

## ENGLISH

### SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifiers

Product name: VP (NaOH) Reagent  
Product Number: 80280 - 87002

#### 1.2 Identified uses of the relevant substance or mixture and uses advised against

Identified uses relevant: Professional uses, Health Services, scientific research and development

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

Manufacturer/Supplier: Liofilchem®  
Address: Via Scozia, 64026 - Roseto degli Abruzzi (TE)  
Telephone number: 085/8930745  
Fax number: 085/8930330  
E-mail address: liofilchem@lioilchem.com

#### 1.4 Emergency telephone number

+39 02-66101029 (Centro Antiveleni Niguarda Cà Granda - Milano).

### SECTION 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

##### Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Flam. Liq. 2, Flammable liquids (Category 3); H225  
Skin Corr. 1A, Skin corrosion (Category 1A); H314  
Eye Dam. 1, Serious eye damage (Category 1); H318  
Aquatic Chronic 3, Chronic toxicity to the aquatic environment (Category 3); H412

#### 2.2 Label elements

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

##### *Pictogram*

##### *Hazard statement(s)*

H225	Highly flammable liquid and vapour.
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage.
H412	Harmful to aquatic life with long lasting effects

##### *Precautionary statement(s)*

P210	Keep away from heat, hot surfaces, sparks, flames and other sources of ignition. No smoking.
P243	Take precautionary measures against static discharge.
P273	Avoid release to the environment
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P330 + P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician

##### *Supplemental Hazard Statements* - none

#### 2.3 Other hazards - Refer to the individual component safety data sheets

### SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Refer to the individual component safety data sheets

### SECTION 4. FIRST AID MEASURES

Refer to the individual component safety data sheets

### SECTION 5. FIRE-FIGHTING MEASURES

(According to Regulation EC n° 1907/2006 and to  
Commission Regulation EU 2020/878)  
Revision: 1 / Revision Date: 09.12.2024

## SECTION 6. ACCIDENTAL RELEASE MEASURES

Refer to the individual component safety data sheets

Refer to the individual component safety data sheets

Refer to the individual component safety data sheets

Refer to the individual component safety data sheets

Refer to the individual component safety data sheets

Refer to the individual component safety data sheets

Refer to the individual component safety data sheets

### 14.1 UN number

ADR/RID: IMDG: IATA:  
Fare riferimento alla scheda di  
sicurezza dei componenti

ADR/RID: Fare riferimento alla scheda di sicurezza dei componenti  
IMDG: Fare riferimento alla scheda di sicurezza dei componenti  
IATA: Fare riferimento alla scheda di sicurezza dei componenti

ADR/RID: - IMDG: - IATA: -  
Fare riferimento alla scheda di  
sicurezza dei componenti

ADR/RID: - IMDG: - IATA: -  
Fare riferimento alla scheda di  
sicurezza dei componenti

ADR/RID: - IMDG: - IATA: -  
Fare riferimento alla scheda di  
sicurezza dei componenti

## no data available

## no data available

## 15. REGULATORY INFORMATION

This safety datasheet complies with:

- the requirements of European Parliament and of the Council Regulation (EC) No. 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) and Commission Regulation (EU) No. 453/2010 amending Commission Regulation (EC) No. 1907/2006.
- the requirements of Commission Regulation EU 2020/878

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

The product is classified, coded and labeled in accordance with EU Regulation on Hazardous Materials.

The product does not contain any restricted substances – Article XIV & Article XVIII REACH

### 15.2 Chemical Safety Assessment

This product has not been made a chemical safety assessment.

## 16. OTHER INFORMATION

### Kit composition (ref. 80280)

080402	NaOH 40% Reagent	Skin Corr. 1A, Skin corrosion (Category 1A); H314
080403	Alpha Naphtol Reagent	Flam. Liq. 2, Flammable liquids (Category 3); H225 Eye Dam. 1, Serious eye damage (Category 1); H318 Aquatic Chronic 3, Chronic toxicity to the aquatic environment (Category 3); H412

### Kit composition (ref. 87002)

87002A	NaOH 40% Reagent	Skin Corr. 1A, Skin corrosion (Category 1A); H314
87002B	Alpha Naphtol Reagent	Flam. Liq. 2, Flammable liquids (Category 3); H225 Eye Dam. 1, Serious eye damage (Category 1); H318 Aquatic Chronic 3, Chronic toxicity to the aquatic environment (Category 3); H412

### Text of H code(s) mentioned in Section 3

Refer to the individual component safety data sheets

### Abbreviations and acronyms

Refer to the individual component safety data sheets

### Training advice

The product must be used by qualified personnel. It is recommended to provide basic training with regard to safety and health at work to ensure proper handling of the product.

