



Safety Data Sheet dated 22/10/2014, version 1 - Provisional

Printing date:22/10/2014



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

1.1. Product identifier

Trade name: ROLFOR SLF-180
MSDS code: YY1463
Chemical description: Alkoxylated alcohols.

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 Synthesis USA Inc. – 4001 North Hawthorne Street. - Chattanooga, TN 37406 U.S.A.
- Tel. n° (423) 697-0526 - Fax n° (423) 698-7925

Competent person responsible for the safety data sheet:

hse@lamberti.com


1.4. Emergency telephone number

CHEMTREC - Phone n. 800 424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Following GHS and EC regulation criteria 1272/2008 (CLP)

 Aquatic Chronic 2, Toxic to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Symbols:



Hazard statements:

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

P273 Avoid release to the environment.

P391 Collect spillage.

P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

None

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

Chemical description: Alkoxylated alcohols.
REACH No.: Not applicable
Index number: Not available
CAS: Trade secret.
EC: Not applicable



3.2. Mixtures
N.A.

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.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

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

No occupational exposure limit available

DNEL Exposure Limit Values

N.D.

PNEC Exposure Limit Values

N.D.

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 (25°C)

Odour: Slight.

Odour threshold: N.D.

pH (1% in water): 6.0 - 7.0

Melting point / freezing point: N.D.

Initial boiling point and boiling range: > 302 °F (> 150 °C).

Solid/gas flammability: N.D.

Upper/lower flammability or explosive limits: N.D.

Vapour density: N.D.

Flash point: > 212 °F (> 100 °C).

Evaporation rate: N.D.

Vapour pressure: N.D.

Relative density: N.D.

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



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|--------------------------------------|------|
| Miscibility: | N.D. |
| Fat Solubility: | N.D. |
| Conductivity: | N.D. |
| Substance Groups relevant properties | N.D. |
| Osha Flammability: | None |

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
Strong oxidizers
- 10.6. Hazardous decomposition products
Not known.

SECTION 11: Toxicological information

- 11.1. Information on toxicological effects
Toxicological information of the substance:
 - a) acute toxicity:
Toxicity Oral Rat LD50 > 2000 mg/kg. - By analogy to product with similar composition.
 - b) skin corrosion/irritation:
Irritation Skin : repeated and prolonged contacts may cause slight irritation.
 - c) serious eye damage/irritation:
Irritation Eye : repeated and prolonged contacts may cause slight irritation.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.Carcinogenic IARC: Not Carcinogenic

SECTION 12: Ecological information

- 12.1. Toxicity
Ecological information of the substance:
 - a) Aquatic acute toxicity:
EC50/LC50 > 1-10 mg/l - (By analogy to product with similar composition.)
- 12.2. Persistence and degradability
Ecological information of the substance:
Biodegradability: Not biodegradable. - Notes: By analogy to product with similar composition.
- 12.3. Bioaccumulative potential
Ecological information of the substance:
Bioaccumulation: Data not available.
- 12.4. Mobility in soil
Ecological information of the substance:



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.

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.

SECTION 14: Transport information

14.1. UN number

3082

14.2. UN proper shipping name

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.
(Alkoxyated alcohols).

14.3. Transport hazard class(es)

US DOT: UN 3082 Environmentally hazardous substance, liquid, n.o.s.
(Alkoxyated alcohols) 9, PG III.

Road (ADR): Class 9

Air (ICAO/IATA): Class 9

Sea (IMO/IMDG): Class 9

Marine pollutant: Yes

14.4. Packing group

ADR-Packing Group: III

14.5. Environmental hazards

Environmental Pollutant: Yes

14.6. Special precautions for user

N.A.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

N.D.

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

HMIS INFORMATION

HEALTH 1

FLAMMABILITY 1

REACTIVITY 1

PERSONAL PROT. C

HAZARD INDEX: 4 = SEVERE

3 = SERIOUS

2 = MODERATE

1 = SLIGHT

0 = MINIMAL

C* Safety glasses, gloves, chemical apron



| n | Name | CAS | TSCA | CERCLA | Sara302 | Sara313 |
|---|----------------------|---------------|------|--------|---------|---------|
| 0 | Alkoxyated alcohols. | trade secret. | Yes | No | No | No |

SARA Title III Section 311/312: Non-hazardous.

State Regulations:

Canadian Regulations: All the ingredients as such or as chemical group are registered in DSL.

Canadian WHMIS Classification: Non-hazardous.

California Proposition 65: The product may contain traces of propylene oxide, ethylene oxide and 1,4 Dioxane.

SECTION 16: Other information

N.A. = Not Applicable

N.D. = No Data available

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 "2013 TLVs and BEIs".

ILV "1998/24/EC Directive and subsequent addition".

The product must be stored, handled and used according to criteria of good industrial practice and to regulations in force. This leaflet is offered for your consideration and guidance only. This leaflet complements the Technical Data Sheet but does not replace it. The information herein contained is given to the best of our knowledge at the time of issue.

Due to the several ways in which the product may be used and the possible interaction with variables not depending on or unknown to the supplier, we also cannot accept any liability whatsoever for any loss or damage however arising from the handling and use of our products.

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|-------------|--|
| 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. |



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|---------|---|
| 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. |
| ASTM: | American Society of Testing and Materials. |
| CBI: | Confidential Business Information |
| CFR: | Code of Federal Regulations |
| DOT: | Department of Transportation |
| EPA: | Environmental Protection Agency |
| EU: | European Union |
| FIFRA: | Federal Insecticide, Fungicide and Rodenticide Act |
| HCS: | Hazard Communication Standard |
| IARC: | International Agency for Research on Cancer |
| IUPAC: | International Union of Pure and Applied Chemistry |
| mg/kg: | Milligram per kilogram |
| MSDS: | Material Safety Data Sheet |
| NAFTA: | North American Free Trade Agreement |
| OSHA: | Occupational Safety and Health Administration |
| OECD: | The Organization for Economic Cooperation and Development |
| QSARs: | Quantitative Structure-Activity Relationships |
| TSCA: | Toxic Substances Control Act |
| UN: | United Nations |
| WHMIS: | Workplace Hazardous Materials Information System |