

# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

Lohnabfüllung: Collodium Collodium 4%

Revision date: 27.05.2022 Product code: 21466 Page 1 of 13

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

#### 1.1. Product identifier

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

#### Use of the substance/mixture

Laboratory chemicals

Industrial uses: Uses of substances as such or in preparations at industrial sites

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

### Uses advised against

Do not use for private purposes (household).

### 1.3. Details of the supplier of the safety data sheet

Company name:

Street:

Stempelstraße 6

Place:

D-47167 Duisburg

Telephone:

0203/5194-0

Telephone: 0203/5194-0 Telefax: 0203/5194-290

e-mail: info@berndkraft.de

Contact person: Abteilung Produktsicherheit Telephone: 0203/5194-107/117

e-mail: produktsicherheit@berndkraft.de

Internet: www.berndkraft.de

Responsible Department: Abteilung Produktsicherheit

1.4. Emergency telephone For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada:

Exposure, or Accident Can Orlew The Day of Figure Willing Con and Canad

1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls

accepted)

#### **Further Information**

This product is a mixture. REACH Registration Number see section 3.

### **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

### Regulation (EC) No 1272/2008

Flam. Liq. 1; H224 Acute Tox. 4; H302 STOT SE 3; H336

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

### Regulation (EC) No 1272/2008

# Hazard components for labelling

diethyl ether

Signal word: Danger

Pictograms:





### **Hazard statements**

H224 Extremely flammable liquid and vapour.



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H302 Harmful if swallowed.

H336 May cause drowsiness or dizziness.

### **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smokina.

P241 Use explosion-proof electrical/ventilating/lighting equipment.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water

or shower.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

### 2.3. Other hazards

No information available.

# **SECTION 3: Composition/information on ingredients**

### 3.2. Mixtures

### **Hazardous components**

CAS No	Chemical name			Quantity	
	EC No	Index No	REACH No		
	Classification (Regulation	(EC) No 1272/2008)			
60-29-7	diethyl ether			60 - < 65 %	
	200-467-2	603-022-00-4	01-2119535785-29		
	Flam. Liq. 1, Acute Tox. 4, STOT SE 3; H224 H302 H336 EUH019 EUH066				
64-17-5	ethanol	ethanol			
	200-578-6	603-002-00-5	01-2119457610-43		
	Flam. Liq. 2, Eye Irrit. 2; H225 H319				

Full text of H and EUH statements: see section 16.

### Specific Conc. Limits, M-factors and ATE

		****	
CAS No	EC No	Chemical name	Quantity
	Specific Conc. I	Limits, M-factors and ATE	
60-29-7	200-467-2	diethyl ether	60 - < 65 %
	inhalation: LC5 mg/kg	0 = 32000 mg/l (vapours); dermal: LD50 = > 20000 mg/kg; oral: LD50 = 1600	
64-17-5	200-578-6	ethanol	35 - < 40 %
	inhalation: LC5	0 = 124,7 mg/l (vapours); oral: LD50 = 10470 mg/kg	

### **Further Information**

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

## **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

### **General information**

No data available

#### After inhalation

Provide fresh air.



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If breathing is irregular or stopped, administer artificial respiration.

Call a physician immediately.

#### After contact with skin

Take off immediately all contaminated clothing and wash it before reuse.

#### After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Remove contact lenses, if present and easy to do. Continue rinsing.

#### After ingestion

Observe risk of aspiration if vomiting occurs.

Call a physician immediately.

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

May cause drowsiness or dizziness.

Dyspnoea

Anaesthetic state

#### 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

Water spray jet, Carbon dioxide (CO2), Foam, Extinguishing powder.

#### Unsuitable extinguishing media

no restriction

## 5.2. Special hazards arising from the substance or mixture

Combustible liquids

Hazardous combustion products

In case of fire may be liberated: Carbon dioxide (CO2), Carbon monoxide

Vapours are heavier than air, spread along floors and form explosive mixtures with air.

Heating causes rise in pressure with risk of bursting.

### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

In case of fire and/or explosion do not breathe fumes.

Avoid contact with skin, eyes and clothes.

# **Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Move undamaged containers from immediate hazard area if it can be done safely.

Use water spray jet to protect personnel and to cool endangered containers.

# **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

## General advice

Keep away from sources of ignition - No smoking.