### Further information

The information in this document is based on the present state of our knowledge. The user must ensure the accuracy and completeness of such information in relation to the specific use intended.

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Previous date: 30.06.2022

Revision date: 09.12.2024

Revision Number: rev. 1

## ENGLISH

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifiers

Product name: NaOH 40% Reagent

Product Number: \$080402 – \$080430 – 87002A

#### 1.2 Identified uses of the relevant substance or mixture and uses advised against

Identified uses relevant: Professional uses, Health services, scientific research and development

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

Manufacturer/Supplier: Liofilchem®

Address: Via Scozia, 64026 - Roseto degli Abruzzi (TE)

Telephone number: 085/8930745

Fax number: 085/8930330

E-mail address: liofilchem@liofilchem.com

#### 1.4 Emergency telephone number

+39 02-66101029 (Centro Antiveleni Niguarda Cà Granda - Milano).

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Skin Corr. 1A, Skin corrosion (Category 1A); H314

#### 2.2 Label elements

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

##### Pictogram



##### Signal word

Danger

##### Hazard statement(s)

H314 Causes severe skin burns and eye damage.

##### Precautionary statement(s)

P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER or doctor/physician

##### Supplemental Hazard Statements none

**2.3 Other hazards** – This substance/mixture does not contain components considered to be both persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at concentrations of 0.1% or higher. The substance/mixture does not contain components considered to have endocrine disrupting properties in accordance with Article 57(f) of REACH or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### 3.2 Mixtures

##### Hazardous substances

CAS n°	EC n°	Index n°	Registration number REACH	Concentration	Classification according Regulation (EC) No 1272/2008
<b>Sodium hydroxide</b>					
1310-73-2	215-185-5	011-002-00-6	-	40.0 %	Skin Corr. 1A; H314

## Additional Information:

For the full text of H codes mentioned in this section, see section 16

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

**General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance.

**If inhaled:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact:** immediately take off all contaminated clothing. Wash thoroughly with soap and water. Consult a doctor.

**In case of eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult a physician.

**If swallowed:** Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

no data available

### 4.3 Indication of any immediate medical attention and special treatment needed

no data available

## 5. FIRE-FIGHTING MEASURES

### 5.1 Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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

Oxides of Carbon.

### 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

## 6. ACCIDENTAL RELEASE MEASURES

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

Use personal protective equipment. Avoid breathing vapours, mist or gas. Remove all sources of ignition. Ensure adequate ventilation.

### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided

### 6.3 Metodi e materiali per il contenimento e per la bonifica

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For information on safe handling, see Chapter 7.

For information on personal protection equipment see Chapter 8.

For disposal information see Chapter 13.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. Do not eat or drink in work areas, wash hands after use; and remove contaminated clothing and protective equipment before entering areas where you eat.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.  
Recommended storage temperature, see the product label.

### 7.3 Specific end uses

Apart from the uses described in section 1.2 are not covered other specific uses.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

**Components with workplace control parameters**

- Sodium hydroxide

Derived No Effect Level (DNEL)			
Application Area	Routes of exposure	Health effect	Value
Worker DNEL, longterm	inhalation	Long-term local effects	1 mg/m3
Consumer DNEL, longterm	inhalation	Long-term local effects	1 mg/m3

## 8.2 Exposure controls

### Exposure controls

Handle in accordance with good hygiene and safety practice. Wash hands before breaks and at the end of workday.

### Personal protective equipment

Eyes/Face Protection: It is advisable wear safety goggles

Skin protection: Handle with gloves

Body Protection: Use protective clothes in accordance with laboratory good practices.

Respiratory protection: It is advisable wear dust mask.

### Environmental exposure control

For information relating to environmental precautions, see chapter 6.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

#### Appearance

Form Liquid  
Color Yellow

#### Odour

No data available

#### Odour Threshold

No data available

#### pH

No data available

#### Melting point/ freezing point

No data available

#### Initial boiling point and boiling range

No data available

#### Flash point

No data available

#### Evaporation rate

No data available

#### Flammability (solid, gas)

No data available

#### Upper / lower flammability or explosive limits

No data available

#### Vapour pressure

No data available

#### Vapour density

No data available

#### Relative density

No data available

#### Water solubility

No data available

#### Partition coefficient: n-octanol/water

No data available

#### Autoignition temperature

No data available

#### Decomposition temperature

No data available

#### Viscosity

No data available

#### Explosive properties

No data available

#### Oxidizing properties

No data available

### 9.2 Other safety information

no data available

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

no data available

### 10.2 Chemical stability

Stable under recommended storage conditions

### 10.3 Possibility of hazardous reactions

no data available

### 10.4 Conditions to avoid

Heat, flames and sparks.

