

ENGLISH

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

1.1 Product identifiers

Product name: Ziehl-Neelsen Color Kit
Product Number: 80276

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

Identified uses relevant: Professional uses, Industrial uses, scientific research and development
Uses advised against: Any use not specified in this section or in section 7.3

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: lioilchem@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 2); H225
Acute Tox. 4: Acute toxicity, Oral (Category 4); H302
Skin Corr. 1B: Skin corrosion (Category 1B); H314
Eye Dam. 1: Serious eye damage (Category 1); H318
Muta. 2: Germ cell mutagenicity (Category 2); H341
Carc. 1A: Carcinogenicity (Category 1A); H350
Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard (Category 3); H412

2.2 Label elements

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

Pictogram



Signal word

Danger

Hazard statement(s)

H225	Highly flammable liquid and vapour
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H341	Suspected of causing genetic defects
H350	May cause cancer
H412	Harmful to aquatic life with long lasting effects

Precautionary statement(s)

P201	Obtain special instructions before use
P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking
P233	Keep container tightly closed
P260	Do not breathe dust/fume/spray
P273	Avoid release to the environment
P280	Wear protective clothing
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P302 + P352	IF ON SKIN: Rinse skin with water and soap
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305 + P351 + P338	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
P337 + P313	If eye irritation persists: Get medical advice/attention
P362	Take off contaminated clothing
P405	Store locked up

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P501

Dispose of the product in accordance with local regulations

Supplemental Hazard Statements none

2.3 Other hazards -

This substance/mixture does not contain components considered to be 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

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Refer to the safety data sheets for the individual components

SECTION 4. FIRST AID MEASURES

Refer to the safety data sheets for the individual components

SECTION 5. FIRE-FIGHTING MEASURES

Refer to the safety data sheets for the individual components

SECTION 6. ACCIDENTAL RELEASE MEASURES

Refer to the safety data sheets for the individual components

SECTION 7. HANDLING AND STORAGE

Refer to the safety data sheets for the individual components

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Refer to the safety data sheets for the individual components

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Refer to the safety data sheets for the individual components

SECTION 10. STABILITY AND REACTIVITY

Refer to the safety data sheets for the individual components

SECTION 11. TOXICOLOGICAL INFORMATION

Refer to the safety data sheets for the individual components

SECTION 12. ECOLOGICAL INFORMATION

Refer to the safety data sheets for the individual components

SECTION 13. DISPOSAL CONSIDERATIONS

Refer to the safety data sheets for the individual components

SECTION 14. INFORMAZIONI SUL TRASPORTO

14.1 UN number

ADR/RID: UN 3316

IMDG: UN 3316

IATA: UN 3316

14.2 UN proper shipping name

ADR/RID: CHEMICAL KIT

IMDG: CHEMICAL KIT

IATA: CHEMICAL KIT

14.3 Transport hazard class(es)

ADR/RID: 9

IMDG: 9

IATA: 9

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

SECTION 15. REGULATORY INFORMATION

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

EU Regulations:

- Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), as amended.
- Commission Regulation (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP), as amended.

Authorisations and/or restrictions on use:

- Authorisations (REACH, Annex XIV): This product does not contain any substances subject to authorisation.
- Restrictions on use (REACH, Annex XVII): This product does not contain any substances subject to restriction.
- SVHC (Candidate List of Substances of Very High Concern for Authorisation): This product does not contain any substances included in the REACH Candidate List in a concentration above 0.1% w/w.

15.2. Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out for this substance/mixture by the supplier

SECTION 16. OTHER INFORMATION

Kit components

Code	Description	Hazard
80276A Bottle 1	Fuchsin basic solution	Flam. Liq. 3, Flammable liquids (Category 3); H226 Acute Tox. 4, Acute toxicity, Oral (Category 4); H302 Skin Corr. 1B, Skin corrosion (Category 1B); H314 Eye Dam. 1, Serious eye damage (Category 1); H318 Muta. 2, Germ cell mutagenicity (Category 2); H341 Carc. 1A, Carcinogenicity (Category 1A); H350 Aquatic Chronic 3, Hazardous to the aquatic environment — chronic hazard (Category 3); H412
80276B Bottle 2	Acid-Alcohol solution	Flam. Liq. 2, Flammable liquids (Category 2); H225 Skin Irrit. 2, Skin irritation (Category 2); H315 Eye Irrit. 2, Eye Irritation (Category 2); H319
80276C Bottle 3	Methylene blue solution	Not dangerous

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 www.liofilchem.com for additional terms and conditions of sale.

Document revisions are highlighted by sidebars.

