

# SAFETY DATA SHEET

Version 8.9 Revision Date 03/04/2022 Print Date 04/01/2022

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

#### 1.1 Product identifiers

Product name : Benzyl Alcohol EMPROVE® EXPERT Ph

Eur, ChP, JP, NF

Product Number : 1.37120

Brand : Millipore

Index-No. : 603-057-00-5

CAS-No. : 100-51-6

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

Identified uses : Pharmaceutical production

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.

3050 SPRUCE ST ST. LOUIS MO 63103 UNITED STATES

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

1.4 Emergency telephone

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)

Acute toxicity, Oral (Category 4), H302 Acute toxicity, Inhalation (Category 4), H332 Eye irritation (Category 2A), H319

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

# 2.2 GHS Label elements, including precautionary statements

Pictogram

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Signal word Warning

Hazard statement(s)

H302 + H332 Harmful if swallowed or if inhaled.

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H319	Causes serious eye irritation.		
Precautionary statement(s)			
P261	Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.		
P264	Wash skin thoroughly after handling.		
P270	Do not eat, drink or smoke when using this product.		
P271	Use only outdoors or in a well-ventilated area.		
P280	Wear eye protection/ face protection.		
P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.		
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.		
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
P337 + P313 P501	If eye irritation persists: Get medical advice/ attention.  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

: C7H8O Formula Molecular weight : 108.14 g/mol CAS-No. : 100-51-6 EC-No. : 202-859-9 Index-No. : 603-057-00-5

Component	Classification	Concentration
Benzyl alcohol		
-	Acute Tox. 4; Eye Irrit. 2A; H302, H332, H319	<= 100 %

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

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

### **Description of first-aid measures**

# **General advice**

Show this material safety data sheet to the doctor in attendance.

## If inhaled

After inhalation: fresh air. If breathing stops: mouth-to-mouth breathing or artificial respiration. Oxygen if necessary. Immediately call in physician.

## In case of skin contact

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

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#### 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

Water Foam Carbon dioxide (CO2) Dry powder

# Unsuitable extinguishing media

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

# 5.2 Special hazards arising from the substance or mixture

Carbon oxides

Combustible.

Vapors are heavier than air and may spread along floors.

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or vapours possible in the event of fire.

# 5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

#### 5.4 Further information

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: Do not breathe vapors, aerosols. 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 with liquid-absorbent material (e.g. Chemizorb $\mathbb{R}$ ). Dispose of properly. Clean up affected area.

### 6.4 Reference to other sections

For disposal see section 13.

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# **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

## Advice on safe handling

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

# **Hygiene measures**

Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance.

For precautions see section 2.2.

# 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Protected from light. Tightly closed.

# Storage stability

Recommended storage temperature 2 - 8 °C

Recommended storage temperature see product label.

## Storage class

Storage class (TRGS 510): 10: Combustible liquids

### 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

Component	CAS-No.	Value	Control	Basis
			parameters	
Benzyl alcohol	100-51-6	TWA	10 ppm	USA. Workplace Environmental
				Exposure Levels (WEEL)

# 8.2 Exposure controls

# **Appropriate engineering controls**

Change contaminated clothing. Preventive skin protection recommended. Wash hands 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**

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

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Minimum layer thickness: 0.7 mm Break through time: 480 min

Material tested:Butoject® (KCL 898)

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).

Splash contact Material: Viton®

Minimum layer thickness: 0.7 mm Break through time: 120 min

Material tested: Vitoject® (KCL 890 / Aldrich Z677698, Size M)

# **Body Protection**

protective clothing

# **Respiratory protection**

required when vapours/aerosols 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: liquid