### 10.5 Incompatible materials

Alkali metals, Oxidizing agents, Peroxides.

### 10.6 Hazardous decomposition products

No decomposition when used for the intended uses.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

**Acute toxicity** No data available

**Skin corrosion/irritation** NaOH causes severe skin burns

**Serious eye damage/eye irritation** NaOH causes strong caustic effect

**Respiratory or skin sensitization** No data available

**Germ cell mutagenicity** : No data available

**Carcinogenicity** No data available

**Reproductive toxicity** No data available

**Specific target organ toxicity** - No data available

**Specific target organ toxicity - repeated exposure** No data available

**Aspiration hazard** No data available

### 11.2 Other informations

Endocrine disrupting properties: The substance/mixture does not contain components considered to have endocrine disrupting properties in accordance with Article 57(f) of REACH or Commission Delegated Regulation (EU) 2017/2100 or Regulation (EU) 2018/605 of the Commission at levels of 0.1% or higher

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

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

This mixture contains no substances evaluated PBT or vPvB

### 12.6 Endocrine disrupting properties

The mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 Other adverse effects

no data available

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

#### Product

Not be disposed of with household waste. Do not discharge into sewers.

The product must be specially treated adhering to official regulations administrative. Offer surplus and non-recyclable solutions to a licensed disposal company.

#### Contaminated packaging

Dispose of as unused product.

## 14. INFORMAZIONI SUL TRASPORTO

### 14.1 UN number

ADR/RID: UN 1824      IMDG: UN 1824      IATA: UN 1824

## 14.2 UN proper shipping name

ADR/RID: SODIUM HYDROXIDE SOLUTION

IMDG: SODIUM HYDROXIDE SOLUTION

IATA: SODIUM HYDROXIDE SOLUTION

## 14.3 Transport hazard class(es)

ADR/RID: 8      IMDG: 8      IATA: 8

## 14.4 Packaging group

ADR/RID: II      IMDG: II      IATA: II

## 14.5 Environmental hazards

ADR/RID: no      IMDG: no      IATA: no

## 14.6 Special precautions for user

no data available

## 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

no data available

## 15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of European Parliament and of the Council Regulation (EC) No. 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) and Commission Regulation (EU) No. 453/2010 amending Commission Regulation (EC) No. 1907/2006.

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

The product is classified, coded and labeled in accordance with EU Regulation on Hazardous Materials.

The product does not contain any restricted substances – Article XIV & Article XVIII REACH

### 15.2 Chemical Safety Assessment

This product has not been made a chemical safety assessment.

## 16. OTHER INFORMATION

### Text of H code(s)

#### mentioned in Section 3

Skin Corr. 1A, Skin corrosion (Category 1A);

H314 Causes severe skin burns and eye damage

### Abbreviations and acronyms

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

CLP: Regulation concerning the classification, labelling and packaging of substances and mixtures, Regulation (EC) No. 1272/2008.

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

IATA: International Air Transport Association

IMDG: International Maritime Code for Dangerous Goods

CL50: Middle lethal concentration of individuals in essay

DL50: The median lethal dose that causes death in 50% of individuals in essay

PBT: Persistent, bioaccumulative and toxic substance

REACH: Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), Regulation (EC) No. 1907/2006

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

vPvB: Very persistent and very bioaccumulative substance

### Training advice

The product must be used by qualified personnel. It is recommended to provide basic training with regard to safety and health at work to ensure proper handling of the product.

### Further information

This sheet replaces any previous edition.

The information in this document is based on the present state of our knowledge. The user must ensure the accuracy and completeness of such information in relation to the specific use intended.

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Previous date: 17.04.2023  
Revision date: 09.12.2024  
Revision Number: rev. 6

## ENGLISH

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifiers

Product name: Alpha Naphtol Reagent

Product Number: \$080403 - \$080431 - \$088035A - \$87002B - \$87007B

#### 1.2 Identified uses of the relevant substance or mixture and uses advised against

Identified uses relevant: Professional uses, Health services, scientific research and development

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

Manufacturer/Supplier: Liofilchem®

Address: Via Scozia, 64026 - Roseto degli Abruzzi (TE)

Telephone number: 085/8930745

Fax number: 085/8930330

E-mail address: liofilchem@liofilchem.com

#### 1.4 Emergency telephone number

+39 02-66101029 (Centro Antiveleni Niguarda Cà Granda - Milano).

