

000090300070_EU_EN DiveSorb Pro

Print date 06.07.2022
Revision date 10.03.2022
Version 4.9 (en,EU)
replaces version of 02.08.2021 (4.8)

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

1.1 Product identifier

Trade name/designation DiveSorb Pro
Prod-Nr 6737062; 6737109; 6737818; 3700230

Hazard components for labelling
Calcium hydroxide, sodium hydroxide

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

Sector of uses [SU]
SU0 Other

Process categories [PROC]
PROC8a Transfer of substance or mixture (charging and discharging) at non- dedicated facilities
Professional:
PROC0 Other

Environmental release categories [ERC]
ERC11a Widespread use of articles with low release (indoor)

Article categories [AC]
AC2 Machinery, mechanical appliances, electrical/electronic articles

*** Use of the substance/mixture**
As an absorbent for carbon dioxide in diving equipment
As an absorbent for carbon dioxide in diving equipment, as soda lime.
Adsorbent or absorbent

Uses advised against
Do not use for private purposes (household).

Remark
Adsorbs carbon dioxide from the air
none

*** 1.3 Details of the supplier of the safety data sheet**

Supplier
Dräger Safety AG & Co. KGaA
Revalstr. 1
DE-23560 Lübeck
Telephone +49 (0) 451/882-0
Telefax: +49 (0) 451/882-2080
E-mail info@draeger.com

Department responsible for information:
Dräger Global EHS Management
Telephone +49 (0) 451 / 882-6979
Telefax: +49 (0) 451 / 882-76979
Website www.draeger.com

E-mail (competent person):
sds@draeger.com

1.4 Emergency telephone number

Giftinformationszentrum Nord, Göttingen; Tel. (0551) 1 92 40 +49 (0) 451/ 882-2395 (Dräger Werkschutz)

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]	Classification procedure
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Skin Irrit. 2, H315

Eye Dam. 1, H318

Hazard statements for health hazards

H315 Causes skin irritation.

H318 Causes serious eye damage.

Remark

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].
none

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard components for labelling

Calcium hydroxide, sodium hydroxide

Hazard pictograms



GHS05

Signal word

Danger

Hazard statements

H315 Causes skin irritation.

H318 Causes serious eye damage.

Precautionary statements

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing and eye/face protection.

P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P302 + P352 IF ON SKIN: Wash with plenty of water/....

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P410 Protect from sunlight.

P411 Keep at temperatures not exceeding 50 ° C.

Supplemental hazard information

EUH066 Repeated exposure may cause skin dryness or cracking.

Special rules for supplemental label elements for certain mixtures

not determined

special rules for labelling of plant protection products

not applicable

Special rules on packaging

not determined

Other labelling

not applicable

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2.3 Other hazards

Adverse physicochemical effects
not determined

Adverse human health effects and symptoms
Due to its pH value (see section 9), irritation of the skin and eyes cannot be ruled out.
Inhalation of dust may cause irritation of the respiratory system.

Adverse environmental effects
not determined

Other adverse effects
not determined

Results of PBT and vPvB assessment
not determined

* SECTION 3: Composition / information on ingredients

3.1 Substances

not applicable

* 3.2 Mixtures

Hazardous ingredients

CAS No.	EC No.	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
1305-62-0	215-137-3	Calcium hydroxide	78 - 84 %	Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335	
7732-18-5	231-791-2	Water	14 - 18 %		
1310-73-2	215-185-5	sodium hydroxide	2 - 4 %	Met. Corr. 1; H290 Skin Corr. 1A; H314	Skin Corr. 1A; H314: C>=5% Skin Corr. 1B; H314: 2%<=C<5% Skin Irrit. 2; H315: 0.5%<=C<2% Eye Irrit. 2; H319: 0.5%<=C<2%

REACH No.	Substance name
01-2119475151-45-033	Calcium hydroxide
-	Water
01-2119457892-27-xxxx	sodium hydroxide

Remark
none

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SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Remove contaminated, saturated clothing immediately.

