

SAFETY DATA SHEET



Section 1. Identification

Product identifier : MESAMOLL
Material Number : 00402133
Chemical name : Mesamoll
Chemical family : Aromatic ester.
Identified uses : Plasticizer.
Supplier/Manufacturer : LANXESS Corporation
Rhein Chemie Additives
111 RIDC Park West Drive
Pittsburgh, PA 15275-1112
USA

For information: US/Canada (800) LANXESS
International +1 412 809 1000

In case of emergency : Chemtrec (800) 424-9300
International (703) 527-3887
Lanxess Emergency Phone (800) 410-3063.

Section 2. Hazards identification

HAZCOM Standard Status : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), the SDS contains valuable information critical to the safe handling and proper use of the product. The SDS should be retained and available for employees and other users of this product.

Physical state : Liquid.
Color : Yellowish.
Classification of the substance or mixture : Not classified.
Signal word : No signal word.
Hazard statements : No known significant effects or critical hazards.
Hazard Not Otherwise Classified (HNOC) : None known.
Precautionary statements

Prevention : Not applicable.
Response : Not applicable.
Storage : Not applicable.
Disposal : Not applicable.
Supplemental label elements : Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink.

Section 3. Composition/information on ingredients

Substance/mixture : UVCB
Chemical name : Mesamoll

| Ingredient name | % | CAS number |
|------------------------------|-----------|------------|
| Alkylsulfonate, Phenyl Ester | 99 - 99.8 | 70775-94-9 |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

Section 3. Composition/information on ingredients

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- Skin contact** : Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : No specific data.
- Ingestion** : No specific data.

Potential chronic health effects

No known significant effects or critical hazards.

- Notes to physician** : Treat symptomatically. No specific treatment.
- Protection of first-aiders** : No special measures required.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire. In case of fire, use water spray (fog), foam or dry chemical.
- Unsuitable extinguishing media** : None known.

Specific hazards arising from the chemical : In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
sulfur oxides

Section 5. Fire-fighting measures

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

- Personal precautions, protective equipment and emergency procedures** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Methods and materials for containment and cleaning up** : Stop leak if without risk. Move containers from spill area. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal. Prevent entry into sewers, water courses, basements or confined areas.

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Remove contaminated clothing and protective equipment before entering eating areas. Workers should wash hands and face before eating, drinking and smoking. Put on appropriate personal protection equipment. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.
- Conditions for safe storage** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Empty containers or liners may retain some product residues.

Section 8. Exposure controls/personal protection

Occupational exposure limits

No exposure limit value known.

- Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protection

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Respiratory protection** : The following respirator is recommended if airborne concentrations exceed the appropriate standard/guideline. NIOSH approved, air-purifying organic vapor respirator.
- Skin protection** : Wear suitable protective clothing and gloves. Suitable protective footwear.
- Eye/face protection** : safety glasses with side-shields
- Medical Surveillance** : Not available.

Section 9. Physical and chemical properties

| | |
|---|---|
| Physical state | : Liquid. [Clear viscous liquid.] |
| Color | : Yellowish. |
| Odor | : Odorless. |
| Odor threshold | : Not available. |
| pH | : Not available. |
| Boiling point | : 300 to 400 °C (1013 hPa) |
| Melting point | : Not available. |
| Flash point | : Closed cup: >93.3°C (>199.9°F) Open cup: >210°C (>410°F) [DIN 51376] |
| Evaporation rate | : Not available. |
| Explosion limits | : Not available. |
| Vapor pressure | : <0.0001 hPa (20°C) <0.0001 hPa (25°C) |
| Density | : 1.04 to 1.07 g/cm ³ |
| Specific gravity (Relative density) | : Not available. |
| Solubility | : 0.0022 g/l (water) |
| Partition coefficient: n-octanol/water | : 5.7 to 11.3 (measured (OECD 117)) |
| Vapor density | : Not available. |
| Viscosity | : Dynamic: 122.9 mPa·s |
| Auto-ignition temperature | : Not available. |
| Decomposition temperature | : >300°C |

Section 10. Stability and reactivity

| | |
|---|--|
| Reactivity | : No specific test data related to reactivity available for this product or its ingredients. |
| Chemical stability | : The product is stable. |
| Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur. |
| Conditions to avoid | : No specific data. |
| Incompatible materials | : No specific data. |
| Hazardous decomposition products | : Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

Section 11. Toxicological information

Information on the likely routes of exposure : Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

| | |
|---------------------|---|
| Eye contact | : No known significant effects or critical hazards. |
| Inhalation | : No known significant effects or critical hazards. |
| Skin contact | : No known significant effects or critical hazards. |
| Ingestion | : No known significant effects or critical hazards. |

Symptoms related to the physical, chemical and toxicological characteristics

| | |
|---------------------|---------------------|
| Eye contact | : No specific data. |
| Inhalation | : No specific data. |
| Skin contact | : No specific data. |
| Ingestion | : No specific data. |

Potential chronic health effects

Short term exposure

Section 11. Toxicological information

Potential immediate effects : Not available.

Long term exposure

Potential delayed effects : Not available.

