

Section 1 Identification

Product identifiers

Repro Thixo – Thixotropic Additive

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

Third component thickening additive for with polyurethane resin system.

For industrial/professional use only.

Details of the supplier of the safety data sheet

Freeman Manufacturing & Supply Company

1101 Moore Road, Avon, OH 44011 USA

Telephone: +1 (440) 934-1902

E-mail: contactus@freemansupply.com

24-hour emergency telephone number

CHEMTREC (800) 424-9300

Section 2 Hazard Identification

GHS Classification in Accordance with 29 CFR 1910.1200 (OSHA HCS)

Flammable liquids - Category 4

Eye Irritation – Category 2A

Reproductive toxicity - Category 1B

Specific Target Organ Toxicity – Single Exposure (Respiratory system) - Category 3

Label Elements



Danger

Hazard Statements

H227 Combustible liquid.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H360 May damage 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.

P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

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

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER/doctor if you feel unwell.

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.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal plant.

Section 3 Composition/Information on Ingredients

Chemical Name	CAS Number	Concentration (%)
1-Methyl-2-pyrrolidone	872-50-4	30 - 60
Lithium chloride [LiCl]	7447-41-8	1 - 5
Pyrrolidinone, dimethyl-	60544-40-3	0.1 - 1.0

Other ingredients are not listed because they are either not hazardous or are below cut-off / concentration thresholds.

Section 4 First Aid Measures

General advice

Move out of dangerous area. Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.

Description of first aid measures

Eye Contact: Rinse thoroughly with water for at least 15 minutes, holding the eyelids open to be sure the material is washed out. Get medical attention if irritation develops or persists.

Skin Contact: Remove contaminated clothing. Wash contact area thoroughly with soap and water. Get medical attention if irritation develops or persists. Launder clothing before re-use.
Discard items that cannot be decontaminated.

Inhalation: Remove person to fresh air. Give artificial respiration if needed. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.

Ingestion: Induce vomiting immediately and call a physician. Keep respiratory tract clear.
Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician. Take victim immediately to hospital.

Section 5 Fire-Fighting Measures

Extinguishing Media

Use water fog, foam, carbon dioxide (CO₂) or dry chemical. Do not direct solid water stream into hot product, since it may cause violent steam generation or eruption.

Specific Hazards

Cool closed containers exposed to fire with water spray. Will not explode on mechanical impact.

Do not allow run-off from firefighting to enter drains or water courses.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments.

Products of Hazardous Combustion

Carbon oxides, silicone compounds, chlorinated compounds

Special Protective Equipment & Precautions for Fire-Fighters

Wear positive pressure, self-contained breathing apparatus and full-body protective clothing.
Cool fire-exposed containers with water.

Section 6 Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Remove ignition sources. Clear non-emergency personnel from the area. Wear a respirator and protective equipment to prevent eye and skin contact. Ventilate area. Caution – spill area may be slippery.

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform respective authorities.

Section 6 Accidental Release Measures
Methods and Materials for Containment and Cleanup

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.

Section 7 Handling and Storage
Safe Handling

Avoid breathing vapors, aerosols and mists. Use with adequate ventilation. Avoid contact with the eyes, skin and clothing. Wash thoroughly after handling. Do not eat, drink or smoke in the work area. Keep container closed when not in use. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations.

Safe Storage

No smoking. Keep in a well-ventilated place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

Materials to avoid

Keep away from strong acids, strong bases, and oxidizing agents.

Section 8 Exposure Controls/Personal Protection
Occupational Exposure Limits

Chemical Name	US WEEL
1-Methyl-2-pyrrolidone (CAS 872-50-4)	10 ppm TWA

Appropriate Engineering Controls

Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.

Personal Protective Equipment (PPE)

Respiratory Protection: In the case of vapour formation use a NIOSH-approved respirator with organic vapor cartridges. Respirator selection and use should be based on contaminant type, form and concentration. For higher exposures or in an emergency, use a supplied-air respirator.

Skin Protection: Wear impervious gloves, such as butyl rubber or nitrile rubber.

Eye Protection: Wear chemical safety glasses/goggles.

General Hygienic Practices

Wear impervious clothing to prevent skin contact and contamination of personal clothing. An eye wash facility and washing facility should be available in the work area. Follow applicable regulations and good Industrial Hygiene practice.