This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe).

Take action to prevent static discharges.

#### For non-emergency personnel

Provide adequate ventilation.



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Use personal protection equipment.

Avoid contact with skin, eyes and clothes.

Remove persons to safety.

Emergency procedures

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

#### For emergency responders

Precautionary statements For emergency responders: Personal protection equipment: see section 8

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.

Danger of explosion

# 6.3. Methods and material for containment and cleaning up

#### For containment

Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers).

Collect in closed and suitable containers for disposal.

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

#### For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

#### Other information

Provide adequate ventilation.

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

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

## 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

### **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

#### Advice on safe handling

Read label before use. Handle and open container with care.

When using do not eat, drink, smoke, sniff. Keep container tightly closed.

Use personal protection equipment.

Do not breathe vapour/aerosol. Provide adequate ventilation.

#### Advice on protection against fire and explosion

Take action to prevent static discharges. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

### Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs.

#### Further information on handling

Take off immediately all contaminated clothing and wash it before reuse.

Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. If handled uncovered, arrangements with local exhaust ventilation have to be used.

Store in a place accessible by authorized persons only.

# 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep in a cool, well-ventilated place.



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Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

### Hints on joint storage

Do not store together with: Oxidising agent. Pyrophoric or self-heating substances.

# Further information on storage conditions

Keep cool. Protect from sunlight.

# 7.3. Specific end use(s)

Laboratory chemicals

# **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters

### Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
64-17-5	Ethyl alcohol	1000	-		STEL (15 min)	
60-29-7	Ethyl ether	100	308		TWA (8 h)	
		200	616		STEL (15 min)	

### **DNEL/DMEL values**

CAS No	Substance				
DNEL type		Exposure route	Effect	Value	
60-29-7	diethyl ether				
Worker DNEL	, long-term	inhalation	systemic	308 mg/m³	
Worker DNEL	, acute	inhalation	systemic	616 mg/m³	
Worker DNEL	, long-term	dermal	systemic	44 mg/kg bw/day	
Consumer DN	EL, long-term	inhalation	systemic	54,5 mg/m³	
Consumer DNEL, long-term		dermal	systemic	15,6 mg/kg bw/day	
Consumer DN	Consumer DNEL, long-term		systemic	15,6 mg/kg bw/day	
64-17-5	ethanol				
Worker DNEL	, long-term	inhalation	systemic	950 mg/m³	
Worker DNEL, long-term		dermal	systemic	343 mg/kg bw/day	
Consumer DNEL, long-term		inhalation	systemic	114 mg/m³	
Consumer DNEL, long-term		dermal	systemic	206 mg/kg bw/day	
Consumer DN	EL, long-term	oral	systemic	87 mg/kg bw/day	



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#### **PNEC values**

CAS No	Substance	
Environmen	tal compartment	Value
60-29-7	diethyl ether	
Freshwater		2 mg/l
Freshwater	(intermittent releases)	1,65 mg/l
Marine wate	r	0,2 mg/l
Freshwater	sediment	9,14 mg/kg
Marine sedi	nent	0,914 mg/kg
Micro-organisms in sewage treatment plants (STP)		4,2 mg/l
Soil		0,66 mg/kg
64-17-5	ethanol	
Freshwater		0,96 mg/l
Freshwater (intermittent releases)		2,75 mg/l
Marine water		0,79 mg/l
Freshwater sediment		3,6 mg/kg
Marine sediment		2,9 mg/kg
Secondary poisoning		380 mg/kg
Micro-organisms in sewage treatment plants (STP) 580		580 mg/l
Soil		0,63 mg/kg

## 8.2. Exposure controls

# Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

### Individual protection measures, such as personal protective equipment

# Eye/face protection

goggles

Face protection umbrella

### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

# Skin protection

Flame-retardant protective clothing. Wear anti-static footwear and clothing

### Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

### Thermal hazards

No data available

# **Environmental exposure controls**

Do not allow to enter into surface water or drains.

Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches.

Danger of explosion



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## **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state: Liquid
Colour: No data available
Odour: characteristic
Odour threshold: No data available

### Changes in the physical state

Melting point/freezing point:

No data available

Boiling point or initial boiling point and

<35 °C

boiling range:

Sublimation point:

Softening point:

No data available

No data available

Pour point:

No data available

No data available

No data available

No data available

-40 °C

**Flammability** 

Solid/liquid: not applicable
Gas: not applicable

#### **Explosive properties**

Vapours are heavier than air, spread along floors and form explosive mixtures with air.