Following inhalation

Remove casualty to fresh air and keep warm and at rest.
In the event of symptoms refer for medical treatment.

Following skin contact

Wash immediately with:
Water
In case of skin irritation, consult a physician.

After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Following ingestion

Do NOT induce vomiting.
Let water be drunk in little sips (dilution effect).

4.2 Most important symptoms and effects, both acute and delayed

Symptoms

not determined

Effects

gastric perforation

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor

not determined

SECTION 5: Firefighting measures

5.1 Extinguishing media

Unsuitable extinguishing media

Carbon dioxide (CO₂)

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

not determined

5.3 Advice for firefighters

Special protective equipment for firefighters

none

Additional information

The product itself does not burn.
Co-ordinate fire-fighting measures to the fire surroundings.
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Avoid dust formation.
Use personal protection equipment.
Wear breathing apparatus if exposed to vapours/dusts/aerosols.

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6.2 Environmental precautions

Collect contaminated water / firefighting water separately.
Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

For containment

Flush away residues with water.
Take up mechanically and send for disposal.

For cleaning up

Avoid dust formation.

6.4 Reference to other sections

Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

While filling and pouring suck off filling place.
Avoid the formation and deposition of dust.
No special measures are necessary.
Use only alkali-resistant equipment.
Do not return residues to the storage containers.
Take the usual precautions when handling with chemicals.
The product is not:
Combustible
No special fire protection measures are necessary.
Usual measures for fire prevention.
Avoid:
Generation/formation of dust
Eye contact
Skin contact
Do not inhale dust.

Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff.
Remove contaminated, saturated clothing immediately.
Wash hands and face before breaks and after work and take a shower if necessary.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep/Store only in original container.
Keep container tightly closed.

Storage class

13 Non-combustible solids that cannot be assigned to any of the above storage classes

Materials to avoid

Do not store together with:
Acid

Further information on storage conditions

Keep only in the original container in a cool, well-ventilated place.
Keep away from:
Acid
Keep container tightly closed in a cool, well-ventilated place.
Storage temperature may not exceed 50°C (=122°F).
Store at 5 to 40°C (=41 to 104°F).
Close container again moistureproof after taking sample.
Limited stability, look up product instructions.

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7.3 Specific end use(s)

Recommendation
 not determined

Industrial sector specific solutions
 not determined

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Occupational exposure limit values**

CAS No.	EC No.	Substance name	occupational exposure limit value
1305-62-0	215-137-3	Calcium dihydroxide	1 Respirable fraction [mg/m ³] Short-term(mg/m ³) 4 Respirable fraction 2017/164/EU
1305-62-0	215-137-3	Calcium hydroxide	- [ml/m ³ (ppm)] 5 [mg/m ³] Short-term(ml/m ³) - Short-term(mg/m ³) - EU

8.2 Exposure controls**Appropriate engineering controls**

Technical measures to prevent exposure
 not determined

Personal protection equipment**Eye/face protection**

safety goggles
 Do not wear contact lenses.

Hand protection

Gloves (alkali-resistant)

Full contact: Glove material: nitrile rubber, glove thickness: 0.11 mm, Breakthrough time:> 480 min

Splash contact: Glove material: nitrile rubber, glove thickness: 0.11 mm, Breakthrough time:> 480 min

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the resultant standard EN374.

The above breakthrough times were measured with samples of the recommended glove types of KCL in laboratory tests to EN374.

This recommendation applies only to the product stated in the safety that comes from us and the purpose specified by us.

When dissolving in or mixing with other substances and under different conditions of the EN 374, you need to contact the supplier of CE-approved gloves (eg KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de)

Body protection:

Light protective clothing.

Respiratory protection

Suitable respiratory protection apparatus:

Particle-filtering half mask, filter P2

In case of dust formation wear micro dust mask.

