## Section 1. Product and Company Identification

**Product Name** Sodium Tolyltriazole 50%
**CAS Number** 64665-57-2

**Parchem - fine & specialty chemicals**
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EMERGENCY RESPONSE NUMBER
CHEMTEL
Toll Free US & Canada: 1 (800) 255-3924
All other Origins: 1 (813) 248-0585
Collect Calls Accepted

## Section 2. Hazards Identification

**Classification of the substance or mixture**
**GHS Classification**
Skin Corrosion/Irritation (Category 1C)
Eye Damage/Irritation (Category 1)
Acute Oral Toxicity (Category 4)
Acute Dermal Toxicity (Category 5)

**GHS Label Elements**

**Pictograms:**

**Signal word:** Danger

**Hazard and precautionary statements**
**Hazard Statements**
H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage
H318: Causes serious eye damage

**Precautionary Statements**
**Prevention**
P280: Wear protective gloves, protective clothing such as apron, boots, and safety glasses with side shields.
P264: Wash all affected body parts thoroughly after handling with water.
P270: Do not eat, drink or smoke when using this product.

**Response**
P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P363: Wash contaminated clothing before reuse.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P301 + 312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P321: Immediately call a doctor if you feel unwell.
P273: Avoid release to the environment.
P501: Dispose of contents/container in accordance with local/state/federal regulations.

## Section 3. Composition / Information on Ingredients

**Common Name** Sodium Tolyltriazole 50%
**Formula** $C_7H_6N_3{\cdot}Na$
**CAS Number** 64665-57-2

| COMPONENT | CAS NUMBER | CONCENTRATION |
|---|---|---|
| Sodium Tolyltriazole 50% | 64665-57-2 | 35 - 50% |

## Section 4. First Aid Measures

**Description of First-air Measures**
**Eye contact:** Get medical attention immediately. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
**Inhalation:** Get medical attention immediately. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
**Skin Contact:** Get medical attention immediately. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
**Ingestion:** Get medical attention immediately. Wash out mouth with water. Remove dentures if any. 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. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by

mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt, or waistband.
**Protection of First-aiders:** No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

**Most important symptoms and effects, both acute and delayed**
**Potential acute health effects**
**Eye Contact:** Corrosive to eyes. Causes burns
**Inhalation:** May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
**Skin Contact:** Corrosive to the skin. Causes burns.
**Ingestion:** Harmful if swallowed. May cause burns to mouth, throat and stomach

**Over-exposure signs/symptoms**
**Eye Contact:** Adverse symptoms may include the following: Pain; watering; redness
**Inhalation:** No specific data
**Skin Contact:** Adverse symptoms may include the following: Pain or irritation; redness; blistering may occur.
**Ingestion:** Adverse symptoms may include the following: Stomach pains

**Indication of any immediate medical attention and special treatment needed**
**Notes to physician:** In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
**Specific Treatments:** No specific treatment

## Section 5. Firefighting Measures

**Extinguishing media**
**Suitable extinguishing media:** Use an extinguishing agent suitable for the surrounding fire.
**Unsuitable extinguishing media:** Do not use water jet.

**Special hazards arising from the substance or mixture**
**Hazards from the substance or mixture:** 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; nitrogen oxides; metal oxide/oxides.

**Advice for firefighters**
**Special protective actions for firefighters:** 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 firefighters:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## Section 6. Accidental Release Measures

**Personal precautions, protective equipment, and emergency procedures**
**For non-emergency personnel:** 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 spilt material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
**For emergency responders:** Put on appropriate personal protective equipment

**Environmental Precautions:** Avoid dispersal of spilt 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**
**Small Spill:** Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
**Large spill:** Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

**Reference to other sections**
See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

## Section 7. Handling and Storage

**Precautions for safe handling**
**Protective measures:** Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from acids. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Advice on general occupational hygiene:** Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking, and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures

**Conditions for safe storage, including any incompatibilities:** 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. Separate from acids. 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.

## Section 8. Exposure Controls / Personal Protection

**Control parameters**
**Occupational exposure limits:** No exposure limit value known.

**Recommended monitoring procedures:** If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

**DNELs/DMELs:** No DNELs/DMELs available.
**PNECs:** No PNECs available

**Exposure controls**
**Appropriate engineering controls:** If user operations generate dust, fumes, gas, vapor, or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Individual Protection Measures**
**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.

**Eye/Face Protection:** Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

**Skin Protection**

**Hand Protection:** Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body Protection:** Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Other Skin Protection:** Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory Protection:** Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**Environmental Exposure Controls:** Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## Section 9. Physical and Chemical Properties

**Information on basic physical and chemical properties**

**Appearance**

**Physical State:** Liquid (Clear)

**Color:** Amber

**Odor:** Amine-like

**Odor Threshold:** Not available

**pH (10% w/w):** 11.7

**Melting/Freezing Point:** Not available

**Initial Boiling Point/Range:** Not available

**Flash Point:** Not available

**Evaporation Rate:** Not available

**Flammability (Solid, gas):** Not available

**Burning Time:** Not available

**Burning Rate:** Not available

**Upper/lower flammability or explosive limits:** Not available
**Vapor Pressure:** Not available
**Vapor Density:** Not available
**Relative Density:** Not available
**Solubility:** Not available
**Solubility in Water:** Not available
**Partition coefficient (n-Octanol/Water):** Not available
**Auto-ignition temperature:** Not available
**Decomposition Temperature:** Not available
**Viscosity:** Not available
**Explosive Properties:** Not available
**Oxidizing Properties:** Not available

**Other Information**
**Density:** 1.193 g/cm$^3$

## 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.
Under normal conditions of storage and use, hazardous polymerization will not occur.

