#### SAFETY DATA SHEET (According to Regulation EC n° 1907/2006)

Revision: 3 / Revision Date: 01.06.2015

### ENGLISH

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

#### **1.1 Product identifiers**

Product name: V.P. TEST EP Product Number: 80281

#### **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<sup>®</sup> Address: Via Scozia, zona industriale, 64026 - Roseto degli Abruzzi (TE) Telephone number: 085/8930745 Fax number: 085/8930330 E-mail address: liofilchem@liofilchem.net **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 2); H225 Met. Corr. 1, Corrosive to metals (Category 1); H290 Acute Tox. 4, Acute toxicity,Oral (Category 4); H302 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

Signal word



# Hazard statement(s)

H225	Highly flammable liquid and vapour.		
H290	May be corrosive to metals.		
H302	Harmful if swallowed.		
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/sparks/open flames/hot surfaces. — 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 - none

#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Refer to component MSDS

#### 4. FIRST AID MEASURES

Refer to component MSDS

#### 5. FIRE-FIGHTING MEASURES

Refer to component MSDS

SAFETY DATA SHEET (According to Regulation EC n° 1907/2006)

Revision: 3 / Revision Date: 01.06.2015

#### 6. ACCIDENTAL RELEASE MEASURES

Refer to component MSDS

#### 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

Refer to component MSDS

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Refer to component MSDS

#### **10. STABILITY AND REACTIVITY**

Refer to component MSDS

#### **11. TOXICOLOGICAL INFORMATION**

Refer to component MSDS

#### **12. ECOLOGICAL INFORMATION**

Refer to component MSDS

#### **13. DISPOSAL CONSIDERATIONS**

Refer to component MSDS

#### **14. INFORMAZIONI SUL TRASPORTO**

<b>14.1 UN number</b> ADR/RID: - Refer to component MSDS	IMDG: -	IATA: -	
<b>14.2 UN proper shipping name</b> ADR/RID: Refer to component MSDS IMDG: Refer to component MSDS IATA: Refer to component MSDS			
<b>14.3 Transport hazard class(es</b> ADR/RID: - Refer to component MSDS	) IMDG: -	IATA: -	
<b>14.4 Packaging group</b> ADR/RID: - Refer to component MSDS	IMDG: -	IATA: -	
<b>14.5 Environmental hazards</b> ADR/RID: - Refer to component MSDS	IMDG: -	IATA: -	

#### 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

Revision: 3 / Revision Date: 01.06.2015

#### **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.

#### 15.2 Chemical Safety Assessment

This product has not been made a chemical safety assessment.

# 16. OTHER INFORMATION Kit Components: 080425 KOH 40% Reagent Met. Corr. 1, Corrosive to metals (Category 1) Acute Tox. 4, Acute toxicity,Oral (Category 4) Skin Corr. 1A, Skin corrosion (Category 1A) 080403 Alpha Naphtol Reagent Flam. Liq. 2, Flammable liquids (Category 2) Eye Dam. 1, Serious eye damage (Category 1) Aquatic Chronic 3 Chronic toxicity to the aquatic environment (Category 3)

#### 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.

Liofilchem® shall not be held liable for any damage resulting from handling or from contact with the above product. See <u>www.liofilchem.net</u>. for additional terms and conditions of sale.

Previous date: 16.12.2012 Revision date: 01.06.2015 Revision Number: rev. 3

#### SAFETY DATA SHEET (According to Regulation EC n° 1907/2006)

Revision: 2 / Revision Date: 01.06.2015

### ENGLISH

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

#### **1.1 Product identifiers**

Product name: KOH 40% Reagent Product Number: 080425-088035B

#### **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<sup>®</sup> Address: Via Scozia, zona industriale, 64026 - Roseto degli Abruzzi (TE) Telephone number: 085/8930745 Fax number: 085/8930330 E-mail address: liofilchem@liofilchem.net **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] Met. Corr. 1, Corrosive to metals (Category 1); H290 Acute Tox. 4, Acute toxicity,Oral (Category 4); H302 Skin Corr. 1A, Skin corrosion (Category 1A); H314 2.2 Label elements

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

Pictogram



Signal word

H290 H302 H314 <b>Precautionary statem</b>	May be corrosive to metals. Harmful if swallowed. Causes severe skin burns and eye damage <i>ent(s)</i>		
P280 P301 + P330 + P331	Wear protective gloves/protective clothing/eye protection/face protection. 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 - none

#### 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
Potassium Hy	Potassium Hydroxide				
1310-58-3	215-181-3	019-002-00-8	-	40.0%	Met. Corr. 1; Acute Tox. 4; Skin Corr. 1A; H290, H302, H314

#### Additional Information:

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

#### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

#### SAFETY DATA SHEET (According to Regulation EC n° 1907/2006)

Revision: 2 / Revision Date: 01.06.2015

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: Remove/Take off immediately all contaminated clothing. 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: Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. 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

no data available

#### 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.. 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. Do not eat, drink or smoking 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

Contains no substances with occupational exposure limit value.

#### 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 Liquid Form Color Colourless Odour **Odour Threshold** pН Melting point/ freezing point Initial boiling point and boiling range Flash point **Evaporation rate** Flammability (solid, gas) Upper / lower flammability or explosive limits Vapour pressure Vapour density **Relative density** Water solubility Partition coefficient: n-octanol/water Autoignition temperature Decomposition temperature Viscosity **Explosive properties Oxidizing properties** 

No data available 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** no data available

#### 10.5 Incompatible materials

Strong oxidizing agents, Strong acids, Organic materials.