Previous date 01.06.2015

Revision date: 16.09.2026

Revision Number: rev. 7

ENGLISH

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

1.1 Product identifiers

Product name: Fuchsin basic solution
Product Number: 80276A (Bottle 1)

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

Identified uses relevant: Professional uses, Industrial uses, scientific research and development
Uses advised against: Any use not specified in this section or in section 7.3

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).

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. 3: Flammable liquids (Category 3); H226
Acute Tox. 4: Acute toxicity, Oral (Category 4); H302
Skin Corr. 1B: Skin corrosion (Category 1B); H314
Eye Dam. 1: Serious eye damage (Category 1); H318
Muta. 2: Germ cell mutagenicity (Category 2); H341
Carc. 1A: Carcinogenicity (Category 1A); H350
Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard (Category 3); H412

2.2 Label elements

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

Pictogram



Signal word

Danger

Hazard statement(s)

H226	Flammable liquid and vapor
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H341	Suspected of causing genetic defects
H350	May cause cancer
H412	Harmful to aquatic life with long lasting effects

Precautionary statement(s)

P201	Obtain special instructions before use
P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking
P233	Keep container tightly closed
P260	Do not breathe dust/fume/spray
P273	Avoid release to the environment
P280	Wear protective clothing
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305 + P351 + P338	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
P363	Wash contaminated clothing before reuse
P405	Store locked up
P501	Dispose of the product in accordance with local regulations

Supplemental Hazard Statements none

2.3 Other hazards -

This substance/mixture does not contain components considered to be 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

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous substances

CAS Number	CE Number	Index Number	REACH Registration Number	Concentration	Classification according to Regulation (EC) No 1272/2008
Ethanol					
64-17-5	200-578-6	603-002-00-5	-	10.0 %	Flam. Liq 2; H225 Eye irrit 2; H319
Phenol					
108-95-2	203-632-7	604-001-00-2	-	5.0 %	Acute Tox. 3; H301 + H331 + H311 Skin Corr. 1B; H314 Eye Irrit. 1; H318 Muta. 2; H341 STOT RE 2; H373 Aquatic Chronic 2; H411
Fuchsin					
632-99-5	211-189-6	-	-	0.3%	Carc. 1A; H350

Additional Information:

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

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice: Consult a physician. Show this safety data sheet to the attending physician.

If inhaled: After inhalation: fresh air. Seek medical attention immediately. In case of respiratory arrest: perform artificial respiration immediately; administer oxygen if necessary.

In case of skin contact: Immediately remove contaminated and soaked clothing. After contact with the skin, wash immediately with plenty of soap and water. If skin reactions occur, 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.

If swallowed: Do not administer anything to unconscious persons. Immediately contact a POISON CONTROL CENTER or a doctor.

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

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

- Suitable extinguishing media: Water, foam, carbon dioxide, dry powder
- Unsuitable extinguishing media: None in particular for this mixture

5.2 Special hazards arising from the substance or mixture

Upon heating or in the event of fire, vapors may form explosive mixtures with air. Vapors can accumulate in low-lying areas and travel to ignition sources, posing a risk of flashback. Combustion or thermal decomposition produces carbon monoxide, carbon dioxide, and irritating fumes.

5.3 Advice for firefighters

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In case of fire, wear self-contained breathing apparatus. Remove the container from the danger zone and cool with water. Prevent fire-extinguishing water from contaminating surface water or groundwater.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use suitable personal protective equipment. Avoid dust formation. Avoid breathing vapors/mist/gas. Ensure adequate ventilation. Do not inhale dust, vapors, or aerosols.

6.2 Environmental precautions

Do not allow the product to enter drains

6.3 Methods and material for containment and cleaning up

Store in suitable, closed containers for disposal. In the event of a spill, soak up with inert absorbent material and dispose of as waste

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.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Avoid exposure - obtain special instructions before use.

Do not eat, drink or smoke 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.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

- DNEL

Phenol CAS No. : 108-95-2	DNEL workers (systemic) Longterm	Inhalation	8 mg/m ²
	DNEL workers (systemic) Longterm	Dermic	1,23 mg/kg

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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

Form Liquid
Color Fuchsia

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 - < 60°C
Evaporation rate	No data available
Flammability (solid, gas)	Not applicable
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

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

No dangerous reaction if the following technical storage instructions for chemicals are foreseen. See section 7.

10.2 Chemical stability

Chemically stable in the conditions of storage

10.3 Possibility of hazardous reactions

No dangerous reaction known if handled and stored in accordance with the provisions.

