



Safety Data Sheet

CERFOBOL R90



Safety Data Sheet dated 26/9/2013, version 1
Printing date: 22/01/2016

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

1.1. Product identifier

Trade name: CERFOBOL R90

MSDS code: F007842

Chemical description: Aqueous emulsion of organic polymer.

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

Recommended use:

Industrial uses.

1.3. Details of the supplier of the safety data sheet

Supplier:

LAMBERTI S.p.A. - Via Piave 18 - 21041 Albizzate (VA) - Phone +39 0331 715 111 - Fax +39

0331 775 577 - e-mail: hse@lamberti.com

Competent person responsible for the safety data sheet:

hse@lamberti.com

1.4. Emergency telephone number

LAMBERTI S.p.A. - Phone +39 0331 715 111 - 24h

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)



Danger, Eye Dam. 1, Causes serious eye damage.



Warning, Repr. 2, Suspected of damaging fertility or the unborn child.

Directive criteria, 67/548/CE, 99/45/EC and following amendments thereof:

Properties / Symbols:

This product is not a hazardous article and need not be labelled according to EC-Directive 67/548, 1999/45 as amended.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Symbols:



Danger

Hazard statements:

H318 Causes serious eye damage.

H361 Suspected of damaging fertility or the unborn child.

Precautionary statements:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P281 Use personal protective equipment as required.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P310 Immediately call a POISON CENTER or doctor/physician.
P405 Store locked up.
P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

None

Contents

1-Ethylpyrrolidin-2-one

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.


3.2. Mixtures


Hazardous components within the meaning of EEC directive 67/548 and CLP regulation and related classification:

1% - 5% Alkylphenol polypropyleneglycolether.

CAS: N.D. EINECS:N.A. INDEX:N.D. REACH:N.A.

Xi; R36/38-53

 3.3/2 Eye Irrit. 2 H319


 3.2/2 Skin Irrit. 2 H315

4.1/C4 Aquatic Chronic 4 H413

1% - 5% 1-Ethylpyrrolidin-2-one

REACH No.: 01-2119472138-36-XXXX, CAS: 2687-91-4, EC: 220-250-6 INDEX:N.D.

Repr. Cat. 3, Xi; R63-41

 3.3/1 Eye Dam. 1 H318

 3.7/2 Repr. 2 H361d

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do not under any circumstances induce vomiting. Seek immediately medical advice.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

Not known.

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

Treatment:

Not known.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO2).

Extinguishing media which must not be used for safety reasons:

Not known.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

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

SECTION 6: Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures
 - Wear personal protection equipment.
 - Remove persons to safety.
 - See protective measures under point 7 and 8.
- 6.2. Environmental precautions
 - Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
 - Retain contaminated washing water and dispose it.
 - In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
- 6.3. Methods and material for containment and cleaning up
 - Suitable material for taking up: absorbing material, organic, sand
 - Wash with plenty of water.
- 6.4. Reference to other sections
 - See also section 8 and 13

SECTION 7: Handling and storage

- 7.1. Precautions for safe handling
 - Avoid contact with skin and eyes, inhalation of vapours and mists.
 - Do not eat or drink while working.
 - See also section 8 for recommended protective equipment.
- 7.2. Conditions for safe storage, including any incompatibilities
 - Keep away from food, drink and feed.
 - Instructions as regards storage premises:
 - Adequate ventilation in working area.
 - Packaging suggested:
 - Plastic drums.
- 7.3. Specific end use(s)
 - None in particular

SECTION 8: Exposure controls/personal protection

- 8.1. Control parameters
DNEL Exposure Limit Values
1-Ethylpyrrolidin-2-one
 - Worker Industry: 40 mg/m³ - Worker Professional: 40 mg/m³ - General population: 10 mg/l - Exposure: Long Term, systemic effects Human Inhalation
 - Worker Industry: 80 mg/m³ - Worker Professional: 80 mg/m³ - General population: 40 mg/m³ - Exposure: Short Term, systemic effects Human Inhalation
 - Worker Industry: 40 mg/m³ - Worker Professional: 40 mg/m³ - General population: 40 mg/m³ - Exposure: Long Term, local effects Human Inhalation
 - Worker Industry: 40 mg/m³ - Worker Professional: 40 mg/m³ - General population: 10 mg/m³ - Exposure: Long Term, local effects Human Inhalation
 - Worker Industry: 80 mg/m³ - Worker Professional: 80 mg/m³ - General population: 10 mg/m³ - Exposure: Short Term, local effects Human Inhalation
 - Worker Industry: 8 mg/kg - Worker Professional: 8 mg/kg - General population: 5 mg/kg - Exposure: Long Term, systemic effects Human Dermal
 - General population: 2.5 mg/kg - Exposure: Long Term, systemic effects Human Oral
- potassium hydroxide; caustic potash
 - Worker Industry: 1 mg/m³ - Worker Professional: 1 mg/m³ - General population: 1 mg/m³ - Exposure: Long Term, local effects Human Inhalation
- PNEC Exposure Limit Values
1-Ethylpyrrolidin-2-one
 - Fresh Water 0.25 mg/l
 - Marine water 0.025 mg/l
 - Intermittent release 1 mg/l
 - STP 10 mg/l
 - Freshwater sediments 1.91 mg/kg
 - Soil (agricultural) 0.235 mg/kg
- 8.2. Exposure controls
Eye protection:
 - Use close fitting safety goggles. (ref. EN 166, EN 140, EN175).
- Protection for skin:
 - Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton. (ref. EN 340).
- Protection for hands:
 - Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber. (ref. EN 374).
- Respiratory protection:
 - Use adequate protective respiratory equipment. (ref. EN 136, EN 140, EN 141, EN 143, EN 149, EN 405).

