1. Identification of the substance/mixture and of the company/undertaking
   - **Product Identifier** – Formvar 95/15 Resin (polyvinyl formal)
   - **Article Number** - 10835

Relevant identified uses of the substances or mixture and uses advised against.
No further relevant information available.

Application of the substance/preparation: No further relevant information available.

Details of the supplier of the safety data sheet

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83 Holly Court
Williston, VT 05495
sales@laddresearch.com
Tel: +1-(802) 658-4961
Emergency Tel: +1-703-741-5500 (Chembtree)

2. Hazards identification

   - **Classification of the substance or mixture**
   - **Classification according to Regulation (EC) No 1272/2008**

   ![GHS08 health hazard]
   
   GHS08 health hazard
   
   STOT SE 2   H371   May cause damage to organs.

   ![GHS07]
   
   GHS07
   Acute Tox. 4   H302   Harmful if swallowed.
   Acute Tox. 4   H312   Harmful in contact with skin.
   Acute Tox. 4   H332   Harmful if inhaled.
   Skin Irrit. 2   H315   Causes skin irritation.

Label elements

Labelling according to Regulation (EC) No 1272/2008:
The substance is classified and labelled according to the CLP regulation.

Hazard pictograms

![GHS07]  ![GHS08]
Signal word: Warning

Hazard statements
H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled
H315 Causes skin irritation
H371 May cause damage to organs

Precautionary statements
P260 Do not breathe dust/fume/gas/mist/vapors/spray
P280 Wear protective gloves/protective clothing
P301+P312 IF SWALLOWED: Call a poison center/doctor if you feel unwell.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing
P405 Store locked up
P501 Dispose of contents/container in accordance with local/regional/national/international regulations

Other hazards

Results of PBT and vPvB assessment
PBT: Not applicable
vPvB: Not applicable

3. Composition/information on ingredients

Chemical characterization: Substances

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>63450-15-7</td>
<td>Formvar 95/15 Resin</td>
</tr>
</tbody>
</table>

Identification number: 10835

4. First aid measures

Description of first aid measures

General information:
Symptoms of poisoning may occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation:
Supply fresh air or oxygen; call for doctor.
In case of unconsciousness place patient stably in side position for transportation.
No adverse effects are anticipated from inhalation.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact:
Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing:
Call for medical help immediately. Induce vomiting.
Drink plenty of water and provide fresh air. Call for a doctor immediately.

Information for doctor:
Most important symptoms and effects, both acute and delayed
No further relevant information available.
Indication of any immediate medical attention and special treatment needed
No further relevant information available.

5. **Firefighting measures**
   Extinguishing media
   Suitable extinguishing agents:
   CO2, powder, alcohol resistant foam or water spray.
   Special hazards arising from the substance or mixture. No further relevant information available.
   Advice for firefighters
   Protective equipment: Positive pressure self-contained breathing apparatus.

6. **Accidental release measures**
   Personal precautions, protective equipment and emergency procedures
   Not required.
   Environmental precautions:
   Do not allow product to reach sewage system or any water course.
   Methods and material for containment and cleaning up:
   Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
   Dispose contaminated material as waste according to item 13.
   Ensure adequate ventilation.
   Reference to other sections
   See Section 7 for information on safe handling.
   See Section 8 for information on personal protection equipment.
   See Section 13 for disposal information.

7. **Handling and storage**
   Handling:
   Precautions for safe handling
   Ensure good ventilation/exhaustion at the workplace.
   Open and handle receptacle with care.
   Prevent formation of aerosols.
   Information about fire and explosion protection: No special measures required.
   Conditions for safe storage, including any incompatibilities
   Storage: Store in cool, well ventilated area. Keep away from direct sunlight.
   Requirements to be met by storerooms and receptacles: No special requirements.
   Information about storage in one common storage facility: Not required.
   Further information about storage conditions: Keep container tightly sealed.
   Special end use(s): No further relevant information available.
8. Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

Control parameters

Ingredients with limit values that require monitoring at the workplace: Not required.

Additional information: The lists valid during the making were used as basis.

Exposure controls:

Personal protective equipment:

General protective and hygienic measures:
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Avoid contact with the eyes and skin.