10.4 Conditions to avoid

Heat, flames, and sparks

10.5 Incompatible materials

Strong acids, alkalis or strong bases

10.6 Hazardous decomposition products

No decomposition when used for the intended uses.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:

Solution - ATE(mix)	Oral	500 - 2000 mg/kg (Category 4)
	Inhalation (dusts/mists)	> 1.5 mg/l
	Dermal	> 2000 mg/kg

Ethanol CAS No. : 64-17-5	LD50 Oral – Ratto	10470 mg/kg
	CL50 Inhalation – Rat	4 h -> 124,7 mg/l (dust)
Phenol CAS No. : 108-95-2	LD50 Oral – Ratto	111,22 mg/kg
	LD50 Dermal – Rabbit	733,33 mg/kg
	CL50 Inhalation – Rat	4 h - > 3 mg/l

Skin corrosion/irritation: The solution causes burns on the skin.

Serious eye damage/eye irritation: The solution causes serious eye damage; risk of blindness

Respiratory or skin sensitization: no data available

Germ cell mutagenicity:

Phenol CAS No. : 108-95-2	Evidence of genetic defects
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Carcinogenicity: no data available

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: The solution causes damage to organs through prolonged or repeated exposure (nervous system, kidneys, liver, skin)

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

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Ethanol CAS No. : 64-17-5	CL50	Pimephales promelas	15.300 mg/l 96 h
	CL50	Ceriodaphnia dubia	5.012 mg/l 48 h
	CE50r	Chlorella vulgaris	275 mg/l 72 h
	CI50	Activated sludge	> 1000 mg/l 3 d
	NOEC	Danio rerio	250 mg/l 120 h
	NOEC	Daphnia magna	9,6 mg/l 9 d
Phenol CAS No. : 108-95-2	CL50	Onchorhynchus clark	8,9 mg/l 96 h
	CE50	Ceriodaphnia dubia	3,1 mg/l 48 h
	CE50	Pseudokirchneriella subcapitata	61,1 mg/l 96 h
	CI50	microorganisms	21 mg/l 24 h
	NOEC	fishes	0,077 mg/l 60 d
	NOEC	Daphnia magna	0,16 mg/l 16 d

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

SECTION 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.

SECTION 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: III IMDG: III IATA: III

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

SECTION 15. REGULATORY INFORMATION

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

EU Regulations:

- Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), as amended.
- Commission Regulation (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP), as amended.

Authorisations and/or restrictions on use:

- Authorisations (REACH, Annex XIV): This product does not contain any substances subject to authorisation.
- Restrictions on use (REACH, Annex XVII): This product does not contain any substances subject to restriction.
- SVHC (Candidate List of Substances of Very High Concern for Authorisation): This product does not contain any substances included in the REACH Candidate List in a concentration above 0.1% w/w.

15.2. Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out for this substance/mixture by the supplier

SECTION 16. OTHER INFORMATION

List of H phrases in Section n°2

Acute Tox. 3:	Acute toxicity, Category 3
Eye Irrit 2	Eye irritation, Category 2
STOT RE 2:	Specific target organ toxicity — repeated exposure, Category 2
H301	Toxic if swallowed
H311	Toxic in contact with skin
H331	Toxic if inhaled
H373	May cause damage to organs through prolonged or repeated exposure
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

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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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Document revisions are highlighted by sidebars.

Previous date 01.06.2015

Revision date: 16.09.2026

Revision Number: rev. 7

ENGLISH

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

1.1 Product identifiers

Product name: Acid-Alcohol solution
Product Number: 80276B (Bottle 2)

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

Identified uses relevant: Professional uses, Industrial uses, scientific research and development
Uses advised against: Any use not specified in this section or in section 7.3

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).

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 2); H225

Skin Irrit.2: Skin irritation (Category 2); H315

Eye Irrit.2: Eye irritation (Category 2); H319

2.2 Label elements

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

Pictogram



Signal word

Danger

Hazard statement(s)

H225 Highly flammable liquid and vapour
H315 Causes skin irritation
H319 Causes serious eye irritation

Precautionary statement(s)

P210 Obtain special instructions before use
P233 Keep container tightly closed
P280 Wear protective clothing
P302 + P352 IF ON SKIN: Wash with plenty of water and soap
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water easy to do. Continue rinsing
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P332 + P313 If skin irritation occurs: Get medical advice
P337 + P313 If eye irritation persists: Get medical advice
P362 Take off contaminated clothing
P501 Dispose of the product in accordance with local regulations

Supplemental Hazard Statements none

2.3 Other hazards -

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

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous substances

CAS Number	CE Number	Index Number	REACH Registration Number	Concentration	Classification according to Regulation (EC) No 1272/2008
Ethanol					
64-17-5	200-578-6	603-002-00-5	-	10.0 %	Flam. Liq 2; H225 Eye irrit 2; H319
Chloridic acid 37%					
7647-01 -0	231-595-7	-	-	3.0 %	Met. Corr 1; H290 Skin Corr 1B, H314 STOT SE 3; H335

Additional Information:

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

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice: Consult a physician. Show this safety data sheet to the attending physician.