Thermal Hazards:
None
Environmental exposure controls:
None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance and colour: Liquid
Odour: Characteristic
Odour threshold: N.D.
pH: 8 - 10 (tal quale)
Melting point / freezing point: N.D.
Initial boiling point and boiling range: N.D.
Solid/gas flammability: N.A.
Upper/lower flammability or explosive limits: N.D.
Vapour density: N.D.
Flash point: N.D.
Evaporation rate: N.D.
Vapour pressure: N.D.
Relative density: 0.9 - 1.1
Solubility in water: Soluble
Solubility in oil: N.D.
Partition coefficient (n-octanol/water): N.D.
Auto-ignition temperature: N.D.
Decomposition temperature: N.D.
Viscosity: N.D.
Explosive properties: N.D.
Oxidizing properties: N.D.

9.2. Other information

Miscibility: N.D.
Fat Solubility: N.D.
Conductivity: N.D.
Substance Groups relevant properties N.D.

SECTION 10: Stability and reactivity

- 10.1. Reactivity
Stable under normal conditions
 - 10.2. Chemical stability
Stable under normal conditions
 - 10.3. Possibility of hazardous reactions
Stable under normal conditions
 - 10.4. Conditions to avoid
Stable under normal conditions.
 - 10.5. Incompatible materials
Not known.
 - 10.6. Hazardous decomposition products
Not known.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information of the mixture:

- a) acute toxicity:
LD50 Oral Rat > 2000 mg/kg Calculated data.
- b) skin corrosion/irritation:
Irritation Skin : repeated and prolonged contacts may cause slight irritation.
- c) serious eye damage/irritation:
Irritation Eye : Causes serious eye damage.
- g) reproductive toxicity:
Toxicity: Suspected of damaging fertility or the unborn child.

Toxicological information of the main substances found in the mixture:

- 1-Ethylpyrrolidin-2-one
 - a) acute toxicity:
Toxicity Oral Rat LD50 > 3200 mg/kg Literature data.
OECD 403 Inhalation Rat LC50 > 5.1 mg/l - Duration: 4h Literature data.
OECD 402 Skin Rat LD50 > 2000 mg/kg - Duration: 24h Literature data.
 - b) skin corrosion/irritation:
OECD 404 Skin Rabbit : Not irritant. - Duration: 4h Literature data.
 - c) serious eye damage/irritation:
OECD 405 Eye Rabbit : Highly irritating. Literature data.
 - d) respiratory or skin sensitisation:
OECD 429 Skin Mouse : Not sensitizing. Literature data.

- e) germ cell mutagenicity:
OECD 475 Mouse : Not mutagenic. Literature data.
 - i) STOT-repeated exposure:
OECD 408 Oral Rat NOAEL = 100 mg/kg - Duration: 90 days Literature data. - Notes:
STOT - Liver and kidneys.
- potassium hydroxide; caustic potash
- a) acute toxicity:
Toxicity Oral Rat LD50= 333 mg/kg Literature data.
 - b) skin corrosion/irritation:
Corrosion Skin : Corrosive. Literature data.
 - c) serious eye damage/irritation:
Corrosion Eye Rabbit : Corrosive. - Duration: 24h Literature data.
 - d) respiratory or skin sensitisation:
Skin Sensitization Guinea pig : Not sensitizing. - Duration: 24h Literature data.
 - e) germ cell mutagenicity:
Ames Test Salmonella Typhimurium : Not mutagenic. Literature data.

Other : N.D.

If not differently specified, the information required in Regulation 453/2010/EC listed below must be considered as N.D.:

- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitisation;
- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.

SECTION 12: Ecological information

12.1. Toxicity

Ecological information of the mixture:

- a) Aquatic acute toxicity:
Fish LC50 > 100 mg/l Calculated data.

Ecological information of the main substances found in the mixture:

1-Ethylpyrrolidin-2-one

- a) Aquatic acute toxicity:
OECD 203 Fish LC50 > 464 mg/l - Duration h: 96 Literature data.
OECD 202 Daphnia magna EC50 > 104 mg/l - Duration h: 48 Literature data.
OECD 201 Algae EC50 > 101 mg/l - Duration h: 72 Literature data.
- b) Aquatic chronic toxicity:
OECD 211 Daphnia LOEC = 25 mg/l - Duration h: 504 By analogy to product with similar composition.

potassium hydroxide; caustic potash

- a) Aquatic acute toxicity:
Fish EC50 = 189 mg/l Literature data.

