

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 06/25/2014

SECTION 1: Identification of the substance/mixture

1.1. Product identifier		
Product form	:	Substance
Substance name	:	Calcium Phosphate Dibasic
Formula	:	CaHPO ₄ ·2H ₂ O
Molecular weight	:	172.09 g/mol
CAS No.	:	7789-77-7
Product code	:	LW-CAHPO4.2H2O
Synonyms	:	Calcium hydrogen phosphate
1.2. Relevant identified uses of the	sub	ostance or mixture and uses advised against
Use of the substance/mixture	:	Laboratory chemicals, Synthesis of substances
1.3. Emergency telephone number		
Emergency number	:	1.800.424.9300 (USA)
		+1.703.527.3887 (INT)

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin irritation (Category 2), H315

Eye irritation (Category 2A), H319

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335 For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2. GHS Label elements, including precautionary statements

Pictogram

Signal word:WarningHazard statement(s):Causes skin irritation.H315Causes skin irritation.:H319Causes serious eye irritation.H335May cause respiratory irritation.Precautionary statement(s):P261Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.P264Wash skin thoroughly after handling.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/ eye protection/ face protection.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER or doctor/ physician if you feel unwell.
P321	Specific treatment (see supplemental first aid instructions on this label).
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3. Hazards not otherwise classified (HNOC) or not covered by GHS

none

SECTION 3: Composition/information on ingredients			
3.1. Substances			
Formula	: CaHPO4 [·] 2H ₂ O		
Synonyms	: Calcium hydrogen phosphate		
Molecular Weight	: 172.09 g/mol		
CAS-No.	: 7789-77-7		

Hazardous components

Component	Classification	Concentration
Calcium Phosphate Dihydrate	Skin Irrit. 2; Eye Irrit. 2A;	-
	STOT SE 3; H315, H319,	
	H335	

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: Description of first aid measures

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

4.1. Description of first aid measures

General advice	:	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
First-aid measures after inhalation	:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
First-aid measures after skin contact	:	Wash off with soap and plenty of water. Consult a physician.
First-aid measures after eye contact	:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
First-aid measures after ingestion	:	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2. Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3. Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition may produce toxic fumes of phosphorus oxides and/or phosphine Oxides of phosphorus, Calcium oxide.

5.3. Advice for firefighters

Wear self-contained breathing apparatus for fire-fighting if necessary.

5.4. More Information

no data available

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

6.2. Environmental precautions

Do not let product enter drains.

6.3. Methods and material for containment and cleaning up

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection. For precautions see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection			
8.1. Control parameters Components with workplace control parameters	:	Contains no substances with occupational exposure limit values.	
8.2. Exposure controls			
Appropriate engineering controls	:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.	
8.3. Personal protective equipment			
Eye protection	:	Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).	
Skin Protection	:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.	
		Full contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min	

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

	Splash contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M) Sigma-Aldrich - 04231 Page 4 of 7 data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
	If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.
Body protection	 Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection	 For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Environmental exposure controls	: Do not let product enter drains.

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties 9.1.

Appearance	:	Form: crystalline
		Color: white
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	no data available
Melting point/freezing point	:	no data available
Initial boiling point and boiling range	:	no data available

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Flash point	:	no data available
Evaporation rate	:	no data available
Flammability (solid, gas)	:	no data available
Upper/lower flammability or explosive limits	:	no data available
Vapor pressure	:	no data available
Vapor density	:	no data available
Relative density	:	2.310 g/cm3
Water solubility	:	no data available
Partition coefficient: n-octanol/water	:	no data available
Auto-ignition temperature	:	no data available
Decomposition temperature	:	no data available
Viscosity	:	no data available
Explosive properties	:	no data available
Oxidizing properties	:	no data available
0.2 Other cafety information		

9.2. Other safety information

no data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

no data available

10.5. Incompatible materials

Strong oxidizing agents

10.6. Hazardous decomposition products

Other decomposition products - no data available In the event of fire: see section 5

SECTION 11: Toxicological information

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

11.1. Information on toxicological effects

Acute toxicity	: no data available
	Dermal: no data available
	no data available
Skin corrosion/irritation	: no data available
Serious eye damage/irritation	: no data available
Respiratory or skin sensitization	: no data available
Germ cell mutagenicity	: no data available
Carcinogenicity	
IARC:	 No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH	 No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP:	: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	 No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Reproductive toxicity	: no data available
Specific target organ toxicity (single exposure)	: Inhalation - May cause respiratory irritation.
Specific target organ toxicity	: no data available
(repeated exposure)	
Aspiration hazard	: No data available
Additional Information	: RTECS: SE0350000
	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological information 12.1. Toxicity

Toxicity to fish	:	no data available
Toxicity to daphnia and other aquatic	:	no data available
invertebrates		

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

12.2.	Persistence and degradability	:	No data available
12.3.	Bioaccumulative potential	:	No data available
12.3.	Mobility in soil	:	No data available
12.4.	Results of PBT and vPvB	:	PBT/vPvB assessment not available as chemical safety
assess	sment		assessment not required/not conducted.
12.6.	Other adverse effects	:	no data available

SECTION 13: Disposal considerations				
13.1. Waste treatment methods				
Product	 Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. 			
Contaminated Packaging	: Dispose of as unused product.			

SECTION 14: Transport information
DOT (US)
Not dangerous goods
IMDG
Not dangerous goods
ΙΑΤΑ
Not dangerous goods

SECTION 15: Regulatory information

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute Health Hazard

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

Calcium Phosphate Dibasic	CAS-No.	Revision Date
Calcium Phosphale Dibasic	CAS-NO.	Revision Date

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

	7789-77-7	
New Jersey Right To Know Components		
Calcium Phosphate Dibasic	CAS-No.	Revision Date
	7789-77-7	

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16: Other information					
Full text of H-Statements referred to under sections 2 and 3.					
Eye Irrit.	:	Eye irritation			
H315		Causes skin irritation.			
H319		Causes serious eye irritation.			
H335		May cause respiratory irritation.			
Skin Irrit.		Skin irritation			
STOT SE		Specific target organ toxicity - single exposure			
HMIS Rating					
Health Hazard	:	2			
Chronic Health Hazard	:				
Flammability	:	0			
Physical Hazard	:	0			
NFPA Rating					
Health hazard	:	2			
Fire Hazard	:	0			
Reactivity Hazard	:	0			
Eurthan Information					

Further Information

Information in this SDS is from available published sources and is believed to be accurate. No warranty, express or implied, is made and Loudwolf Holdings Ltd. assumes no liability resulting from the use of this SDS. The user must determine suitability of this information for his/her application.