

# SAFETY DATA SHEET



Date Prepared : 12/02/2015

MSDS No : 93048

SRS 200

## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** SRS 200

### MANUFACTURER

Tarr, LLC  
 P.O. Box 12570  
 Portland, OR 97212  
**Product Stewardship:** 503-288-5294

### 24 HR. EMERGENCY TELEPHONE NUMBERS

**CHEMTREC (US Transportation) :**(800) 424 - 9300  
**CANUTEC (Canadian Transportation) :**(613) 996 - 6666

## 2. HAZARDS IDENTIFICATION

### GHS CLASSIFICATIONS

#### Health:

Skin Corrosion, Category 1B  
 Skin Irritation, Category 1B  
 Serious Eye Damage, Category 1  
 Reproductive Toxicity, Category 1B

### GHS LABEL



Corrosion

Health  
hazard

**SIGNAL WORD:** DANGER

### HAZARD STATEMENTS

H314: Causes severe skin burns and eye damage.  
 H360: May damage fertility or the unborn child (state specific effect if known)(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).

### PRECAUTIONARY STATEMENT(S)

#### Prevention:

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P270: Do not eat, drink or smoke when using this product.  
 P280: Wear protective gloves/protective clothing/eye protection/face protection.

#### Response:

P304+P341: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position

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comfortable for breathing.

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor/...

P302+P350: IF ON SKIN: Gently wash with plenty of soap and water.

P307+P311: IF exposed: Call a POISON CENTER or doctor/physician.

**Storage:**

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

P102: Keep out of reach of children.

**Disposal:**

P273: Avoid release to the environment.

4160WT6Y: Dispose of contents/container to an approved waste disposal plant.

**EMERGENCY OVERVIEW**

**IMMEDIATE CONCERNS:** DANGER! CORROSIVE. May cause liver damage. Causes eye, skin and mucous membrane burns. May cause severe respiratory tract irritation with possible burns. May cause severe digestive tract irritation with possible burns. Possible sensitizer. Moisture sensitive. May be harmful if swallowed.

**POTENTIAL HEALTH EFFECTS**

**EYES:** Causes irritation, redness, and pain. May possibly cause corneal clouding.

**SKIN:** Mildly irritating to the skin.

**INGESTION:** May cause gastrointestinal discomfort with any or all of the following symptoms: nausea, vomiting, or diarrhea.

**INHALATION:** Mild irritant if vapor or mist from heated solvent is inhaled. Coughing, possible breathing difficulties may be observed.

**MEDICAL CONDITIONS AGGRAVATED:** No information found.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	Vol. %	CAS
1-Methyl-2-pyrrolidinone	40 - 55	872-50-4
2-(2-Aminoethoxy)Ethanol (1)	40 - 55	929-06-6

**4. FIRST AID MEASURES**

**EYES:** Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open or until all material has been removed. Get medical attention without delay, preferably from an ophthalmologist.

**SKIN:** Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician. Wash contaminated clothing before reuse.

**INGESTION:** If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel. Seek immediate medical attention.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

**ACUTE EFFECTS:** May cause severe skin and respiratory system burns.

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**5. FIRE FIGHTING MEASURES**

**EXTINGUISHING MEDIA:** Use regular foam, dry chemical, or carbon dioxide (CO<sub>2</sub>).

**EXPLOSION HAZARDS:** Above the flash point, explosive vapor-air mixtures may be formed.

**FIRE FIGHTING PROCEDURES:** Fire fighters should wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective clothing.

**6. ACCIDENTAL RELEASE MEASURES**

**GENERAL PROCEDURES:** Remove all sources of ignition and provide ventilation. Wear protective clothing as given in section 8. Dike area to contain spill. Take precautions as necessary to prevent contamination of ground and surface waters. Recover free product, if possible. Cover spill with inert, non-combustible absorbent material and remove to closed containers for disposal using non-sparking equipment. Do not flush to sewer. If area of spill is porous, remove as much contaminated earth and gravel, etc. as necessary and place in closed containers for disposal. Report spill as per regulatory requirements. Leaking drum should be emptied or placed into an oversized (recovery) drum.

**7. HANDLING AND STORAGE**

**HANDLING:** Wash thoroughly after handling. Follow all SDS/label precautions even after container is emptied because it may retain product residues. Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. Never use pressure to empty a container.

**STORAGE:** Keep in a tightly closed container. Store in a cool, dry, ventilated area away from sources of heat or ignition. Protect against physical damage. Store separately from reactive or combustible materials, and out of direct sunlight. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

**COMMENTS:** KEEP OUT OF REACH OF CHILDREN! Empty containers retain product residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks static electricity, or other sources of ignition; they may explode and cause injury or death.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**ENGINEERING CONTROLS:** Provide exhaust ventilation sufficient to keep the airborne concentration of this product below its exposure limits. Exhaust air may need to be cleaned by scrubbers or filters to reduce environmental contamination.

**PERSONAL PROTECTIVE EQUIPMENT**

**EYES AND FACE:** Use chemical safety goggles and/or full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work areas.

**RESPIRATORY:** A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. If use conditions generate vapors or mists, wear a NIOSH-approved respirator appropriate for those emission levels. Appropriate respirators may be a full facepiece air-purifying cartridge respirator equipped for organic vapors/mists., a self-contained breathing apparatus in the pressure demand mode, or a supplied-air respirator.

**PROTECTIVE CLOTHING:** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Some operations may require the use of an impervious full-body encapsulating suit.

