicity**

**Silicosis:** Excessive inhalation of respirable crystalline silica dust may cause a progressive, disabling, and sometimes-fatal lung disease called silicosis. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness, and reduced pulmonary function. This disease is exacerbated by smoking. Individuals with silicosis are predisposed to develop tuberculosis.

**Cancer Status:** The International Agency for Research on Cancer (IARC) has determined that crystalline silica inhaled in the form of quartz or cristobalite from occupational sources can cause lung cancer in humans (Group 1 - carcinogenic to humans) and has determined that there is sufficient evidence in experimental animals for the carcinogenicity of tridymite (Group 2A - possible carcinogen to humans). Refer to IARC Monograph 68, Silica, Some Silicates and Organic Fibres (June 1997) in conjunction with the use of these minerals. The National Toxicology Program classifies respirable crystalline silica as "Known to be a human carcinogen". Refer to the 9th Report on Carcinogens (2000). The American Conference of Governmental Industrial Hygienists (ACGIH) classifies crystalline silica, quartz, as a suspected human carcinogen (A2).

There is some evidence that breathing respirable crystalline silica or the disease silicosis is associated with an increased incidence of significant disease endpoints such as scleroderma (an immune system disorder manifested by scarring of the lungs, skin, and other internal organs) and kidney disease.

| Substances                 | LD50 Oral         | LD50 Dermal       | LC50 Inhalation   |
|----------------------------|-------------------|-------------------|-------------------|
| Ilmenite                   | No data available | No data available | No data available |
| Crystalline silica, quartz | No data available | No data available | No data available |

## 12. ECOLOGICAL INFORMATION

### **Toxicity**

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity Effects

| Substances                 | Toxicity to Algae        | Toxicity to Fish         | Toxicity to Microorganisms | Daphnia Magna (Water Flea) |
|----------------------------|--------------------------|--------------------------|----------------------------|----------------------------|
| Ilmenite                   | No information available | No information available | No information available   | No information available   |
| Crystalline silica, quartz | No information available | No information available | No information available   | No information available   |

### Persistence and degradability

No information available

### Bioaccumulative potential

No information available

### Mobility in soil

No information available

### Results of PBT and vPvB assessment

No information available.

### Other adverse effects

#### **Endocrine Disruptor Information**

This product does not contain any known or suspected endocrine disruptors

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

#### **Disposal Method**

Bury in a licensed landfill according to federal, state, and local regulations.

#### **Contaminated Packaging**

Follow all applicable national or local regulations.

## 14. TRANSPORT INFORMATION

### IMDG/IMO

UN Number: Not restricted.  
 UN Proper Shipping Name: Not restricted  
 Transport Hazard Class(es): Not applicable

### RID

UN Number: Not restricted.  
 UN Proper Shipping Name: Not restricted  
 Transport Hazard Class(es): Not applicable

### ADR

UN Number: Not restricted.  
 UN Proper Shipping Name: Not restricted  
 Transport Hazard Class(es): Not applicable

### IATA/ICAO

UN Number: Not restricted.  
 UN Proper Shipping Name: Not restricted  
 Transport Hazard Class(es): Not applicable

### Special Precautions for User

None

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

Not applicable

## 15. REGULATORY INFORMATION

### Safety, health and environmental regulations/legislation specific for the substance or mixture

#### International Inventories

**EINECS Inventory**

This product, and all its components, complies with EINECS

**US TSCA Inventory**

All components listed on inventory or are exempt.

**Canadian DSL Inventory**

All components listed on inventory or are exempt.

#### Legend

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List**Germany, Water Endangering  
Classes (WGK)**

Not determined.

#### Chemical Safety Assessment

No information available

## 16. OTHER INFORMATION

### Full text of R-phrases referred to under Sections 2 and 3

None

### Key literature references and sources for data

[www.ChemADVISOR.com/](http://www.ChemADVISOR.com/)**Revision Date:**

03-Jan-2012

**Revision Note**

Not applicable

**This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

#### **Disclaimer Statement**

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**End of Safety Data Sheet**