12.2. Persistence and degradability

Ecological information of the mixture:

N.D.

Ecological information of the main substances found in the mixture:

1-Ethylpyrrolidin-2-one

Biodegradability: Rapidly degradable - Test: OECD 301 A - Duration: 28 days. - Date:
>90% - Notes:: Literature data.

potassium hydroxide; caustic potash

Biodegradability: Not applicable.

12.3. Bioaccumulative potential

Ecological information of the mixture:

N.D.

Ecological information of the main substances found in the mixture:

1-Ethylpyrrolidin-2-one

Bioaccumulation: Not bioaccumulative - Test: Evaluation. - Notes:: Literature data (estimated).

potassium hydroxide; caustic potash

Bioaccumulation: Not available.

12.4. Mobility in soil

Ecological information of the mixture:

N.D.

Ecological information of the main substances found in the mixture:

1-Ethylpyrrolidin-2-one

Mobility in soil: Very high - Test: Koc: 40.46 - Notes:: Calculated data.

potassium hydroxide; caustic potash

Mobility in soil: Data not available.

- 12.5. Results of PBT and vPvB assessment
vPvB Substances: None - PBT Substances: None
- 12.6. Other adverse effects
None
Use according to criteria of good industrial practice, avoiding product dispersion in the environment.
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SECTION 13: Disposal considerations

- 13.1. Waste treatment methods
If possible recover the product, otherwise dispose of in authorized landfill or incinerate in accordance with local regulation.
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SECTION 14: Transport information

- 14.1. UN number
N.A.
- 14.2. UN proper shipping name
Proper Shipping Name: N.A.
- 14.3. Transport hazard class(es)
Road (ADR): N.A.
Air (ICAO/IATA): N.A.
Sea (IMO/IMDG): N.A.
- 14.4. Packing group
ADR-Packing Group: N.A.
- 14.5. Environmental hazards
Environmental Pollutant: No
- 14.6. Special precautions for user
- 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
N.D.
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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Dir. 67/548/EEC (Classification, packaging and labelling of dangerous substances). Dir. 99/45/EEC (Classification, packaging and labelling of dangerous preparations). Dir. 98/24/EC (Risks related to chemical agents at work). Dir. 2000/39/EC (Occupational exposure limit values); Dir. 2006/8/CE. Regulation (CE) n. 1907/2006 (REACH).

For non-EU Countries, the Material Safety Data Sheet it is prepared following the main principles of Globally Harmonized System of Classification and Labelling of Chemicals (GHS) which are adopted worldwide.

Refer to other local regulations that may be relevant (i.e. : sanitary control, waste treatment etc.)

- 15.2. Chemical safety assessment
No
-

SECTION 16: Other information

N.A. = Not Applicable

N.D. = No Data available

Full text of phrases referred to in Section 3:

R36/38 Irritating to eyes and skin.

R41 Risk of serious damage to eyes.

R53 May cause long-term adverse effects in the aquatic environment.

R63 Possible risk of harm to the unborn child

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H413 May cause long lasting harmful effects to aquatic life.

H318 Causes serious eye damage.

H361d Suspected of damaging the unborn child.

This safety data sheet has been completely updated in compliance to Regulation 453/2010/EU.

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

TOXNET - Databases on toxicology, hazardous chemicals, environmental health, and toxic releases;

NIOSH - Registry of toxic effects of chemical substances (1983) - Occupational Health

Guidelines for Chemical Hazards (1995) - Pocket Guide to Chemical Hazards (on line)

European Chemical Bureau - ESIS: European chemical Substances Information System;

CESIO - Classification and labelling of anionic, nonionic surfactants (January 2000).

M.Sittig-Handbook of toxic and Hazardous Chemicals and Carcinogens- III Ed.
E.R. Plunkett - Handbook of Industrial Toxicology - III Ed. 1991.
Samson Chem. Pub.-Chemical Safety Sheet working safely with hazardous chemical.
SAX'S Dangerous Properties of Industrial Materials. VIII (1993)
ACGIH "2012 TLVs and BEIs".
ILV "1998/24/EC Directive and subsequent addition".

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS: Chemical Abstracts Service (division of the American Chemical Society).
CLP: Classification, Labeling, Packaging.
DNEL: Derived No Effect Level.
EINECS: European Inventory of Existing Commercial Chemical Substances.
GefStoffVO: Ordinance on Hazardous Substances, Germany.
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
IATA: International Air Transport Association.
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO: International Civil Aviation Organization.
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG: International Maritime Code for Dangerous Goods.
INCI: International Nomenclature of Cosmetic Ingredients.
KSt: Explosion coefficient.
LC50: Lethal concentration, for 50 percent of test population.
LD50: Lethal dose, for 50 percent of test population.
LTE: Long-term exposure.
PNEC: Predicted No Effect Concentration.
REACH: Registration Evaluation and Authorization of Chemicals.
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
STE: Short-term exposure.
STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
SVHC: Candidate List of Substances of Very High Concerns.
TLV: Threshold Limiting Value.
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
WGK: German Water Hazard Class.