If inhaled: After inhalation: fresh air. Seek medical attention immediately. In case of respiratory arrest: perform artificial respiration immediately; administer oxygen if necessary.

In case of skin contact: Wash thoroughly with soap and water; immediately remove all contaminated clothing. Rinse skin/take a shower

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

If swallowed: Do not administer anything to unconscious persons. Immediately contact a POISON CONTROL CENTER or a doctor.

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

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

- Suitable extinguishing media: Water, foam, carbon dioxide, dry powder
- Unsuitable extinguishing media: None in particular for this mixture

5.2 Special hazards arising from the substance or mixture

The mixture is flammable. Beware of flashback. Vapors are heavier than air and spread along the ground. Hazardous gases and vapors may form in the event of fire. It forms explosive mixtures with air at room temperature.

5.3 Advice for firefighters

In case of fire, wear self-contained breathing apparatus. Remove the container from the danger zone and cool with water. Prevent fire-extinguishing water from contaminating surface water or groundwater.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use suitable personal protective equipment. Avoid dust formation. Avoid breathing vapors/mist/gas. Ensure adequate ventilation. Do not inhale dust, vapors, or aerosols.

6.2 Environmental precautions

Do not allow the product to enter drains

6.3 Methods and material for containment and cleaning up

Store in suitable, closed containers for disposal. In the event of a spill, soak up with inert absorbent material and dispose of as waste

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.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Avoid exposure - obtain special instructions before use.
Do not eat, drink or smoke 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.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

- DNEL

Chloridic acid 37% CAS No. : 7647-04-0	IOELV	10 ppm short term 5 ppm long term
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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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

Form Liquid
Color Colorless

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)

Not applicable

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 selfignitin

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

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

No dangerous reaction if the following technical storage instructions for chemicals are foreseen. See section 7.

10.2 Chemical stability

Chemically stable in the conditions of storage

10.3 Possibility of hazardous reactions

No dangerous reaction known if handled and stored in accordance with the provisions.

10.4 Conditions to avoid

Heat, flames, and sparks

10.5 Incompatible materials

Strong acids, alkalis or strong bases

10.6 Hazardous decomposition products

No decomposition when used for the intended uses.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity: The solution has no acute toxicity effects

Skin corrosion/irritation: The solution causes skin irritation

Serious eye damage/eye irritation: The solution causes eye irritation

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 - single exposure: 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

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Ethanol CAS No. : 64-17-5	CL50	Pimephales promelas	15.300 mg/l 96 h
	CL50	Ceriodaphnia dubia	5.012 mg/l 48 h
	CE50r	Chlorella vulgaris	275 mg/l 72 h
	CI50	Activated sludge	> 1000 mg/l 3 d
	NOEC	Danio rerio	250 mg/l 120 h
	NOEC	Daphnia magna	9,6 mg/l 9 d

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

SECTION 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.

SECTION 14. INFORMAZIONI SUL TRASPORTO

14.1 UN number

ADR/RID: UN 2924

IMDG: UN 2924

IATA: UN 2924

14.2 UN proper shipping name

ADR/RID: FLAMMABLE LIQUID, CORROSIVE, N.O.S. (HYDROCHLORIC ACID, ETHANOL)

IMDG: FLAMMABLE LIQUID, CORROSIVE, N.O.S. (HYDROCHLORIC ACID, ETHANOL)

IATA: FLAMMABLE LIQUID, CORROSIVE, N.O.S. (HYDROCHLORIC ACID, ETHANOL)

14.3 Transport hazard class(es)

ADR/RID: 3 (8)

IMDG: 3 (8)

IATA: 3 (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

SECTION 15. REGULATORY INFORMATION

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

EU Regulations:

- Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), as amended.
- Commission Regulation (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP), as amended.

Authorisations and/or restrictions on use:

- Authorisations (REACH, Annex XIV): This product does not contain any substances subject to authorisation.
- Restrictions on use (REACH, Annex XVII): This product does not contain any substances subject to restriction.
- SVHC (Candidate List of Substances of Very High Concern for Authorisation): This product does not contain any substances included in the REACH Candidate List in a concentration above 0.1% w/w.