Respiratory protection:
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands: Protective gloves
The glove material has to be impermeable and resistant to the product, the substance, the preparation.
Due to missing tests no recommendation to the glove material can be given for the product, the preparation, the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Goggles recommended during refilling.

Body Protection: Protective clothing with elasticated cuffs and closed neck.

9. Physical and chemical properties

Information on basic physical and chemical properties

General information

Appearance:
Form: Solid
Color: White to light yellow
Odor: Slightly pungent
Odor threshold: Not determined
pH value: Not applicable

Change in condition
Melting point/Melting range: Undetermined
Boiling point/Boiling range: Undetermined
Flash point: Not applicable
**Flammability:** Product is not flammable

**Ignition temperature:** Not determined

**Decomposition temperature:** Not determined

**Self-igniting:** Not determined

**Danger of explosion:** Product does not present an explosion hazard

**Explosion limits:**
- **Lower:** Not determined
- **Upper:** Not determined

**Vapor pressure at 20°C:** Not applicable

**Density at 20°C:** 1.23 g/cm$^3$

**Relative density:** Not determined

**Vapor density:** Not applicable

**Evaporation rate:** Not applicable

**Solubility in/**
- **Miscibility with water:** Not determined

**Partition coefficient:** Not determined

**Viscosity:**
- **Dynamic:** Not applicable
- **Kinematic:** Not applicable

**Other information:** No further relevant information available

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10. **Stability and reactivity**

**Reactivity:**

**Chemical stability:** Stable under normal conditions.

**Thermal decomposition / conditions to be avoided:**
Heat, sources of ignition, flames.

**Possibility of hazardous reactions:** No dangerous reactions known.

**Conditions to avoid:** No further relevant information available.

**Incompatible materials:** Oxidizing agents

**Hazardous decomposition products:** No dangerous decomposition products known.

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11. **Toxicological information**

**Information on toxicological effects**

**Acute toxicity:** Harmful if swallowed, if in contact with skin or if inhaled

**Primary irritant effect:**

**Skin corrosion/irritation:** Causes skin irritation.

**Serious eye damage/irritation:** Irritating to eye.

**Sensitization:** Based on available data, the classification criteria are not met.

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):** Based on available data, the classification criteria are not met.

**Germ cell mutagenicity:** Based on available data, the classification criteria are not met.

**Carcinogenicity:** Based on available data, the classification criteria are not met.

**Reproductive Toxicity:** Based on available data, the classification criteria are not met.

**STOT – single exposure:** May cause damage to organs.
STOT – repeated exposure: Based on available data, the classification criteria are not met.
Aspiration exposure: Based on available data, the classification criteria are not met.

12. **Ecological information**

Toxicity
Aquatic toxicity: No further relevant information available
Persistence and degradability: No further relevant information available
Bioaccumulative potential: No further relevant information available
Mobility in soil: No further relevant information available
Additional ecological information:
General notes:
Water hazard class 1 (German regulation)(Self-assessment): slightly hazardous for water.
Do not allow product to reach ground water, water course or sewage system.

**Results of PBT and vPvB assessment**
PBT: Not applicable
vPvB: Not applicable.

**Other adverse effects:** No further relevant information available.

13. **Disposal considerations**

Waste treatment methods
Recommendation
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Recommendation: Burn in an adequate incinerator or bury in an approved landfill in compliance with applicable regulations.

14. **Transport information**

UN-Number
ADR, IMDG, IATA: Void
UN proper shipping name: Not regulated
Transport hazard class(es)
ADR, IMDG, IATA
Class: Void

Packing group
ADR, IMDG, IATA: Void

Environmental hazards: Not applicable
Special precautions for user: Not applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable
Transport/Additional information:
ADR
Limited quantities (LQ) Not applicable

UN “Model Regulation”: Not applicable

15. **Regulatory information**

**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16. **Other Information**

This information is based on our present knowledge and should assist the user with the safe handling of this material when properly applied. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Contact**
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**Abbreviations and acronyms:**
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the international Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
PBT: Persistent, bioaccumulative and toxic.
vPvB: Very persistent and very bioaccumulative