Environmental exposure controls

Technical measures to prevent exposure
 not determined

Additional information

none

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SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties****Physical state**

solid

Colour

white

Odour

odourless

Safety relevant basis data

	Value	Method	Source, Remark
Odour threshold:	not determined		
Melting point/freezing point	not determined		
Boiling point or initial boiling point and boiling range	not determined		
flammability	solid		not applicable
flammability	gaseous		not applicable
Lower and upper explosion limit	Upper explosion limit		not applicable
Lower and upper explosion limit	Lower explosion limit		not applicable
Flash point			not applicable
Auto-ignition temperature			not determined
Auto-ignition temperature			not determined
Decomposition temperature		not determined	not determined
pH	in delivery state approx. 12		suspension in water
Viscosity	not applicable		
Viscosity	not applicable		
Solubility(ies)	Water solubility approx. 1 g/L		
Solubility(ies)	not determined		
Partition coefficient n-octanol/water (log value)			not applicable
Vapour pressure			not determined
Density and/or relative density			not determined
Density and/or relative density	Bulk density approx. 730- 930 kg/m ³		
Relative vapour density			not applicable
particle characteristics	not determined		

9.2 Other information**Other safety characteristics**

	Value	Method	Source, Remark
Solvent content			not applicable
Water content	approx. 14- 18 %		
Solid content			not applicable

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	Value	Method	Source, Remark
acid number			not determined
Solvent separation test			not applicable
Explosive properties:			none
Oxidising properties			none
Other information			
none			

SECTION 10: Stability and reactivity

10.1 Reactivity

not determined

10.2 Chemical stability

not determined

10.3 Possibility of hazardous reactions

not determined

10.4 Conditions to avoid

Reactions with acids.
Strong exothermic reaction with acids.
Reactions with light metals in the presence of moisture, with evolution of hydrogen.
Reactions with base metals, with evolution of hydrogen.
In aqueous solution, evolves hydrogen with metals.
Evolution of heat under influence of acids.
Reactions with aluminium at high temperature.

10.5 Incompatible materials

Light metals
Formation of:
Hydrogen

10.6 Hazardous decomposition products

not determined

Additional information

none

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Animal data

	Effective dose	Method, Evaluation	Source, Remark
Acute oral toxicity	Species not determined	not determined	none not determined
Acute dermal toxicity	Species not determined	not determined	none not determined
Acute inhalation toxicity	Species not determined	not determined	none not determined

Skin corrosion/irritation

Animal data

Result / Evaluation	Method	Source, Remark
non-irritant. Species Rabbit	OECD 404	none

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Serious eye damage/irritation

Animal data

Result / Evaluation	Method	Source, Remark
Risk of serious damage to eyes. Species Rabbit	OECD 405	none

Sensitisation to the respiratory tract

Assessment/classification
not determined

Skin sensitisation

Animal data

Result / Evaluation	Dose / Concentration	Method	Source, Remark
not determined	Species not determined	not determined	none

Germ cell mutagenicity

	Value	Method	Result / Evaluation	Remark
In vitro mutagenicity/genotoxicity	Species not determined	not determined	none	not determined

Carcinogenicity

Animal data

	Value	Method	Result / Evaluation	Remark
Carcinogenicity	Species not determined	not determined	none	not determined

Reproductive toxicity

Animal data

	Value	Method	Result / Evaluation	Remark
Reproductive toxicity	Species not determined	not determined	none	not determined

STOT-single exposure

STOT SE 1 and 2

Animal data

	Effective dose	Method	Specific effects:	Organs affected:	Source, Remark
Oral specific target organ toxicity (single exposure)	Species not determined	not determined			none not determined
Dermal specific target organ toxicity (single exposure)	Species not determined	not determined			none not determined
Inhalative specific target organ toxicity (single exposure)	Species not determined	not determined			none not determined

STOT-repeated exposure

Animal data

	Effective dose	Method	Specific effects:	Organs affected:	Source, Remark
Oral specific target organ toxicity (repeated exposure)	Species not determined	not determined			none not determined
Oral specific target organ toxicity (repeated exposure)	Species not determined	not determined			none not determined
Dermal specific target organ toxicity (repeated exposure)	Species not determined	not determined			none not determined