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]**

Flam. Liq. 2, Flammable liquids (Category 3); H225

Eye Dam. 1, Serious eye damage (Category 1); H318

Aquatic Chronic 3, Chronic toxicity to the aquatic environment (Category 3); H412

#### 2.2 Label elements

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

##### Pictogram



##### Signal word

Danger

##### Hazard statement(s)

H225

Highly flammable liquid and vapour.

H318

Causes serious eye damage.

H412

Harmful to aquatic life with long lasting effects

##### Precautionary statement(s)

P210

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

P243

Take precautionary measures against static discharge.

P273

Avoid release to the environment

P280

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

P305 + P351 + P338

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

P310

Immediately call a POISON CENTER or doctor/physician

**Supplemental Hazard Statements** none

#### 2.3 Other hazards –

This substance/mixture does not contain components considered to be both persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at concentrations of 0.1% or higher.

The substance/mixture does not contain components considered to have endocrine disrupting properties in accordance with Article 57(f) of REACH or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### 3.2 Mixtures

##### Hazardous substances

CAS n°	EC n°	Index n°	Registration number REACH	Concentration	Classification according Regulation (EC) No 1272/2008
<b>Ethyllic alcohol</b>					
64-17-5	200-578-6	603-002-00-5	-	<= 100%	Flam. Liq. 2; H225

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14-Naphtol					
90-15-3	201-969-4	604-029-00-5	-	6.0%	Acute Tox. 4; Acute Tox.3; Skin Irrit. 2; Eye Dam.1; Skin Sens. 1A; STOT SE 2; STOT SE 3; Aquatic Acute 1; Aquatic Chronic 3; H302, H311, H315,H318, H317, H371, H335, H400, H411 M-Factor - Aquatic Acute: 1

**Additional Information:**

For the full text of H codes mentioned in this section, see section 16

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

**General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance.

**If inhaled:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact:** Wash with plenty of soap and water. Consult a physician.

**In case of eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult a physician.

**If swallowed:** Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

no data available

### 4.3 Indication of any immediate medical attention and special treatment needed

no data available

## 5. FIRE-FIGHTING MEASURES

### 5.1 Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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

Oxides of Carbon.

### 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

## 6. ACCIDENTAL RELEASE MEASURES

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

Use personal protective equipment. Avoid breathing vapours, mist or gas. Remove all sources of ignition. Ensure adequate ventilation.

### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided

### 6.3 Metodi e materiali per il contenimento e per la bonifica

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For information on safe handling, see Chapter 7.

For information on personal protection equipment see Chapter 8.

For disposal information see Chapter 13.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. Do not eat or drink in work areas, wash hands after use; and remove contaminated clothing and protective equipment before entering areas where you eat.

### 7.2 Conditions for safe storage, including any incompatibilities

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

Recommended storage temperature, see the product label.

### 7.3 Specific end uses

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Apart from the uses described in section 1.2 are not covered other specific uses.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### Components with workplace control parameters

It does not contain substances with occupational exposure limit values

### 8.2 Exposure controls

#### Exposure controls

Handle in accordance with good hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

Eyes/Face Protection: It is advisable wear safety goggles

Skin protection: Handle with gloves

Body Protection: Use protective clothes in accordance with laboratory good practices.

Respiratory protection: It is advisable wear dust mask.

#### Environmental exposure control

For information relating to environmental precautions, see chapter 6.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

#### Appearance

Form	Liquid
Color	Yellow

#### Odour

No data available

#### Odour Threshold

No data available

#### pH

No data available

#### Melting point/ freezing point

No data available

#### Initial boiling point and boiling range

> 35°C

#### Flash point

< 23°C

#### Evaporation rate

No data available

#### Flammability (solid, gas)

No data available

#### Upper / lower flammability or explosive limits

No data available

#### Vapour pressure

No data available

#### Vapour density

No data available

#### Relative density

No data available

#### Water solubility

soluble

#### Partition coefficient: n-octanol/water

No data available

#### Autoignition temperature

Product not selfigniting

#### Decomposition temperature

No data available

#### Viscosity

No data available

#### Explosive properties

No data available

#### Oxidizing properties

No data available

### 9.2 Other safety information

no data available

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

no data available

### 10.2 Chemical stability

Stable under recommended storage conditions

### 10.3 Possibility of hazardous reactions

no data available

### 10.4 Conditions to avoid

Heat, flames and sparks.

### 10.5 Incompatible materials

Alkali metals, Oxidizing agents, Peroxides.