#### 10.6 Hazardous decomposition products

No decomposition when used for the intended uses.

#### 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

Acute toxicity: 300 mg/kg < STAmix (Oral) < 2000 mg/kg

Skin corrosion/irritation: Potassium Hydroxide effects are: Skin - rabbit - Severe skin irritation -24 h

Serious eye damage/eye irritation: Potassium Hydroxide effects are: Eyes - rabbit - Corrosive to eyes

Respiratory or skin sensitization: no data available

Germ cell mutagenicity: no data available

**Carcinogenicity**: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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

Additional information: RTECS: no data available

#### 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 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 1814	IMDG: UN 1814	IATA: UN 1814	
<b>14.2 UN proper shipping name</b> ADR/RID: POTASSIUM HYDROXIDE SOLUTION IMDG: POTASSIUM HYDROXIDE SOLUTION IATA: POTASSIUM HYDROXIDE SOLUTION			
14.3 Transport hazard class(e ADR/RID: 8	s) IMDG: 8	IATA: 8	
14.4 Packaging group ADR/RID: II	IMDG: II	ΙΑΤΑ: ΙΙ	
<b>14.5 Environmental hazards</b> 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.

#### 15.2 Chemical Safety Assessment

This product has not been made a chemical safety assessment.

<sup>©</sup>Liofilchem® s.r.l. Via Scozia - Zona Industriale 64026, Roseto degli Abruzzi (TE) Italy - Tel +39 0858930745 - Fax +39 0858930330

SAFETY DATA SHEET (According to Regulation EC n° 1907/2006)

Revision: 2 / Revision Date: 01.06.2015

#### **16. OTHER INFORMATION**

#### 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.

Liofilchem® shall not be held liable for any damage resulting from handling or from contact with the above product. See <u>www.liofilchem.net</u>. for additional terms and conditions of sale.

Previous date: 25.05.2012 Revision date: 01.06.2015 Revision Number: rev. 2

#### SAFETY DATA SHEET (According to Regulation EC n° 1907/2006)

Revision: 5 / Revision Date: 01.06.2015

### ENGLISH

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

#### **1.1 Product identifiers**

Product name: Alpha Naphthol Reagent Product Number: 080403-088035A

#### **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<sup>®</sup> Address: Via Scozia, zona industriale, 64026 - Roseto degli Abruzzi (TE) Telephone number: 085/8930745 Fax number: 085/8930330 E-mail address: liofilchem@liofilchem.net **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 2); 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



Danger

#### Signal word

Hazard statemen	t(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/sparks/open flames/hot surfaces. — No smoking.			
P243	Take precautionary measures against static discharge.			

Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
Take precautionary measures against static discharge.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER or doctor/physician.

Supplemental Hazard Statements none

2.3 Other hazards - none

### 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
Ethyl alcol					
64-17-5	200-578-6	603-002-00-5	-	<= 100%	Flam. Liq. 2; H225
1-Naphthol	1-Naphthol				
90-15-3	201-969-4	604-029-00-5	-	6.0%	Acute Tox. 4; Acute Tox. 3; Skin Irrit. 2; Eye Dam. 1; STOT SE 3; Aquatic Chronic 2; H302, H311, H315, H318, H335, H411

#### Additional Information:

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

SAFETY DATA SHEET (According to Regulation EC n° 1907/2006)

Revision: 5 / Revision Date: 01.06.2015

#### 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

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

Contains no substances with occupational exposure limit value.

#### 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 Beige Odour **Odour Threshold** pН Melting point/ freezing point Initial boiling point and boiling range Flash point **Evaporation rate** Flammability (solid, gas) Upper / lower flammability or explosive limits Vapour pressure Vapour density **Relative density** Water solubility Partition coefficient: n-octanol/water Autoignition temperature **Decomposition temperature** Viscosity **Explosive properties Oxidizing properties** 

No data available No data available No data available No data available > 35°C < 23°C No data available soluble No data available Product not selfigniting No data available No data available No data available 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: 1-Naphthol effects are: LD50 Oral-Rat-1.870 mg/kg LD50 Dermal -Rabbit-880 mg/kg

Skin corrosion/irritation: 1-Naphthol effects are: Skin - rabbit - Severe skin irritation - 24 h

Serious eye damage/eye irritation: 1-Naphthol effects are: Eyes - rabbit - Severe eye irritation

Respiratory or skin sensitization: no data available

Germ cell mutagenicity: no data available

**Carcinogenicity**: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure:

1-Naphthol effects are: May cause respiratory irritation

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional information: RTECS: no data available

#### 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 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

 **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)

 IATA:
 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

14.3 Transport hazard class(es)				
ADR/RID: 3	IMDG: 3	IATA: 3		
<b>14.4 Packaging group</b> ADR/RID: II	IMDG: II	IATA: II		
<b>14.5 Environmental hazards</b> 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.

#### 15.2 Chemical Safety Assessment

Revision: 5 / Revision Date: 01.06.2015

This product has not been made a chemical safety assessment.

#### **16. OTHER INFORMATION**

#### Text of H code(s) and R-phrase(s) mentioned in Section 3

Acute Tox. 4 Acute toxicity (Category 4)

Acute Tox. 3 Acute toxicity (Category 3)

Skin Irrit. 2 Irritazione cutanea (Categoria 2)

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

Aquatic Chronic 2 Chronic toxicity to the aquatic environment (Category 2)

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H315 Causes skin irritation.

H335 May cause respiratory irritation.

H411 Toxic 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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