

SAFETY DATA SHEET

Version 6.4 Revision Date 09/19/2021 Print Date 12/01/2021

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

1.1 **Product identifiers**

Product name Drierite™

Product Number 238961 Brand **SIGALD** CAS-No. : 7778-18-9

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

: Sigma-Aldrich Inc. Company

3050 SPRUCE ST ST. LOUIS MO 63103 **UNITED STATES**

Telephone +1 314 771-5765 +1 800 325-5052

Emergency telephone 1.4

Fax

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-

527-3887 CHEMTREC (International) 24

Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Respiratory sensitization (Category 1), H334 Skin sensitization (Category 1), H317 Germ cell mutagenicity (Category 2), H341

Carcinogenicity, Inhalation (Category 1B), H350

Reproductive toxicity (Category 1B), H360

Short-term (acute) aquatic hazard (Category 2), H401 Long-term (chronic) aquatic hazard (Category 2), H411

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

2.2 GHS Label elements, including precautionary statements

Pictogram



Hazard statement(s) H317 May cause an allergic skin reaction. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H341 Suspected of causing genetic defects. H350 May cause cancer by inhalation. H360 May damage fertility or the unborn child. H411 Toxic to aquatic life with long lasting effects. Precautionary statement(s) P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. P272 Contaminated work clothing must not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P285 In case of inadequate ventilation wear respiratory protection. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P304 + P341 IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. P308 + P313 IF exposed or concerned: Get medical advice/ attention. P363 Wash contaminated clothing before reuse. Collect spillage. P305 Store locked up. P501 Dispose of contents/ container to an approved waste disposal	Signal word	Danger
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2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3: Composition/information on ingredients

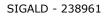
3.2 Mixtures

Synonyms : Calcium sulfate

Formula : CaO₄S

Molecular weight : 136.14 g/mol

Component		Classification	Concentration
Calcium sulfate			
CAS-No.	7778-18-9		>= 90 - <=
EC-No.	231-900-3		100 %
Registration			
number	01-2119444918-26-		
	XXXX		
Cobalt(II) chloride			
CAS-No.	7646-79-9	Acute Tox. 4; Resp. Sens.	>= 1 - < 5 %
EC-No.	231-589-4	1; Skin Sens. 1A; Muta. 2;	





Index-No.	027-004-00-5	Carc. 1B; Repr. 1B;	
		Aquatic Acute 1; Aquatic	
		Chronic 1; H302, H334,	
		H317, H341, H350, H360,	
		H400, H410	
		Concentration limits:	
		>= 0.01 %: Carc. 1B,	
		H350;	
		M-Factor - Aquatic Acute:	
		10 - Aquatic Chronic: 10	

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

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

If inhaled

After inhalation: fresh air. Call in physician.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

In case of eye contact

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

If swallowed

After swallowing: immediately make victim drink water (two glasses at most). 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

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.



5.2 Special hazards arising from the substance or mixture

Sulfur oxides
Hydrogen chloride gas
Cobalt/cobalt oxides
Calcium oxide
Not combustible.

Ambient fire may liberate hazardous vapours.

5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid generation and inhalation of dusts in all circumstances. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Work under hood. Do not inhale substance/mixture.

Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

hygroscopic

Storage class



Storage class (TRGS 510): 6.1D: Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

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

Ingredients with workplace control parameters

Ingredients with workplace control parameters					
Component	CAS-No.	Value	Control	Basis	
			parameters		
Calcium sulfate	7778-18-9	TWA	5 mg/m3	USA. NIOSH Recommended	
				Exposure Limits	
		TWA	10 mg/m3	USA. NIOSH Recommended	
				Exposure Limits	
		TWA	15 mg/m3	USA. Occupational Exposure	
				Limits (OSHA) - Table Z-1	
				Limits for Air Contaminants	
		TWA	5 mg/m3	USA. Occupational Exposure	
				Limits (OSHA) - Table Z-1	
				Limits for Air Contaminants	
		TWA	15 mg/m3	USA. OSHA - TABLE Z-1 Limits	
				for Air Contaminants -	
				1910.1000	
		TWA	5 mg/m3	USA. OSHA - TABLE Z-1 Limits	
				for Air Contaminants -	
				1910.1000	
		PEL	10 mg/m3	California permissible exposure	
				limits for chemical	
				contaminants (Title 8, Article	
				107)	
		PEL	5 mg/m3	California permissible exposure	
				limits for chemical	
				contaminants (Title 8, Article	
				107)	
		TWA	10 mg/m3	USA. ACGIH Threshold Limit	
				Values (TLV)	
Cobalt(II) chloride	7646-79-9	TWA	0.02 mg/m3	USA. ACGIH Threshold Limit	
		Values (TLV)			
	Remarks	Dermal Sensitization			
		Respiratory sensitization			
		Confirmed animal carcinogen with unknown relevance to			
		humans			

Biological occupational exposure limits

biological occupational exposure inines					
Component	CAS-No.	Parameters	Value	Biological specimen	Basis
Cobalt(II) chloride	7646-79-9	Cobalt	15 μg/l	Urine	ACGIH - Biological Exposure Indices (BEI)



Remarks	End of shift at end of workweek		
	Cobalt	Urine	ACGIH - Biological Exposure Indices (BEI)
	End of shift at end of workweek		

8.2 Exposure controls

Appropriate engineering controls

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection

Handle with impervious gloves.