Color: colorless

b) Odor No data availablec) Odor Threshold No data available

d) pH No data available

e) Melting point/freezing point

No data available

f) Initial boiling point and boiling range

205 °C 401 °F at 1,013 hPa

g) Flash point 101 °C (214 °F) - DIN 51758

h) Evaporation rate No data availablei) Flammability (solid, No data available

gas)

j) Upper/lower Upper explosion limit: 13 %(V) flammability or Lower explosion limit: 1.3 %(V)

explosive limits

k) Vapor pressure No data availablel) Vapor density No data available

m) Density 1.05 g/cm3 at 20 °C (68 °F)

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Relative density No data available n) Water solubility No data available

o) Partition coefficient: log Pow: 1.05 at 20 °C (68 °F) - Bioaccumulation is not

n-octanol/water expected.

p) Autoignition No data available

temperature

q) Decomposition No data available

temperature

r) Viscosity No data availables) Explosive properties No data available

t) Oxidizing properties none

# 9.2 Other safety information

Dissociation constant 15.4 at 25 °C (77 °F)

# **SECTION 10: Stability and reactivity**

# 10.1 Reactivity

Forms explosive mixtures with air on intense heating.

A range from approx. 15 Kelvin below the flash point is to be rated as critical.

# 10.2 Chemical stability

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

# 10.3 Possibility of hazardous reactions

Risk of explosion with:

nonmetallic halides

Exothermic reaction with:

Oxidizing agents

polymerisation initiators

hydrogen bromide

Iron

Sulphuric acid

Acids

Isocyanates

# 10.4 Conditions to avoid

Strong heating.

### 10.5 Incompatible materials

various plastics

#### 10.6 Hazardous decomposition products

In the event of fire: see section 5



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

# 11.1 Information on toxicological effects

# **Acute toxicity**

LD50 Oral - Rat - male - 1,620 mg/kg

Remarks: (ECHA)

LC50 Inhalation - Rat - male and female - 4 h - > 4.178 mg/l - aerosol

(OECD Test Guideline 403)

Remarks: (Regulation (EC) No 1272/2008, Annex VI)

Dermal: No data available

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: irritating

(OECD Test Guideline 405)

# Respiratory or skin sensitization

Maximization Test Result: negative

(OECD Test Guideline 406)

# Germ cell mutagenicity

No data available

# Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

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

# 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

Central nervous system depression

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

Liver - Irregularities - Based on Human Evidence

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# **SECTION 12: Ecological information**

# 12.1 Toxicity

Toxicity to fish static test LC50 - Pimephales promelas (fathead minnow) - 460 mg/l

- 96 h (US-EPA)

Toxicity to daphnia

Immobilization EC50 - Daphnia magna (Water flea) - 230 mg/l - 48

and other aquatic

h

invertebrates

(OECD Test Guideline 202)

Toxicity to algae static test ErC50 - Pseudokirchneriella subcapitata (green algae) -

700 mg/l - 72 h

(OECD Test Guideline 201)

# 12.2 Persistence and degradability

Biodegradability aerobic - Exposure time 14 d

Result: 92 - 96 % - Readily biodegradable.

(OECD Test Guideline 301C) aerobic - Exposure time 21 d

Result: 95 - 97 % - Readily biodegradable.

(OECD Test Guideline 301A)

Biochemical Oxygen Demand (BOD) 1,550 mg/g Remarks: (Lit.)

Theoretical oxygen

2,515 mg/g

demand

Remarks: (IUCLID)

Ratio BOD/ThBOD 62 %

Remarks: (Lit.)

### 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 Endocrine disrupting properties

No data available

# 12.7 Other adverse effects

Additional ecological No

No data available

information



#### **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**

Not dangerous goods

#### **IATA**

UN number: 3334 Class: 9 Packing group: III Proper shipping name: Aviation regulated liquid, n.o.s.

# **SECTION 15: Regulatory information**

### **SARA 302 Components**

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

# **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.

# **Massachusetts Right To Know Components**

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

# **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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The branding on the header and/or footer of this document may temporarily not visually match the product purchased as we transition our branding. However, all of the

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information in the document regarding the product remains unchanged and matches the product ordered. For further information please contact mlsbranding@sial.com.

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