### 10.6 Hazardous decomposition products

No decomposition when used for the intended uses.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

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## Acute toxicity

- **1-Naphtol: 90-15-3**  
LD50 Oral - Rat – 1000-2000 mg/kg  
LC50 Skin - Rabbit - > 880 mg/kg

**Skin corrosion/irritation** 1-Naphtol causes skin irritation

## Serious eye damage/eye irritation

- **1-Naphtol: 90-15-3**  
Eyes - Hen  
Result: Corrosive

## Respiratory or skin sensitization

- **1-Naphtol: 90-15-3**  
LLNA – Mouse - Positive

**Germ cell mutagenicity** : no data available

**Carcinogenicity** No data available

**Reproductive toxicity** No data available

**Specific target organ toxicity** No data available

**Specific target organ toxicity - repeated exposure** No data available

**Aspiration hazard** No data available

## 11.2 Other informations

Endocrine disrupting properties: The substance/mixture does not contain components considered to have endocrine disrupting properties in accordance with Article 57(f) of REACH or Commission Delegated Regulation (EU) 2017/2100 or Regulation (EU) 2018/605 of the Commission at levels of 0.1% or higher

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

1-Naphthol effects are: Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 4,1 - 4,7 mg/l - 96 h

### 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

This mixture contains no substances evaluated PBT or vPvB

### 12.6 Endocrine disrupting properties

The mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 Other adverse effects

no data available

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

#### Product

Not be disposed of with household waste. Do not discharge into sewers.

The product must be specially treated adhering to official regulations administrative. Offer surplus and non-recyclable solutions to a licensed disposal company.

#### Contaminated packaging

Dispose of as unused product.

## 14. INFORMAZIONI SUL TRASPORTO

### 14.1 UN number

ADR/RID: UN 1170                      IMDG: UN 1170                      IATA: UN 1170

## 14.2 UN proper shipping name

ADR/RID: ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

IMDG: ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

IATA: ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

## 14.3 Transport hazard class(es)

ADR/RID: 3                                      IMDG: 3                                      IATA: 3

## 14.4 Packaging group

ADR/RID: II                                      IMDG: II                                      IATA: II

## 14.5 Environmental hazards

ADR/RID: no                                      IMDG: no                                      IATA: no

## 14.6 Special precautions for user

no data available

## 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

no data available

## 15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of European Parliament and of the Council Regulation (EC) No. 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) and Commission Regulation (EU) No. 453/2010 amending Commission Regulation (EC) No. 1907/2006.

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

The product is classified, coded and labeled in accordance with EU Regulation on Hazardous Materials.

The product does not contain any restricted substances – Article XIV & Article XVIII REACH

### 15.2 Chemical Safety Assessment

This product has not been made a chemical safety assessment.

## 16. OTHER INFORMATION

### Text of H code(s) mentioned in Section 3

Flam. Liq. 2, Flammable liquids (Category 3); H225

Eye Dam. 1, Serious eye damage (Category 1); H318

Aquatic Chronic 3, Chronic toxicity to the aquatic environment (Category 3); H412

Acute Tox. 4; Acute toxicity (Category 4)

Acute Tox.3; Acute toxicity (Category 3)

skin Irrit. 2; Skin Irritation (Category 2)

Skin Sens. 1A; Skin Sensitization (Category 1A)

STOT SE 2; Specific target organ toxicity - single exposure (Category 2)

STOT SE 3; Specific target organ toxicity - single exposure (Category 3)

Aquatic Acute 1; Hazardous to the aquatic environment - acute

H225, Harmful if swallowed

H302, Harmful if swallowed

H311, Toxic in contact with skin

H315, Causes skin irritation

H317, May cause an allergic skin reaction

H318, Causes serious eye damage

H335, May cause respiratory irritation

H371, May cause damage to organs

H400, Very toxic to aquatic life

H411, Toxic to aquatic life with long lasting effects

H412, Harmful to aquatic life with long lasting effects

## Abbreviations and acronyms

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

CLP: Regulation concerning the classification, labelling and packaging of substances and mixtures, Regulation (EC) No. 1272/2008.

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

IATA: International Air Transport Association

IMDG: International Maritime Code for Dangerous Goods

CL50: Middle lethal concentration of individuals in essay

DL50: The median lethal dose that causes death in 50% of individuals in essay

PBT: Persistent, bioaccumulative and toxic substance

REACH: Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), Regulation (EC) No. 1907/2006

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

vPvB: Very persistent and very bioaccumulative substance

## Training advice

The product must be used by qualified personnel. It is recommended to provide basic training with regard to safety and health at work to ensure proper handling of the product.

## Further information

This sheet replaces any previous edition.

The information in this document is based on the present state of our knowledge. The user must ensure the accuracy and completeness of such information in relation to the specific use intended.

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Previous date: 17.04.2023

Revision date: 09.12.2024

Revision Number: rev. 7