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested: KCL 741 Dermatril® L

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested: KCL 741 Dermatril® L

Body Protection

protective clothing

Respiratory protection

required when dusts are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure

Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance Form: solid

b) Odor No data available



c) Odor Threshold No data available No data available d) pH e) Melting No data available point/freezing point Initial boiling point No data available f) and boiling range g) Flash point ()Not applicable h) Evaporation rate No data available Flammability (solid, The product is not flammable. i) gas) Upper/lower No data available j) flammability or explosive limits k) Vapor pressure No data available Vapor density No data available m) Density No data available No data available Relative density n) Water solubility No data available o) Partition coefficient: No data available n-octanol/water

p) Autoignition temperature Not applicable

q) Decomposition temperature

No data available

Viscosity No data available r)

Explosive properties Not classified as explosive.

Oxidizing properties none

Other safety information 9.2

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

no information available

10.5 Incompatible materials

Oxidizing agents, Alkali metals, Strong oxidizing agents



10.6 Hazardous decomposition products

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Mixture

Acute toxicity

Oral: No data available

Inhalation: No data available Dermal: No data available

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

Mixture may cause allergy or asthma symptoms or breathing difficulties if inhaled. Mixture may cause an allergic skin reaction.

Germ cell mutagenicity

No data available

Evidence of genetic defects.

Carcinogenicity

Possible carcinogen.

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Cobalt(II) chloride)

2B - Group 2B: Possibly carcinogenic to humans (Cobalt(II) chloride)

NTP: No ingredient 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

on OSHA's list of regulated carcinogens.

Reproductive toxicity

No data available May harm the unborn child. No data available May impair fertility.

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

11.2 Additional Information

Blood disorders, Nausea, Vomiting, Diarrhea

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Other dangerous properties can not be excluded.

This substance should be handled with particular care.

Stomach - Irregularities - Based on Human Evidence

Components

Calcium sulfate

Acute toxicity

LD50 Oral - Rat - female - > 1,581 mg/kg

(Fixed Dose Method)

LC50 Inhalation - Rat - male and female - 4 h - > 3.26 mg/l

(OECD Test Guideline 403) Dermal: No data available

No data available

Skin corrosion/irritation

Skin - Rabbit

Result: No skin irritation (OECD Test Guideline 404)

Serious eye damage/eye irritation

Eyes - Rabbit

Result: No eye irritation (OECD Test Guideline 405)

Respiratory or skin sensitization

Buehler Test - Guinea pig

Did not cause sensitization on laboratory animals.

(OECD Test Guideline 406)

Germ cell mutagenicity

Test Type: in vitro test

Test system: S. typhimurium

Result: negative

Method: Mutagenicity (micronucleus test)

Species: Mouse - male

Result: negative

Carcinogenicity

No data available

Reproductive toxicity

No data available No data available

Specific target organ toxicity - single exposure

No data available



Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Cobalt(II) chloride

Acute toxicity

LD50 Oral - Rat - male and female - 537 mg/kg

(OECD Test Guideline 401) Inhalation: No data available

LD50 Dermal - Rat - male and female - > 2,000 mg/kg

(OECD Test Guideline 402)

No data available

Skin corrosion/irritation

Skin - Rabbit

Result: No skin irritation - 4 h (OECD Test Guideline 404)

Serious eye damage/eye irritation

Eyes - Rabbit Result: Corrosive

(OECD Test Guideline 405)

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

Suspected of causing genetic defects.

Test Type: Ames test

Test system: S. typhimurium

Result: negative

Method: OECD Test Guideline 475 Species: Mouse - male and female

Result: negative

Carcinogenicity

Carcinogenicity- Mouse- male and female- inhalation (vapor)

Remarks: May cause cancer by inhalation.

Reproductive toxicity

Presumed human reproductive toxicant

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available



SECTION 12: Ecological information

12.1 Toxicity

Mixture

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

Components

Calcium sulfate

LC50 - Lepomis macrochirus - 2,980 mg/l - 96 h Toxicity to fish

Cobalt(II) chloride

Toxicity to fish flow-through test LC50 - Danio rerio (zebra fish) - 85.3 mg/l -

96 h

Remarks: (ECHA)

Toxicity to daphnia

and other aquatic

invertebrates

flow-through test LC50 - Chironomus sp. - 429 mg/l - 96 h

Remarks: (ECHA)

static test ErC50 - Dunaliella tertiolecta (marine algae) - 71.314 Toxicity to algae

> mg/l - 96 hRemarks: (ECHA)

Toxicity to bacteria static test EC50 - activated sludge - 120 mg/l - 30 min

(OECD Test Guideline 209)

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.



SECTION 14: Transport information

DOT (US)

Not dangerous goods

IMDG

UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(Cobalt(II) chloride) Marine pollutant : yes

IATA

UN number: 3077 Class: 9 Packing group: III

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Cobalt(II)

chloride)

Further information

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.Packages smaller than or equal to 5 kg / L , not dangerous goods of

Class 9

SECTION 15: Regulatory information

SARA 302 Components

This material does not contain any components with a section 302 EHS TPQ.

SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313:

Cobalt(II) chloride CAS-No. Revision Date 2015-07-08

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

CAS-No. Revision Date Calcium sulfate 7778-18-9 2016-09-09

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

Pennsylvania Right To Know Components

Calcium sulfate CAS-No. Revision Date 7778-18-9 2016-09-09

New Jersey Right To Know Components

Calcium sulfate CAS-No. Revision Date 7778-18-9 2016-09-09

Cobalt(II) chloride 7646-79-9 2015-07-08

SIGALD - 238961

MILLIPORE

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SECTION 16: Other information

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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