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	Effective dose	Method	Specific effects:	Organs affected:	Source, Remark
Dermal specific target organ toxicity (repeated exposure)	Species not determined	not determined			none not determined
Inhalative specific target organ toxicity (repeated exposure)	Species not determined	not determined			none not determined
Inhalative specific target organ toxicity (repeated exposure)	Species not determined	not determined			none not determined

11.2 Information on other hazards

No data available

Other information

none

In an intended use will not occur dusts that may cause irritation of the mucous membranes of the respiratory tract.

SECTION 12: Ecological information**12.1 Toxicity****Aquatic toxicity**

	Effective dose	Method, Evaluation	Source, Remark
Acute (short-term) fish toxicity	Species not determined	not determined	none
Chronic (long-term) fish toxicity	not determined		
Acute (short-term) toxicity to crustacea	Species not determined	not determined	
Chronic (long-term) toxicity to aquatic invertebrate	not determined		
Acute (short-term) toxicity to algae and cyanobacteria	Species not determined	not determined	none
Chronic (long-term) toxicity to aquatic algae and cyanobacteria	not determined		
Toxicity to other aquatic plants/organisms	not determined		
Toxicity to microorganisms	Species not determined	not determined	none

12.2 Persistence and degradability

	Value	Method	Source, Remark
Biodegradation		not determined	none not determined
Biodegradation		not determined	none not determined

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

Assessment/classification
not determined

12.5 Results of PBT and vPvB assessment

not determined

12.6 Endocrine disrupting properties

No data available

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12.7 Other adverse effects

Additional ecotoxicological information

	Value	Method	Source, Remark
Chemical oxygen demand (COD)		not determined	none not determined
Biochemical oxygen demand		not determined	none not determined
Total organic carbon (TOC):		not determined	none not determined
AOX			not applicable

Additional information

Due to the product's consistency dispersion into the environment is not possible.
Due to the consistency along with the low water solubility of the product a bioavailability is unlikely.
Product does not cause biological oxygen loss.
Ecological data are not available.
Do not allow uncontrolled discharge of product into the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste codes/waste designations according to EWC/AVV

Waste code product	Waste name
160303 *	inorganic wastes containing hazardous substances
160507 *	discarded inorganic chemicals consisting of or containing hazardous substances

Appropriate disposal / Product

Dispose of waste according to applicable legislation.
Dispose of waste according to "Kreislaufwirtschaftsgesetz (KrWG)".

Appropriate disposal / Package

Completely emptied packages can be recycled.
Recycle sales packaging via DSD (Duales System Deutschland).

Remark

May be disposed of in household waste landfill.
The packs are preferred with respect to, the local / national regulations for reuse or for recycling.
HDPE canister or PE plastic bag, rinse with water and recycle as grade plastic.

SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number or ID number	-	-	-
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No	No	No

14.6 Special precautions for user

none

14.7 Maritime transport in bulk according to IMO instruments

not applicable

All transport carriers

The Dräger soda lime is not hygroscopic and contains less than 4% NaOH. He is not under UN1907.

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Land transport (ADR/RID)

Remark

Not classified for this transport carrier.

Sea transport (IMDG)

Remark

Not classified for this transport carrier.

Air transport (ICAO-TI / IATA-DGR)

Remark

Not classified for this transport carrier.

SECTION 15: Regulatory information

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

EU legislation

Authorisations

not applicable

Restrictions on use

none

Other regulations (EU)

To follow:

Regulation (EEC) No. 259/93 on the supervision and control of shipments of waste within, into and out of the European Community.
none

15.2 Chemical Safety Assessment

National regulations

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Key literature references and sources for data

not determined

Training advice

not determined

Additional information

National and local regulations concerning chemicals shall be observed.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Relevant H- and EUH-phrases (Number and full text)

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.

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Indication of changes

* Data changed compared with the previous version