Section 9 Physical and Chemical Properties

Appearance	Clear yellow/amber liquid
Odor	Mild
Odor threshold	No data available
pH	Not applicable
Melting point	< 32°F (< 0°C)
Initial boiling point	> 392°F (> 200°C)
Flash point	195.8°F (91.0°C) (Pensky-Martens)
Upper explosion limit	9.50 %(V)
Lower explosion limit	1.30 %(V)

Section 9 Physical and Chemical Properties

Evaporation rate	No data available
Vapor pressure	< 1 hPa at 68°F (20°C)
Vapor density	No data available
Relative density	No data available
Water solubility	Immiscible
Coefficient: n-octanol/water	No data available
Ignition temperature	> 392°F (> 200°C) Method: M0062 (Analytics Wesel)
Decomposition temperature	No data available
Viscosity	No data available

Section 10 Stability and Reactivity

Reactivity: No decomposition if stored and applied as directed.
Chemical Stability: Stable under recommended conditions.
Possibility of Hazardous Reactions: Vapours may form explosive mixture with air.
Conditions to Avoid: Heat, flames, and sparks
Materials to avoid: Keep away from strong acids, strong bases, and oxidizing agents.
Hazardous decomposition products: None expected

Section 11 Toxicological Information

Acute Toxicity Values

Oral LD50 (rat)	Dermal LD50	Inhalation LC50
> 5,000.000000 mg/kg Method: OECD Test Guideline 401 GLP: yes	> 5,000 mg/kg Method: Calculation method	No data available

Acute and chronic health effects

Serious eye damage/eye irritation: Causes serious eye irritation.
Skin corrosion/irritation: Not anticipated
Respiratory or skin sensitization: No data available
Germ cell mutagenicity: No data available
Carcinogenicity: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
 No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
 No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
Reproductive toxicity: No data available
Specific Target Organ Toxicity – single exposure: May cause respiratory irritation, drowsiness or dizziness.
Specific Target Organ Toxicity – repeated exposure: No data available on product.
 Prolonged absorption of Lithium Chloride may cause injury to the kidney and/or blood. Laboratory test results indicate Lithium Chloride may be teratogenic. Reproductive and developmental studies in rats exposed to NMP showed effects including reduced fertility (male and female and reduced mean offspring body weight at birth and throughout lactation. Risk is significantly reduced when impervious gloves are used. Inhalation of NMP is not likely unless it is heated or sprayed. Prolonged skin contact with NMP may cause dermatitis.
Aspiration: No data available

Section 12 Ecological Information

Ecotoxicity: No data available.
Persistence and Degradability: No data available.
Bioaccumulative Potential: No data available.
Mobility in Soil: No data available.

Section 13 Disposal Considerations

Follow applicable federal, state, and local regulations. Contact a licensed contractor for detailed recommendations. Do not dump into sewers, waterways or on the ground.

Section 14 Transport Information

DOT/IMDG/IATA: Not regulated as a dangerous good.

Section 15 Regulatory Information

US Federal Regulations

EPCRA - Emergency Planning and Community Right-to-Know Act, US. EPA CERCLA Hazardous Substances (40 CFR 302): This material does not contain any components with a CERCLA RQ.

SARA 304 - Emergency Release Notification: This material does not contain any components with a section 304 EHS RQ.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III, Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A): This material does not contain any components with a SARA 302 RQ.

SARA 311/312 Hazards: Per the June 13, 2016 Federal Register notice, EPA harmonized the EPCRA 311/312 hazard categories with the 2012 OSHA hazard communication standard for classifying and labeling of chemicals (i.e. GHS). Please refer to Section 2 of the SDS to identify the appropriate hazard categories for reporting purposes.

SARA 313: This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.
1-Methyl-2-pyrrolidone (872-50-4) 47.8 %

Clean Air Act: This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61). This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F). This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

Non-volatile (Wt) : 50 - 58 %, Method: 20min/175°C, DIN EN ISO 3251

40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone – CAA Section 602 Class I Substances: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

US State Regulations

California Proposition 65: ⚠ WARNING This product can expose you to chemicals including 1-Methyl-2-pyrrolidone, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

The components of this product are reported in the following inventories:

TSCA: All substances listed as active on the TSCA inventory
Section 4 / 12(b): The following substance(s) is/are subject to TSCA 12(b) export notification requirements:
Section 6: 1-Methyl-2-pyrrolidone (872-50-4)

DSL: We certify that all of the components of this product are listed on the DSL.

Section 16 Other Information**Disclaimer**

The following supersedes Buyer's documents. SELLER MAKES NO REPRESENTATION OR WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. No statements herein are to be construed as inducements to infringe any relevant patent. Under no circumstances shall Seller be liable for incidental, consequential or indirect damages for alleged negligence, breach of warranty, strict of liability arising in connection with the product(s). Buyer's sole remedy and Seller's sole liability for any claims shall be Buyer's purchase price. Data and results are based on controlled lab work and must be confirmed by Buyer by testing for its intended conditions of use. The product(s) has not been tested for, and is therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses for which implantation within the human body is intended.

Initial release date: June 9, 2025

Previous release date: Not applicable

Current revision date: June 9, 2025