SAFETY DATA SHEET

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

IDEAS INC
625 SOUTH MAIN STREET
LOMBARD, ILLINOIS 60148

I. PHYSICAL DATA

PRODUCT NAME: **Tolytriazole Solution, 50% in Water**
CHEMICAL NAME: Sodium Tolytrizole 50%
FORMULA: Trade Secret

INFORMATION PHONE: 1-800-274-2010
EMERGENCY PHONE: 1-800-424-9300

II. HAZARDOUS IDENTIFICATION

NFPA RATING (SCALE 0-4) Health = 2 Flammability = 0 Reactivity = 0

EMERGENCY OVERVIEW: Do not ingest. Do not inhale dust. Use adequate ventilation and wash after handling.

GHS CLASSIFICATION:

Health	**Environmental**
Acute Oral Toxicity: Cat. 4 Eye Irritation: Cat. 1 Skin Corrosion/Irritation: Cat. 1A Serious Eye Damage/Irritation: Cat 1 Reproductive Toxicity: Category 2	Acute Aquatic Toxicity: Cat 2 Chronic Aquatic Toxicity: Cat 2

GHS LABEL ELEMENTS:
Symbol(s):



Signal Word

Danger

Hazard Statements

Corrosive! Harmful if swallowed. Causes severe skin burns and eye damage. Causes serious eye damage. Suspected of damaging fertility or the unborn child. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Precautionary Statements

Wear protective gloves/protective clothing/eye protection/face protection IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or you feel unwell: Call a doctor/physician.

III. COMPOSITION/ INFORMATION ON INGREDIENTS

COMPONENT: Trade Secret
CAS NUMBER:

Sodium tolytriazole	64665-57-2	>45%
Water	7732-18-5	>45%

IV. FIRST AID MEASURES

EYE CONTACT: Wash eyes with water for at least 30 minutes. If irritation persists, get medical attention.
SKIN CONTACT: Wash affected area with soap and water for approximately 30 minutes
INHALATION: Remove exposed person to fresh air.
INGESTION: Do not induce vomiting. Get immediate medical attention.

V. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use carbon dioxide, foam, sand or sodium bicarbonate.

SPECIAL FIRE FIGHTING PROCEDURES: Avoid breathing vapors or dusts. Use self-contained breathing apparatus with full face piece and protective clothing.

UNUSUAL FIRE AND EXPLOSIVE HAZARDS: None known.

VI. ACCIDENTAL RELEASE MEASURES

IF MATERIAL IS RELEASED OR SPILLED: Contain spill and transfer to suitable containers.

Stop leak if you can do it without risk.
Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. If material is too viscous for pumping scrape it up with shovels into suitable containers for recycle or disposal.
Large Spills: Dike far ahead of spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

VII. HANDLING AND STORAGE

STORAGE: Observe all federal, state and local regulations when storing or disposing of this substance. Keep away from incompatible substances.

Use good engineering practices to establish good ventilation. Avoid contact with skin, eyes and clothing. Wear suitable protective equipment to protect from contact. Avoid breathing mist or vapors. Wash skin thoroughly after handling. Store inn closed containers away from extreme heat, sparks, open flame or oxidizing materials.

VIII. EXPOSURE CONTROLS/ PERSONAL PROTECTION

EXPOSURE GUIDELINES: Not established.

SKIN PROTECTION: Wear appropriate protective gloves to prevent direct contact.

EYE PROTECTION: Wear safety goggles to prevent eye contact with substance.

RESPIRATORY PROTECTION: Under certain circumstances where airborne concentration is expected to exceed exposure limits, select a NIOSH/MSHA approved respirator based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations.

OTHER PROTECTIVE

EQUIPMENT: Impervious apron if needed to avoid prolonged or repeated skin contact.

ENGINEERING CONTROLS: Good general ventilation and/or local exhaust ventilation at the point of generation is recommended.