Lower explosion limits:

Upper explosion limits:

not determined

not determined

Auto-ignition temperature:

No data available

Self-ignition temperature

Solid: not applicable Gas: not applicable Decomposition temperature: not determined pH-Value: No data available Viscosity / dynamic: No data available Viscosity / kinematic: No data available Flow time: No data available

## Solubility in other solvents

not determined

No data available Dissolution rate: not determined Partition coefficient n-octanol/water: No data available Dispersion stability: No data available Vapour pressure: No data available Vapour pressure: 0,76000 g/cm3 Density: No data available Relative density: No data available Bulk density: not determined Relative vapour density: No data available Particle characteristics:

# 9.2. Other information



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Information with regard to physical hazard classes

Sustaining combustion:

No data available

Oxidizing properties Not oxidising.

rtot oxidionig.

Other safety characteristics

Solvent separation test:

Solvent content:

No data available

Solid content:

No data available

No data available

Evaporation rate:

not determined

Further Information
No data available

## **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

Extremely flammable liquid and vapour. Explosive.

### 10.2. Chemical stability

May form explosive peroxides.

### 10.3. Possibility of hazardous reactions

Oxidising agent

### 10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air. Risk of explosion by shock, friction, fire or other sources of ignition. Remove all sources of ignition. Keep away from heat. Ignition hazard.

### 10.5. Incompatible materials

Protect against: Contact with air/oxygen.

## 10.6. Hazardous decomposition products

**SECTION 5: Firefighting measures** 

# **Further information**

May form explosive peroxides.

### **SECTION 11: Toxicological information**

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

# Toxicocinetics, metabolism and distribution

No data available

#### **Acute toxicity**

Harmful if swallowed.



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CAS No	No Chemical name					
	Exposure route	Dose		Species	Source	Method
60-29-7	diethyl ether					
	oral	LD50 mg/kg	1600	Rat	Toxicology and applied pharmacology, 197	OECD Guideline 401
	dermal	LD50 mg/kg	> 20000	Rabbit	Am. Ind. Hyg. Assoc. J., 1962, 23, 95-10	OECD Guideline 402
	inhalation (4 h) vapour	LC50 mg/l	32000	Rat	Am. Ind. Hyg. Assoc. J., 1962, 23, 95-10	Test animals are exposed to metered vapo
64-17-5	ethanol					
	oral	LD50 mg/kg	10470	Rat	Study report (1976)	OECD Guideline 401
	inhalation (4 h) vapour	LC50 mg/l	124,7	Rat	Study report (1980)	OECD Guideline 403

### Irritation and corrosivity

Based on available data, the classification criteria are not met.

### Sensitising effects

Based on available data, the classification criteria are not met.

# Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

## STOT-single exposure

May cause drowsiness or dizziness. (diethyl ether)

## STOT-repeated exposure

Based on available data, the classification criteria are not met.

### **Aspiration hazard**

Based on available data, the classification criteria are not met.

# Information on likely routes of exposure

No data available

# Specific effects in experiment on an animal

No data available

### Additional information on tests

No data available

# **Practical experience**

No data available

# 11.2. Information on other hazards

### **Endocrine disrupting properties**

No data available

### Other information

No data available

### **Further information**

No data available

## **SECTION 12: Ecological information**

# 12.1. Toxicity

The product is not: Ecotoxic.