15.2. Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out for this substance/mixture by the supplier

SECTION 16. OTHER INFORMATION

List of H phrases in Section n°2

Met. Corr 1	Substance or mixture corrosive to metals, Category 1
Skin Corr 1B	Skin corrosion, Category 1B
STOT SE 3	Specific target organ toxicity — single exposure, Category 3
H290	May be corrosive to metals
H314	Causes severe skin burns and eye damage
H335	May cause respiratory irritation

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 www.liofilchem.com for additional terms and conditions of sale.

Document revisions are highlighted by sidebars.

Previous date 01.06.2015

Revision date: 16.09.2026

Revision Number: rev. 5

ENGLISH

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

1.1 Product identifiers

Product name: Methylene blue solution
Product Number: 80276C (Flacone 3)

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
Uses advised against: Any use not specified in this section or in section 7.3

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 Antiveneni 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]

This product does not meet the criteria for classification in any hazard class in accordance to Regulation (EC) No. 1272/2008. concerning the classification, labelling and packaging of substances and mixtures.

2.2 Label elements

The product does not need to be labeled in accordance with EC directives or respective national laws.

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

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixtures:

Hazardous substances

Under applicable regulations, it is not necessary to declare any component

Additional Information:

For full text of H-statements, see SECTION 16

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice: Consult a physician. Show this safety data sheet to the attending physician. This kit component is not hazardous.

If inhaled: If inhaled, move the person to fresh air. If not breathing, administer artificial respiration. Consult a physician

In case of skin contact: Wash off with soap and plenty of water as precaution

In case of eye contact: Rinse thoroughly as a precaution

If swallowed: 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

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

The product is not flammable. In the event of a fire involving the product:

- Suitable extinguishing media: Water, foam, carbon dioxide, dry powder
- Unsuitable extinguishing media: None in particular for this mixture

5.2 Special hazards arising from the substance or mixture

No data available

5.3 Advice for firefighters

In case of fire, wear self-contained breathing apparatus. Remove the container from the danger zone and cool with water. Prevent fire-extinguishing water from contaminating surface water or groundwater.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Ensure adequate ventilation.

6.2 Environmental precautions

Do not allow the product to enter drains

6.3 Methods and material for containment and cleaning up

Store in suitable, closed containers for disposal. In the event of a spill, soak up with inert absorbent material and dispose of as waste

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.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Do not eat, drink, or smoke in work areas; wash hands after use; and remove contaminated clothing and protective equipment before entering eating areas

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.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with exposure limits

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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

Form Liquid
Color Blue

Odour

No data available

pH

No data available

Melting point/ freezing point

No data available

Initial boiling point and boiling range

No data available

Evaporation rate

No data available

Flammability (solid, gas)

No data available

Upper / lower flammability or explosive limits

No data available

Flash point

Not applicable

Auto-ignition temperature

Not applicable

Decomposition temperature

Not applicable

Vapour pressure

No data available

Vapour density

No data available

Relative density

No data available

Water solubility

Soluble

Partition coefficient: n-octanol/water

Not applicable

Viscosity

No data available

Explosive properties

No data available

Oxidizing properties

No data available

9.2 Other safety information

no data available

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

No hazardous reactions occur if the technical instructions for chemical storage are followed. See Section 7.

10.2 Chemical stability

The product is chemically stable under the recommended storage conditions

10.3 Possibility of hazardous reactions

No known hazardous reactions if handled and stored in accordance with the regulations

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Strong acids, alkalis, or strong bases

10.6 Hazardous decomposition products

It does not decompose when used for its intended purposes. In the event of fire, see section 5

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity: no data available

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 - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

11.2 Information on other hazards: The substance/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

SECTION 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

SECTION 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.

SECTION 14. TRANSPORT INFORMATION

14.1 UN number

ADR/RID: - IMDG: - IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

14.4 Packaging group

ADR/RID: - IMDG: - IATA: -

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

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

EU Regulations:

- Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), as amended.
- Commission Regulation (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP), as amended.

Authorisations and/or restrictions on use:

- Authorisations (REACH, Annex XIV): This product does not contain any substances subject to authorisation.
- Restrictions on use (REACH, Annex XVII): This product does not contain any substances subject to restriction.
- SVHC (Candidate List of Substances of Very High Concern for Authorisation): This product does not contain any substances included in the REACH Candidate List in a concentration above 0.1% w/w.

15.2 Chemical Safety Assessment

This product has not been made a chemical safety assessment.

16. OTHER INFORMATION

Abbreviations and acronyms

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure

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.

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

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