Honeywell

Calcium hydroxide

21181-5KG

Version 1.1 Revision Date 02/04/2022 Print Date 05/31/2023

SECTION 1. IDENTIFICATION

Product name Calcium hydroxide

Number 000000020684

Product Use Description Laboratory chemicals

Manufacturer or supplier's

details

Honeywell Specialty Chemicals Seelze

GmbH

Wunstorfer Straße 40

Seelze, 30926

For more information call 1-800-368-0050

+1-231-726-3171(Monday-Friday, 9:00am-5:00pm)

In case of emergency call : Medical: 1-800-498-5701 or +1-303-389-1414

Transportation (CHEMTREC): 1-800-424-9300 or

+1-703-527-3887

(24 hours/day, 7 days/week)

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Form : solid

Color : colourless

Odor : odourless

Classification of the substance or mixture

Classification of the substance : Skin irritation, Category 2

or mixture

Serious eye damage, Category 1

Specific target organ toxicity - single exposure, Category 3,

Respiratory system

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GHS Label elements, including precautionary statements

Symbol(s) :





Signal word : Danger

Hazard statements : Causes skin irritation.

Causes serious eye damage. May cause respiratory irritation.

Precautionary statements : **Prevention**:

Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

Wash skin thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face

protection.

Response:

IF ON SKIN: Wash with plenty of soap and water.

IF INHALED: Remove victim to fresh air and keep at rest in a

position comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

Immediately call a POISON CENTER/ doctor.

If skin irritation occurs: Get medical advice/ attention. Take off contaminated clothing and wash before reuse.

Storage:

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Disposal:

Dispose of contents/ container to an approved waste disposal

plant.

Carcinogenicity

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, IARC, or OSHA.

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : H2CaO2

Chemical nature : Substance

Chemical nameCAS-No.ConcentrationCalcium dihydroxide1305-62-0<=100.00 %</td>

SECTION 4. FIRST AID MEASURES

General advice : First aider needs to protect himself. Move out of dangerous

area. Take off all contaminated clothing immediately.

Inhalation : If inhaled, remove to fresh air. Call a physician if irritation

develops or persists.

Skin contact : After contact with skin, wash immediately with plenty of water. If

symptoms persist, call a physician.

Eye contact : Rinse thoroughly with plenty of water, also under the eyelids.

Protect unharmed eye. Call a physician immediately.

Ingestion : When swallowed, allow water to be drunk. Do NOT induce

vomiting. Call a physician immediately.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray

Foam

Carbon dioxide (CO2)

Dry powder

Specific hazards during

firefighting

: The product itself does not burn.

In case of fire hazardous decomposition products may be

produced such as:

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Calcium oxides

Special protective equipment

for firefighters

: Wear self-contained breathing apparatus and protective suit.

Further information : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

: Evacuate personnel to safe areas.

Wear personal protective equipment. Unprotected persons

must be kept away.

Ensure adequate ventilation.

Avoid dust formation. Avoid breathing dust.

Avoid contact with skin, eyes and clothing.

Prevent further leakage or spillage if safe to do so. Environmental precautions

Should not be released into the environment.

Do not flush into surface water or sanitary sewer system. Do not allow run-off from fire fighting to enter drains or water

courses.

Methods and materials for

containment and cleaning

up

Use mechanical handling equipment.

Sweep up and shovel into suitable containers for disposal.

Dispose of in accordance with local regulations.

SECTION 7. HANDLING AND STORAGE

Handling

Precautions for safe

handling

Wear personal protective equipment. Use only in well-ventilated areas.

Avoid breathing dust.

Avoid contact with skin, eyes and clothing.

fire and explosion

Advice on protection against : Normal measures for preventive fire protection.

Storage

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Conditions for safe storage,

including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated

place.

Store in original container.

Protect from atmospheric moisture and water.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective measures : Ensure that eyewash stations and safety showers are close to

the workstation location.

Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment.

Avoid breathing dust.

Avoid contact with skin, eyes and clothing.

Engineering measures : Use with local exhaust ventilation.

Eye protection : Safety goggles

Hand protection : Impervious gloves

Gloves must be inspected prior to use.

Replace when worn.

Skin and body protection : Impervious clothing

Wear suitable protective equipment.

Respiratory protection : In case of insufficient ventilation wear suitable respiratory

equipment.

Hygiene measures : Separate rooms are required for washing, showering and

changing clothes.

Regular cleaning of equipment, work area and clothing. Contaminated work clothing should not be allowed out of the

workplace.