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure | Test |
|-------------------------|-------------|------------|---------------|----------|------|
| MESAMOLL | LD50 Oral | Rat - Male | >15900 mg/kg | - | - |
| MESAMOLL | LD50 Dermal | Rat | >5000 mg/kg * | - | - |

Conclusion/Summary : * Extrapolation according to Regulation (EC) No. 440/2008

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation | Reversibility |
|-------------------------|------------------------------------|---------|-------|----------|-------------|---------------|
| MESAMOLL | Eyes - Redness of the conjunctivae | Rabbit | 0 | - | - | - |
| | Eyes - Edema of the conjunctivae | Rabbit | 0 | - | 7 days | - |
| | Eyes - Iris lesion | Rabbit | 0 | - | 7 days | - |
| | Eyes - Cornea opacity | Rabbit | 0 | - | 7 days | - |

Conclusion/Summary

Skin : Non-irritating

Eyes : Non-irritating

Sensitization

| Product/ingredient name | Route of exposure | Species | Result |
|-------------------------|-------------------|------------|-----------------|
| MESAMOLL | skin | Guinea pig | Not sensitizing |

Chronic toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|-------------------------|------------------------|---------|------------|--------------------------|
| MESAMOLL | Sub-chronic NOAEL Oral | Rat | 3000 mg/kg | 90 days; 7 days per week |

Mutagenicity

| Product/ingredient name | Test | Experiment | Result |
|-------------------------|------------------------------|---|----------|
| MESAMOLL | Ames test | Experiment: In vitro Subject: Bacteria Cell: Somatic Metabolic activation: +/- | Negative |
| | Chromosomal aberration assay | Experiment: In vitro Subject: Mammalian-Animal Cell: Somatic Metabolic activation: +/- | Negative |
| | HPRT test | Experiment: In vitro Subject: Mammalian-Animal | Negative |

Section 11. Toxicological information

Cell: Somatic
Metabolic activation: +/-

Carcinogenicity

| Product/ingredient name | CAS # | IARC | NTP | OSHA |
|------------------------------|------------|-----------------|-----------------|-----------------|
| Alkylsulfonate, Phenyl Ester | 70775-94-9 | Not classified. | Not classified. | Not classified. |

Reproductive toxicity

| Product/ingredient name | Effects | Species | Dose | Exposure |
|-------------------------|---------|------------------------------|--|--|
| | | Mammal - species unspecified | Oral: >1000 mg/kg mg/kg dwt Soil NOEC | 28 days OECD 222 Earthworm Reproduction Test (<i>Eisenia fetida/ andrei</i>) |

Conclusion/Summary : Not considered to be toxic to the reproductive system.

Section 12. Ecological information

Toxicity

| Product/ingredient name | Test | Result | Species | Exposure |
|-------------------------|---|---|---|---------------------|
| MESAMOLL | EU C.2 (Acute Toxicity for Daphnia) OECD 209 Activated Sludge, Respiration Inhibition Test | Acute EC0 >100 mg/l Fresh water Acute EC50 >10000 mg/l | Daphnia - Daphnia magna Bacteria - adapted and activated sludge micro-organism | 48 hours 3 hours |
| | EU C.3 | Acute IC0 >2 mg/l | Algae - Desmodesmus subspicatus | 72 hours |
| | EU C.1 | Acute LC0 >2 mg/l Fresh water | Fish - Danio rerio | 96 hours |

Conclusion/Summary : Not available.

Persistence and degradability

| Product/ingredient name | Test | Result | Dose | Inoculum |
|-------------------------|---|----------------|----------|----------|
| MESAMOLL | EU C.4-D (Determination of the "Ready" Biodegradability - Manometric Respirometry Test) | 61 % - 47 days | 100 mg/l | - |

Conclusion/Summary : Not available.

Bioaccumulative potential

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|-------------------------|--------------------|-----------|-----------|
| MESAMOLL | 5.7 to 11.3 | 56 to 212 | low |

Mobility in soil

Soil/water partition coefficient (K_{oc}) : 4.7 to 9.3

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Waste disposal should be in accordance with existing federal state, provincial and or local environmental controls laws.

RCRA classification : : If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

Section 14. Transport information

| Regulatory information | UN number | Proper shipping name | Classes | PG* | Label | Additional information |
|------------------------|-----------|----------------------|---------|-----|-------|------------------------|
| DOT Classification | - | - | - | - | | Not regulated. |
| IMDG Class | - | - | - | - | | Not regulated. |
| IATA-DGR Class | - | - | - | - | | Not regulated. |

PG* : Packing group

RQ : 0 lbs

Section 15. Regulatory information

SARA 311/312 : None

SARA Title III Section 302 Extremely Hazardous Substances : None

SARA Title III Section 313 Toxic Chemicals : None

US EPA CERCLA Hazardous Substances (40 CFR 302.4) : None

State regulations

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections on the SDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

| <u>Ingredient name</u> | <u>CAS number</u> | <u>State Code</u> | <u>Concentration (%)</u> |
|------------------------------|-------------------|-------------------|--------------------------|
| Alkylsulfonate, Phenyl Ester | 70775-94-9 | | 95 - 100% |

Massachusetts Substances: MA - S

Massachusetts Extraordinary Hazardous Substances: MA - Extra HS

New Jersey Hazardous Substances: NJ - HS

Pennsylvania RTK Hazardous Substances: PA - RTK HS

Pennsylvania Special Hazardous Substances: PA - Special HS

California Prop. 65

To the best of our knowledge, this product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm.

U.S. Toxic Substances Control Act : Listed on the TSCA Inventory.

Section 16. Other information

Hazardous Material Information System

| | |
|------------------|---|
| Health | 0 |
| Flammability | 1 |
| Physical hazards | 0 |
| | |

0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme
*=Chronic

The customer is responsible for determining the PPE code for this material. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

National Fire Protection Association (U.S.A.)



0= Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

LANXESS' method of hazard communication is comprised of Product Labels and Safety Data Sheets. HMIS and NFPA ratings are provided by LANXESS as a customer service.

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Product Safety and Regulatory Affairs

▣ Indicates information that has changed from previously issued version.

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