

Abrasive Products

Safety information

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

Product identifier

Name AB-Z, AC-D, AF-D, AG-D, AN-D

Use of the substance/mixture

Milling, grinding and similar activities

Manufacturer/Supplier

Supplier

Hilti Emirates L.L.C.
Dubai Investment Park
P.O. Box 11051
Dubai - United Arab Emirates
T +971 800 44584 - F +971 4 885 4405
ae.contactus@hilti.com - www.hilti.ae

Department issuing data specification sheet

Hilti Entwicklungsgesellschaft mbH
Hiltistraße 6
86916 Kaufering - Deutschland
T +49 8191 906876
anchor.hse@hilti.com

SECTION 2: Hazards identification

A safety data sheet is not required for this product under Article 31 of REACH. This Product Safety Information Sheet has been created on a voluntary basis

According to EC directives or the corresponding national regulations there is no labelling obligation for this product.

SECTION 3: Composition/information on ingredients

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
pyrite (FeS ₂)	(CAS-No.) 1309-36-0 (EC-No.) 215-167-7	≤ 20	Eye Irrit. 2, H319
calcium oxide	(CAS-No.) 1305-78-8 (EC-No.) 215-138-9	≤ 10	Eye Dam. 1, H318 Skin Irrit. 2, H315 STOT SE 3, H335
potassiumtetrafluoroborate substance with a Community workplace exposure limit	(CAS-No.) 14075-53-7 (EC-No.) 237-928-2	≤ 10	Not classified
calcium fluoride substance with a Community workplace exposure limit	(CAS-No.) 7789-75-5 (EC-No.) 232-188-7	≤ 10	Not classified
trisodium hexafluoroaluminate	(CAS-No.) 13775-53-6 (EC-No.) 237-410-6 (EC Index-No.) 009-016-00-2	≤ 5	STOT RE 1, H372 Acute Tox. 4 (Inhalation), H332 Aquatic Chronic 2, H411

Full text of H-statements: see section 16

SECTION 4: First aid measures

Description of first aid measures

First-aid measures after inhalation	Remove person to fresh air and keep comfortable for breathing. When symptoms occur: go into open air and ventilate suspected area.
First-aid measures after skin contact	Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	Rinse eyes with water as a precaution. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	Rinse mouth.

Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation	May cause respiratory irritation.
Symptoms/effects after eye contact	May cause severe irritation.

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Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media	Water. Sand. Foam. Carbon dioxide.
Unsuitable extinguishing media	Do not use a heavy water stream.

Special hazards arising from the substance or mixture

Fire hazard	Not flammable.
Hazardous decomposition products in case of fire	Toxic fumes may be released.

Advice for firefighters

Firefighting instructions	Use extinguishing agent suitable for surrounding fire.
Protection during firefighting	Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

No additional information available

For emergency responders

No additional information available

Environmental precautions

No additional information available

Methods and material for containment and cleaning up

Methods for cleaning up	Scoop solid spill into closing containers.
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SECTION 7: Handling and storage

Precautions for safe handling

Additional hazards when processed	Normal use of this product shall imply use in accordance with the instructions on the packaging and in line with the expectations of a professional user.
Precautions for safe handling	The product should not be used for purposes other than those shown above without first referring to the supplier and obtaining written handling instructions.
Hygiene measures	Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

Conditions for safe storage, including any incompatibilities

Storage conditions	Store in a dry place.
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SECTION 8: Exposure controls/personal protection

Control parameters

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USA - ACGIH	Local name	Silicon carbide

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USA - ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³ (Non fibrous. I - Inhalable particulate matter, E - The value is for particulate matter containing no asbestos and < 1 % crystalline silica) 3 mg/m ³ (Non fibrous. R - Respirable particulate matter, E - The value is for particulate matter containing no asbestos and < 1 % crystalline silica) 0.1 fibers/cm ³ (Fibrous (including whiskers). F - Respirable fibers)
USA - ACGIH	Remark (ACGIH)	Non fibrous = TLV® Basis: URT irr Fibrous (including whiskers) = TLV® Basis: Mesothelioma; cancer. Notations: A2 (Suspected Human Carcinogen)
USA - OSHA	Local name	alpha-Alumina
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³ (Total dust) 5 mg/m ³ (Respirable fraction)
trisodium hexafluoroaluminate (13775-53-6)		
USA - ACGIH	ACGIH TWA (mg/m ³)	2.5 mg/m ³
calcium fluoride (7789-75-5)		
USA - ACGIH	ACGIH TWA (mg/m ³)	2.5 mg/m ³
calcium oxide (1305-78-8)		
USA - ACGIH	Local name	Calcium oxide
USA - ACGIH	ACGIH TWA (mg/m ³)	2 mg/m ³
USA - ACGIH	Remark (ACGIH)	URT irr
USA - OSHA	Local name	Calcium oxide
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	5 mg/m ³

Exposure controls

Appropriate engineering controls
Personal protective equipment

Ensure good ventilation of the work station.
Dust formation: dust mask. In case of dust production: protective goggles.



Hand protection
Eye protection
Skin and body protection
Respiratory protection

Wear leather gloves.
Safety glasses.
Wear suitable protective clothing.
Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.

Consumer exposure controls
Other information

Avoid contact during pregnancy/while nursing.
Hazardous dust of the workpiece material may be generated during grinding / drilling and/or sanding operations. National regulations for dust exposure limit values have to be taken into consideration as part of the job hazard assessment.

Most of the dust generated during grinding is from the base material being ground and the potential hazard from this exposure must be evaluated. This dust may present a fire or dust explosion hazard and may present a serious health hazard.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state	Solid
Colour	No data available
Solubility	insoluble in water.

Other information

No additional information available

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SECTION 10: Stability and reactivity

Reactivity

The product is non-reactive under normal conditions of use, storage and transport. Product is not explosive.

Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

Conditions to avoid

No additional information available

Incompatible materials

No additional information available

Hazardous decomposition products

Do not expose to temperatures above 250°C. Hazardous decomposition byproducts may form with exposure to high temperatures.

SECTION 11: Toxicological information

Information on toxicological effects

Likely routes of exposure	Inhalation
Symptoms/effects after inhalation	May cause respiratory irritation.
Symptoms/effects after eye contact	May cause severe irritation.

SECTION 12: Ecological information

Toxicity

No additional information available

Persistence and degradability

No additional information available

Bioaccumulative potential

No additional information available

Mobility in soil

No additional information available

Other adverse effects

Other information Do not allow the product, as is, to spread into the environment.

SECTION 13: Disposal considerations

Waste treatment methods

Regional legislation (waste)	Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	Dispose in a safe manner in accordance with local/national regulations. Avoid release to the environment.
Ecology - waste materials	Avoid release to the environment. Hazardous waste due to toxicity.

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SECTION 14: Transport information

In accordance with ADR / IATA / IMDG / RID

ADR	IMDG	IATA	RID
14.1. UN number			
Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name			
Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)			
Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group			
Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards			
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available			

14.6. Special precautions for user

Overland transport

No data available

Transport by sea

No data available

Air transport

No data available

Rail transport

No data available

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

No additional information available

SECTION 16: Other information

Indication of changes:

5	Hazardous decomposition products in case of fire	Added	
10	Chemical stability	Modified	

Full text of H-statements:

H302	Harmful if swallowed
H303	May be harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation

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H372	Causes damage to organs through prolonged or repeated exposure
H402	Harmful to aquatic life
H411	Toxic to aquatic life with long lasting effects

Safety information for abrasives

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.