



# Material Safety Data Sheet

## MSDS

Last changed : May 15, 2006

## EXA HDO

### 1. Product and Company

Trade Name : **ExaHDO®**  
Application : Blasting agent for surface cleaning and removal of paint and oxidation.

#### Producer or Importer

Company : EXA Scandinavia A/S  
Street : Stroemdalkaasa 22  
Zip and City : N – 3727 Skien  
Country : Norway  
Telephone : +47 (0)35 50 39 05  
Fax : +47 (0)35 50 39 06  
E-Mail : osl@exa.no

### 2. Composition of Product

N°	Ingredients Name	CAS-No	Weight t%	Danger clas./Cmnt.
1	Calcium Carbonate	471-34-1	Ca. 98 %	
2	Calcium Fluoride	7789-75-5	< 0.5 %	
3	Calcium Nitrate	10124-37-5	< 0.5 %	0.8
4	Ammonium Nitrate	6484-52-2	< 0.5 %	
5	Tricalcium Orthophosphate	7758-87-4	< 0.5 %	

Legend : T+ = Very toxic, T = Toxic, C = Corrosive, Xn = Harmful, Xi = Irritant,  
IK = No classification required, E = Explosive, O = Oxidizing, F+ = Extremely flammable,  
F = Very flammable, Fo = Flammable, N = Dangerous to the environment,  
Mut = Genotoxic, Sens = Sensitizing, Carc = Carcinogen, Repr = Causes birth defects

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Tel. +41-22-307-11-70 – Fax. +41-22-307-11-71  
e-mail : office@exasa.com  
www.exasa.com



### 3. Hazard Identification

The product does not require labeling.

### 4. First Aid

#### General

Move to fresh air, keep patient warm and at rest.

#### Inhalation

See "General".

#### Skin Contact

Wash skin thoroughly with soap and water.

#### Eye Contact

Flush with large amounts of water (open eyelids) for at least 15 minutes. Get medical advice if irritation persists.

#### Ingestion

Give plenty of water or milk to drink.

### 5. Firefighting Measures

#### Proper Firefighting Equipment

Use extinguishing media appropriate for surrounding fire.

#### Fire and Explosion Hazards

The product is not combustible.

### 6. Accidental Release Measures

#### Safety Measures to Protect Persons

Use the specified protective equipment for air pressure blasting.

#### Safety Measures to Protect the Environment

None

#### Proper Methods for Damage Limitation and Cleanup

Use mechanical handling equipment. Collect in dry containers. Flush the area with water.

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## 7. Handling and Storage

Keep container dry.

## 8. Exposure Control / Personal Protection

TLVs :

Ingredients Name	CAS-No.	TLV Value	TLV Year
Calcium Carbonate	471-34-1	0,0	
Calcium Fluoride	7789-75-5	0,6 mg/m <sup>3</sup> (F)	

### Exposure Control

Wash with water.

### Respiratory Protection

For larger blasting operations : Wear respiratory protection with particulate filter P2.

For smaller blasting operations : Wear paper type mask protection.

### Eye Protection

Wear dustproof goggles.

### Hand Protection

For larger blasting operations : Use gloves.

### Skin Protection

Wear suitable clothing (long-sleeved, long-legged, etc.) if there is a possibility of direct contact or splashes.

## 9. Physical and Chemical Properties

Form : Powder  
Color : Grayish white  
Odor : Odorless  
Solubility : Slowly soluble in water. Soluble in acids.  
Density : Ca. 2.83 g/cm<sup>3</sup> (in buckets weight may vary)  
Ph Solution : Ca. 8.5 (10 %)

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## 10. Stability and Reactivity

### Materials to Avoid

May ignite upon contact with fluorine gas.

### Hazardous Decomposition Products

Calcium oxide and carbon dioxide are formed upon heating/reaction with acids.

## 11. Toxicological Information

### General

May cause irritation effects similar to other nuisance dusts.

### Inhalation

May cause irritation, similar to other nuisance dusts, to the respiratory tract.

### Skin Contact

Powder may irritate skin.

### Eye Contact

May cause irritation effects similar to other nuisance dusts.

### Ingestion

May cause irritation.

## 12. Ecological Information

### Mobility

Slowly soluble in water.

### Breakdown

Mineralizes.

### Accumulation

Does not bioaccumulate.

## 13. Disposal

The product is not classified as hazardous waste.

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#### 14. Transport Information

Proper Shipping Name

Road : ADR  
Railway : RID  
Sea : IMDG  
Airplane : IATA

**The product is not considered as dangerous goods**

#### 15. Regulatory Information

Composition

Calcium Carbonate (~ 98 %), Calcium Fluoride (< 0.5%),  
Calcium Nitrate (< 0.5%), Ammonium Nitrate (< 0.5%),  
Tricalcium Orthophosphate (< 0.5%).

#### 15. Other Information

Void

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