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CAS No	Chemical name							
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method	
60-29-7	diethyl ether							
	Acute fish toxicity	LC50 mg/l	2560	96 h	Pimephales promelas	Acute toxicities of organic chemicals to	other: American Society for Testing and	
	Acute algae toxicity	ErC50 mg/l	> 100	72 h	Desmodesmus subspicatus	Study report (2010)	OECD Guideline 201	
	Crustacea toxicity	NOEC	100 mg/l	21 d	Daphnia magna	Study report (2010)	OECD Guideline 211	
	Acute bacteria toxicity	(EC50 mg/l)	26000	3 h	activated sludge of a predominantly domestic sewag	Study report (2010)	OECD Guideline 209	
64-17-5	ethanol							
	Acute fish toxicity	LC50 mg/l	15400	96 h	Lepomis macrochirus	Bulletin of Environmental Contamination	other: EPA-660/3-75-00 9, 1975	
	Acute algae toxicity	ErC50 22000 mg/l	ca.	96 h	Pseudokirchneriella subcapitata	Ecotoxicology and Environmental Safety 7	OECD Guideline 201	
	Acute crustacea toxicity	EC50 mg/l	> 10000	48 h	Daphnia magna	Water Research 23(4): 495-499 (1989)	other: DIN 38412 Teil 11	
	Algae toxicity	NOEC mg/l	5400	5 d	Skeletonema costatum	Environ Toxicol Chem 8(5):451-455. (1989	Study to determine the sensitivity of a	
	Crustacea toxicity	NOEC	2 mg/l	10 d	Ceriodaphnia dubia	Arch Environ Contam Toxicol 20(2):211-21	Follows the basic methodology for the th	

# 12.2. Persistence and degradability

The product has not been tested.

# 12.3. Bioaccumulative potential

The product has not been tested.

### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
60-29-7	diethyl ether	1,05
64-17-5	ethanol	-0,77

# **BCF**

CAS No	Chemical name	BCF	Species	Source
60-29-7	diethyl ether	2	not applicable	Other company data (
64-17-5	ethanol	1	Cyprinus carpio	Comparative Biochemi

## 12.4. Mobility in soil

The product has not been tested.

# 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. No data available



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### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

### 12.7. Other adverse effects

Do not allow to enter into surface water or drains.

#### **Further information**

Avoid release to the environment.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

### **Disposal recommendations**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Send to a physico-chemical treatment facility under observation of official regulations.

Do not empty into drains.

### Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

## **SECTION 14: Transport information**

### Land transport (ADR/RID)

141	UN number	or ID number:	UN 1993
17.1.		or in indiliner.	011 1333

14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (ethanol; ethyl alcohol, diethyl ether; ether)

3 14.3. Transport hazard class(es): 14.4. Packing group: ı 3 Hazard label: F1 Classification code: 274 **Special Provisions:** 0 Limited quantity: F3 Excepted quantity: Transport category: 33 Hazard No: D/E Tunnel restriction code:

### Inland waterways transport (ADN)

14.1. UN number or ID number: UN 1993

14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (ethanol; ethyl alcohol, diethyl ether; ether)

14.3. Transport hazard class(es):314.4. Packing group:IHazard label:3Classification code:F1Special Provisions:274Limited quantity:0Excepted quantity:E3

Marine transport (IMDG)

14.1. UN number or ID number: UN 1993

14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (ethanol; ethyl alcohol, diethyl ether; ether)

14.3. Transport hazard class(es):314.4. Packing group:IHazard label:3Special Provisions:274



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Limited quantity: 0
Excepted quantity: E3
EmS: F-E, S-E

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1993

**14.2. UN proper shipping name:** FLAMMABLE LIQUID, N.O.S. (ethanol; ethyl alcohol, diethyl ether; ether)

14.3. Transport hazard class(es):314.4. Packing group:IHazard label:3Special Provisions:A3Limited quantity Passenger:ForbiddenPassenger LQ:Forbidden

Excepted quantity: E3

IATA-packing instructions - Passenger: 351
IATA-max. quantity - Passenger: 1 L
IATA-packing instructions - Cargo: 361
IATA-max. quantity - Cargo: 30 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Warning: Combustible liquid.

## 14.7. Maritime transport in bulk according to IMO instruments

not applicable

### **SECTION 15: Regulatory information**

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

### **EU** regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40

Information according to 2012/18/EU

P5a FLAMMABLE LIQUIDS

(SEVESO III):

**National regulatory information** 

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile

work protection guideline' (94/33/EC).

Water hazard class (D): 1 - slightly hazardous to water

### 15.2. Chemical safety assessment

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

### **SECTION 16: Other information**

# Changes

This data sheet contains changes from the previous version in section(s): 1.

### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances



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ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

### Relevant H and EUH statements (number and full text)

H224	Extremely flammable liquid and vapour.
H225	Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
EUH019 May form explosive peroxides.

EUH066 Repeated exposure may cause skin dryness or cracking.

# **Further Information**

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.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)