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**WORK HYGIENIC PRACTICES:** Use good personal hygiene when handling this product. Wash hands after use, before eating, drinking, smoking, or using the toilet.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Liquid

**ODOR:** Ammonia-like odor.

**COLOR:** Amber

**pH:** > 12

**FLASHPOINT AND METHOD:** (210.2°F) TAG CC

**FLAMMABLE LIMITS:** to 0.9

**VAPOR PRESSURE:** 8 mm Hg at 25°C

**VAPOR DENSITY:** 3-4

**SOLUBILITY IN WATER:** Miscible

**DENSITY:** 8.69

**SPECIFIC GRAVITY:** 1.03 to 1.050

**VISCOSITY:** Not Determined

## 10. STABILITY AND REACTIVITY

**HAZARDOUS POLYMERIZATION:** Will not occur.

**STABILITY:** Stable under ordinary conditions of use and storage. Hygroscopic and basic.

**CONDITIONS TO AVOID:** Avoid heat, flames, ignition sources and incompatibles.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Burning may produce carbon dioxide, carbon monoxide, nitrogen oxides.

**INCOMPATIBLE MATERIALS:** Strong oxidants and acids. Reacts with chlorinating agents to form the amide. Reacts with sulfur or carbon disulfide at high temperatures and pressures.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE

Chemical Name	ORAL LD <sub>50</sub> (rat)	DERMAL LD <sub>50</sub> (rabbit)	INHALATION LC <sub>50</sub> (rat)
1-Methyl-2-pyrrolidinone	3914 mg/kg	2200 to 4000	> 5100

**EYE EFFECTS:** Direct contact with eyes may cause severe burns. Severe overexposure may cause blindness.

**SKIN EFFECTS:** Direct contact with the skin causes severe burns. The effects may be delayed several hours if initial first aid measures are inadequate. Severe scarring may result.

### CARCINOGENICITY

**IARC:** None Expected.

**NTP:** None Expected.

**MUTAGENICITY:** 1-methyl-2-pyrrolidinone: Investigated as a mutagen, reproductive effector.

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**12. ECOLOGICAL INFORMATION**

**ENVIRONMENTAL DATA:** When 1-methyl-2-pyrrolidinone is released into the soil, this material may biodegrade to a moderate extent. When released into the soil, this material may evaporate to a moderate extent. When released into water, this material is not expected to evaporate significantly. This material is not expected to significantly bioaccumulate. When released into the air, this material is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material may be removed from the atmosphere to a moderate extent by wet deposition.

**ECOTOXICOLOGICAL INFORMATION:** Avoid uncontrolled releases of this material. Where spills are possible, a comprehensive spill response plan should be developed and implemented.

**AQUATIC TOXICITY (ACUTE)**

**96-HOUR LC<sub>50</sub>:** 460 mg/l (fish)

**48-HOUR EC<sub>50</sub>:** 190 mg/l (Daphnia)

**96-HOUR EC<sub>50</sub>:** 160 mg/l (72 hr.) (green algae)

**13. DISPOSAL CONSIDERATIONS**

**DISPOSAL METHOD:** Federal, state and local disposal laws and regulations will determine the proper waste disposal/recycling/reclamation procedure. Disposal requirements are dependent on the hazard classification and will vary by location and the type of disposal selected.

**EMPTY CONTAINER:** KEEP OUT OF REACH OF CHILDREN! Empty containers retain product residue and can be dangerous. Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Do not pressurize, cut weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks static electricity, or other sources of ignition.

**RCRA/EPA WASTE INFORMATION:** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**14. TRANSPORT INFORMATION****DOT (DEPARTMENT OF TRANSPORTATION)**

**PROPER SHIPPING NAME:** 2-(2-Aminoethoxy) Ethanol Solution

**PRIMARY HAZARD CLASS/DIVISION:** 8

**UN/NA NUMBER:** UN3055

**PACKING GROUP:** II

**NAERG:** 154

**15. REGULATORY INFORMATION****UNITED STATES****SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

**311/312 HAZARD CATEGORIES:** This product should be reported as an immediate (acute) health hazard.

**FIRE:** No **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** Yes

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**313 REPORTABLE INGREDIENTS:** n-methyl-2-pyrrolidinone (CAS 872-50-4)

**TSCA (TOXIC SUBSTANCE CONTROL ACT)**

**TSCA STATUS:** All ingredients in this mixture are in compliance with TSCA.

**GENERAL COMMENTS:** The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

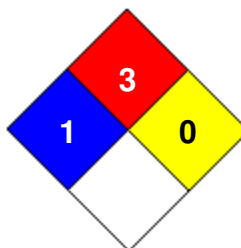
**16. OTHER INFORMATION**

**APPROVED BY:** Compliance

**PREPARED BY:** Compliance    **Date Prepared:** 12/02/2015

**HMIS RATING**

<b>HEALTH</b>	*	<b>3</b>
<b>FLAMMABILITY</b>		<b>1</b>
<b>PHYSICAL HAZARD</b>		<b>0</b>
<b>PERSONAL PROTECTION</b>		<b>G</b>

**NFPA CODES**

**NFPA STORAGE CLASSIFICATION:** These ratings are part of a specific hazard communication program and should be disregarded where individuals are not trained in the use of this hazard rating system. You should be familiar with the hazard communication programs applicable to your workplace.

**HMIS RATINGS NOTES:** The HMIS rating involves data interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in the SDS must be considered.

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