Exposure Guidelines

Components	CAS-No.	Value	Control parameters	Upda te	Basis
Calcium dihydroxide	1305-62-0	TWA: Time weighted average	5 mg/m3	2008	ACGIH:US. ACGIH Threshold Limit Values, as amended

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Calcium dihydroxide	1305-62-0	REL: Recomm ended exposure limit (REL):	5 mg/m3	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Calcium dihydroxide	1305-62-0	PEL: Permissi ble exposure limit	15 mg/m3	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
Further : information	Form of exposure	: Total dust	•	l .	1
Calcium dihydroxide	1305-62-0	PEL: Permissi ble exposure limit	5 mg/m3	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
Further : information	Form of exposure	: Respirable	e fraction.		
Calcium dihydroxide	1305-62-0	TWA : Time weighted average	5 mg/m3	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : solid

Color : colourless

Odor : odourless

Odor threshold : Note: No data available

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pH : 12.0 - 13.0 at , 20 °C

Note: Saturated solution

Melting point/range : 580 °C

Boiling point/boiling range : Note: Not applicable, Decomposes on heating.

Flash point : Note: Not applicable

Evaporation rate : Note: No data available

Flammability : The product is not flammable.

Lower explosion limit : Note: Not applicable

Upper explosion limit : Note: Not applicable

Vapor pressure : Note: No data available

Vapor density : Note: No data available

Density : 2.24 g/cm3 at 20 °C

Water solubility : 1.7 g/l at 20 °C

Partition coefficient:

n-octanol/water

: Note: No data available

Ignition temperature : Note: Not applicable

Auto-ignition temperature : Note: not auto-flammable

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Viscosity, dynamic : Note: No data available

Viscosity, kinematic : Note: No data available

Molecular weight : 74.1 g/mol

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard.

Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

: Hazardous polymerisation does not occur.

Possible incompatibility with alkali sensitive materials.

Exothermic reaction with strong acids.

Conditions to avoid : Protect from moisture.

Incompatible materials : Acids

Maleic anhydride Phosphorus Nitro compounds

Hazardous decomposition

products

: In case of fire hazardous decomposition products may be

produced such as: Calcium oxide

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50: 7,340 mg/kg

Species: Rat

Acute inhalation toxicity : Note: No data available

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Acute dermal toxicity : LD50: > 2,500 mg/kg

Skin irritation : Species: Rabbit

Result: Irritating to skin.

Eye irritation : Species: Rabbit

Result: Risk of serious damage to eyes. Method: OECD Test Guideline 405

Sensitisation : Note: No data available

Genotoxicity in vitro : Note: No data available

Further information : Note: Strong irritating effect on the respiratory tract and the

lungs.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish : LC50: 160 mg/l

Exposure time: 96 h

Species: Gambusia affinis (Mosquito fish)

: LC50: 50.6 mg/l Exposure time: 96 h

Species: Oncorhynchus mykiss (rainbow trout)

Method: OECD Test Guideline 203

Toxicity to daphnia and other : EC50: 49.1 mg/l

aquatic invertebrates

EC50: 49.1 mg/l Exposure time: 48 h

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 202

Note: No data available

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Toxicity to algae : EC50: 185 mg/l

Exposure time: 72 h

Species: Pseudokirchneriella subcapitata (green algae)

Method: OECD Test Guideline 201

: NOEC: 48 mg/l Exposure time: 72 h

Species: Pseudokirchneriella subcapitata (green algae)

Method: OECD Test Guideline 201

Toxicity to bacteria : EC20: 229.2 mg/l

Species: activated sludge

Method: OECD Test Guideline 209

Elimination information (persistence and degradability)

Biodegradability : Note: The methods for determining the biological degradability

are not applicable to inorganic substances.

Further information on ecology

Additional ecological

information

: None.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods : Observe all Federal, State, and Local Environmental

regulations.

SECTION 14. TRANSPORT INFORMATION

DOT Not dangerous goods

TDG Not dangerous goods

IATA Not dangerous goods

IMDG Not dangerous goods

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SECTION 15. REGULATORY INFORMATION

Inventories

US. Toxic Substances

Control Act

: On TSCA Inventory

Australia, Industrial Chemicals Act (AIIC), as

amended

: On the inventory, or in compliance with the inventory

Canada, Canadian **Environmental Protection**

Act (CEPA). Domestic Substances List (DSL) : All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List : On the inventory, or in compliance with the inventory

Korea. Existing Chemicals

Inventory (KECI)

: On the inventory, or in compliance with the inventory

Philippines. Inventory of Chemicals and Chemical Substances (PICCS)

: On the inventory, or in compliance with the inventory

Chemical Substances

(IECSC)

China. Inventory of Existing : On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New

Zealand

: On the inventory, or in compliance with the inventory

National 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)

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reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards : Acute Health Hazard

California Prop. 65 : This product does not contain any chemicals known to State of

California to cause cancer, birth defects, or any other

reproductive harm.

Massachusetts RTK : Calcium dihydroxide 1305-62-0

New Jersey RTK : Calcium dihydroxide 1305-62-0

Pennsylvania RTK : Calcium dihydroxide 1305-62-0

SECTION 16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 3	3
Flammability	: 0	0
Physical Hazard	: 0	
Instability	:	0

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

SAFETY DATA SHEET		Honeywell		
Calcium hydroxide				
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Version 1.1	Revision Date 02/04/2022	Print Date 05/31/2023		
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