**Conditions to avoid:** No specific data
**Incompatible materials:** Reactive or incompatible with the following materials: Acids

**Hazardous decomposition products:** Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological Information

**Information on toxicological effects**
**Acute Toxicity**
**Product:** Sodium Tolytriazole
**LD50 - Oral - Rat:** 640 mg/kg
**Conclusion/Summary:** Not available

**Acute toxicity estimates**
**Oral:** 1280.8 mg/kg

**Irritation/Corrosion**

| Product | Result | Species | Score | Exposure | Observation |
|---|---|---|---|---|---|
| Sodium Tolytriazole | Skin - Severe Irritant | Rabbit | - | 50% | - |

**Conclusion/Summary:** Not available

**Sensitization**
**Conclusion/Summary:** Not available

**Mutagenicity**
**Conclusion/Summary:** Not available

**Carcinogenicity**
**Conclusion/Summary:** Not available

**Reproductive Toxicity**
**Conclusion/Summary:** Not available

**Teratogenicity**
**Conclusion/Summary:** Not available

**Information on the likely routes of exposure:** Routes of entry anticipated: Oral, Dermal, Inhalation.

**Potential Acute Health Effects**
**Eye Contact:** Corrosive to eyes. Causes burns
**Inhalation:** May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
**Skin Contact:** Corrosive to the skin. Causes burns.
**Ingestion:** Harmful if swallowed. May cause burns to mouth, throat and stomach

**Symptoms related to the physical, chemical, and toxicological characteristics**
**Eye Contact:** Adverse symptoms may include the following: Pain; watering; redness
**Inhalation:** No Specific Data
**Skin contact:** Adverse symptoms may include the following: Pain or irritation; redness; blistering may occur.
**Ingestion:** Adverse symptoms may include the following: stomach pains

**Delayed and immediate effects and also chronic effects from short and long term exposure**
**Short-term exposure**
**Potential Immediate Effects:** Not available
**Potential Delayed Effects:** Not available

**Long-term exposure**
**Potential Immediate Effects:** Not available
**Potential Delayed Effects:** Not available

**Potential chronic health effects:** Not available

**Conclusion/Summary:** 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.

**Other Information:** Not available

## Section 12. Ecological Information

**Toxicity:** Not available
**Persistence and degradability:** Not available
**Bioaccumulative potential:** Not available

**Mobility in soil**
**Soil/water partition coefficient (KOC):** Not available
**Mobility:** Not available

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

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

## Section 13. Disposal Considerations

**Waste Treatment Methods:** Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

## Section 14. Transport Information

**ADR/RID, AND, IMDG, and IATA**
**UN Number:** UN1719
**UN Proper Shipping Name:** CAUSTIC ALKALI LIQUID, N.O.S. (sodium tolyltriazole, sodium hydroxide)
**Transport Hazard Class:** Class 8
**Packing Group:** PG II

**Environmental Hazards:** No

**Additional information**
**ADR/RID**
**Hazard identification number:** 80
**Limited quantity:** 1 L
**Special provisions:** 274
**Tunnel code:** (E)

**IMDG**
**Emergency schedules (EmS):** F-A, S-B

**IATA**
**Passenger and Cargo Aircraft**
**Quantity limitation:** 1 L
**Packaging instructions:** 851
**Cargo Aircraft Only**
**Quantity limitation:** 30 L
**Packaging instructions:** 855
**Limited Quantities - Passenger Aircraft**
**Quantity limitation:** 0.5 L
**Packaging instructions:** Y840

**Special precautions for user: Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** Not available

## Section 15. Regulatory Information

**U.S. Federal Regulations**
**TSCA:** All components of this product are listed on the TSCA inventory.
**CERCLA:** No components of this product were found to be on the hazardous chemicals list.
**SARA TITLE III Section 302/304:** No components of this product were found to be on the hazardous chemicals list.
**SARA TITLE III Section 311/312:** Acute health hazard.

**Safety, health, and environmental regulations/legislation specific for the substance or mixture**
**EU Regulation (EC) No. 1907/2006 (REACH)**
**Annex XIV - List of substances subject to authorization**
**Substances of very high concern:** None of the components are listed

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures, and articles:** Not applicable.

**Other EU Regulations**
**Europe inventory:** Not determined.
**Seveso II Directive:** This product is not controlled under the Seveso II Directive.

**Chemical Safety Assessment:** This product contains substances for which Chemical Safety Assessments are still required.

**Registration status:** Mixture. Information concerning the substance: Contact local supplier or distributor.

**HMIS**
**Health:** 3
**Flammability:** 0
**Physical Hazard:** 0
**Personal Protection:** C

## Section 16. Other Information

**Disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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