





## Product name: Calcium nitride

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	(Contd. of page 1)
<ul> <li>4 First-aid measures Description of first aid measures General information Immediately remove any clothing soiled by the product. After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. After swallowing Seek medical treatment. Information for doctor Most important symptoms and effects, both acute and delayed Causes serious eye damage. Indication of any immediate medical attention and special treatment needed No further relevant information available.</li></ul>	
5 Fire-fighting measures Extinguishing media Suitable extinguishing agents In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water. For safety reasons unsuitable extinguishing agents Water Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Calcium oxide Nitrogen oxides (NOx) Ammonia Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.	
6 Accidental release measures Personal precautions, protective equipment and emergency procedures Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Keep away from ignition sources Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Keep away from ignition sources. Use neutralizing agent. Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents Prevention of secondary hazards: Keep away from ignition sources. Reference to other sections See Section 7 for information on personal protection equipment. See Section 13 for disposal information.	
7 Handling and storage Handling Precautions for safe handling Handle under dry protective gas. Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Information about protection against explosions and fires: Protect against electrostatic charges. Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and receptacles: Store in a cool location. Information about storage in one common storage facility: Store away from oxidizing agents. Store away from or mair. Store away from water/moisture. Further information about storage conditions: Store under dry inert gas. This product is moisture sensitive. This product is moisture sensitive. This product is air sensitive. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Protect from humidity and water. Specific end use(s) No further relevant information available.	
8 Exposure controls/personal protection Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per n Control parameters Components with limit values that require monitoring at the workplace: Not required. Additional information: No data Exposure controls Personal protective equipment General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keen away from fondstuffs. heverances and feed	ninute.

The usual precautionary measures for handling chemicals sh Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment.

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Description of the second		(Contd. of page 2)	
Breathing equipment: Use suitable resp Protection of hands:	pirator when high concentrations are present.		
Impervious aloves			
Check protective gloves prior to each use The selection of suitable gloves not only	to their proper condition. depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.		
Eye protection: Tightly sealed goggles			
Full face protection			
Body protection: Protective work clothin	ng.		
9 Physical and chemical properties	;		
Information on basic physical and che	emical properties		
General Information Appearance:			
Form:	Pieces		
Color: Odor:	Brown Ammonia-like		
Odor threshold:	Not determined.		
pH-value:	Not applicable.		
Change in condition Melting point/Melting range:	1195 °C (2183 °F)		
Boiling point/Boiling range:	Not determined		
Sublimation temperature / start: Flash point:	Not determined Not applicable		
Flammability (solid, gaseous)	Highly'flammable.		
Ignition temperature: Decomposition temperature:	Not determined Not determined		
Auto igniting:	Not determined.		
Danger of explosion: Explosion limits:	Not determined.		
Lower:	Not determined		
Upper: Vapor pressure:	Not determined Not applicable.		
Density at 20 °C (68 °F):	2.63 g/cm <sup>3</sup> (21.947 lbs/gal)		
Relative density Vapor density	Not determined. Not applicable.		
Evaporation rate Solubility in / Miscibility with	Not applicable.		
Water:	Contact with water releases toxic gases		
Partition coefficient (n-octanol/water): Viscosity:	: Not determined.		
dynamic:	Not applicable.		
kinematic: Other information	Not applicable. No further relevant information available.		
10 Stability and reactivity			
Reactivity No information known. Chemical stability Stable under recommended storage conditions.			
Thermal decomposition / conditions to	Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications.		
Possibility of hazardous reactions Contact with water releases toxic gases			
Contact with acids releases toxic gases Conditions to avoid No further relevant information available.			
Incompatible materials:			
Air Oxidizing agents			
Water/moisture			
Hazardous decomposition products: Calcium oxide			
Nitrogen oxides Ammonia			
11 Toxicological information			
Information on toxicological effects	a strong corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach.		
LD/LC50 values that are relevant for c	classification: No data		
Skin irritation or corrosion: Causes se Eye irritation or corrosion: Causes ser			
Sensitization: No sensitizing effects kno	own.		
Germ cell mutagenicity: No effects kno Carcinogenicity: No classification data	wn. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.		
Reproductive toxicity: No effects know	on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. /n. - repeated exposure: No effects known.		
Specific target organ system toxicity -	- single exposure: No effects known.		
Aspiration hazard: No effects known. Subacute to chronic toxicity: The toxic	city of calcium compounds is generally due to the anion.		
Subacute to chronic toxicity: No effect	city of calcium compounds is generally due to the anion. ts known. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.		
	יס נוס שכא טי טעו הווטייופעציב נופ מכענב מוע טווטווט נטאוטוע טו נווא אנוטאנמווטי א ווטע אווטייוו.		
12 Ecological information			
Toxicity	ormation available		
Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available.			
Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available.			
Additional ecological information:			
General notes: Do not allow material to be released to the	he environment without proper governmental permits.		
L		(Contd. on page 4)	

Product name: Calcium nitride Do not allow undiluted product or large quantities to reach ground water, water cours Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available.		
Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.	e or sewage system.	
13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper dispo Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.	isal.	
14 Transport information		
UN-Number		
, ,	3178	
UN proper shipping name DOT Flai IMDG, IATA FLA	nmable solid, inorganic, n.o.s. (Calcium nitride) MMABLE SOLID, INORGANIC, N.O.S. (Calcium nitride)	
Transport hazard class(es)		
Label 4.1 Class 4.1 exp	Flammable solids, self-reactive substances and solid desensitised explosives. (F3) Flammable solids, self-reactive substances and solid desensitised losives	
Label 4.1 IMDG, IATA 4.1		
Class 4.1 Label 4.1	Flammable solids, self-reactive substances and solid desensitised explosives.	
Packing group		
DOT, IMDG, IATA II Environmental hazards: Not	applicable.	
Special precautions for user Wa	rning: Flammable solids, self-reactive substances and solid desensitised losives	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not		
Transport/Additional information:		
DOT Marine Pollutant (DOT): No		
· · · ·	3178, Flammable solid, inorganic, n.o.s. (Calcium nitride), 4.1, II	
15 Regulatory information         Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms <i>wow wow wow</i>		
Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only by technically qualified individual Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations The conditions of restrictions according to Article 67 and Annex XVII of the Reg	s. (EC) No. 1907/2006. Substance is not listed. gulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the	
market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substan		
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Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## 16 Other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Information to ensure with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Department issuing SDS: Global Marketing Department
Date of preparation / last revision 11/24/2015 / 
Abbrevations and acconyme:

RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-OER. Dangerous Goods Regulations by the "International Civil Aviation Organization" (IATA)
ICAO: International Civil Aviation Organization
(IATA)
ICAO: International Civil Aviation Organization
(IATA)
ICAO: International Civil Aviation Organization
(IATA)
ICAO: International Altrine Code for Dangerous Goods
Date of Dangerous Goods