PERSONAL PROTECTIVE EQUIPMENT (Pictograms):



IX. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT:	212°F (100°C)
pH:	11.8 (10% solution)
VAPOR PRESSURE:	0.0533 hPa @ 25°C
SOLUBILITY IN WATER:	Miscible
EVAPORATION RATE:	<1
VISCOSITY (cSt @25°C):	32.5
PERCENT VOLATILE BY VOLUME:	50%
APPEARANCE:	Yellow to Brownish/Red Liquid
ODOR:	Mild odor
SPECIFIC GRAVITY:	1.19
VAPOR DENSITY:	5.2
FLASH POINT:	260°F
FLAMMABLE LIMITS	**LOWER:** N/A **UPPER:** N/A

X. STABILITY AND REACTIVITY

REACTIVITY:	Not reactive under normal use conditions.
STABILITY:	This product is stable at ambient temperatures.
CONDITIONS TO AVOID:	Extreme heat or cold.
INCOMPATIBILITY:	Avoid contact with strong acids and strong oxidizers.
HAZARDOUS DECOMPOSITION PRODUCTS:	Exposure to high temperatures, such as those associated with fires causes product decomposition, resulting in the release of carbon monoxide, carbon dioxide, and other decomposition products.
HAZARDOUS POLYMERIZATION:	Will not occur.

XI. TOXICOLOGY INFORMATION

Sodium Tolytriazole

Components	Exposure	Species	Dose	Notes
Oral	LD50	Rat	1980 mg/kg	
Dermal	LD50	Rabbit	2000 mg/kg	

POTENTIAL ACUTE HEALTH EFFECTS:

Eye: Eye contact may result in burning, swelling or pain.

Skin: Skin contact causes redness, itching, or swelling.

Ingestion: May result in severe pain, vomiting, diarrhea or collapse.

Inhalation: Inhalation of vapors or mist may be irritating to respiratory passages. Target Organ for mineral oil mist is lungs. Prolonged exposure may result in dizziness and nausea.

POTENTIAL CHRONIC HEALTH EFFECTS:

Chronic effects: repeated exposure to eyes or skin may cause destruction of tissue, corneal damage or conjunctivitis.

Target organs: 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.

Fertility effects: No known significant effects or critical hazards.

Developmental effects: No known significant effects or critical hazards.

XII. ECOLOGICAL INFORMATION

Ecotoxicity: Acute toxicity of sodium Tolytriazole

Toxicity to fish: LC_{50}/96h/*S. gairdneri* = 25mg/l

Toxicity to crustacean: LC_{50}/*D. magna* = 280 mg/l

Toxicity to algae: EC_{50}/72h/*S. capricornutum* = 26.2 mg/l

Persistence and degradability: Readily biodegradable (*Benzotriazoles Category Justification and Testing Rationale.* Rep., 2001. Print.)

Bioaccumulation potential: Log Kow: 0.658

Mobility in soil: Data not available

XIII. DISPOSAL INFORMATION

WASTE DISPOSAL: Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state and local regulations.

XIV. TRANSPORTATION INFORMATION

DOT CLASSIFICATION

Proper Shipping Name:	Corrosive liquid, Basic, Organic, N.O.S. (Sodium Tolytriazole)
Class:	8
UN Number:	UN 3267
PG:	III

XV. REGULATORY INFORMATION

STATUS:
US (TSCA): Y
CANADA (DSL): Y
EUROPE (EINECS/ELINCS): Y
AUSTRALIA (AICS): Y
CHINA (IESCS): Y
JAPAN (ENCS): Y
SOUTH KOREA (KECI): Y

Y= All ingredients are on the inventory or exempt from listing
N= One or more non-exempt ingredients are not on the inventory

SECTION 302 EXTREMELY HAZARDOUS CHEMICALS:

Component	CAS#	% by Wt.
None		

SECTION 313 TOXIC CHEMICALS:

Component	CAS#	% by Wt.
None		

SARA TITLE III:
ACUTE (IMMEDIATE HEALTH HAZARD): Yes
CHRONIC (DELAYED HEALTH HAZARD): Yes
SUDDEN PRESSURE RELEASE: No
FIRE HAZARD: No
REACTIVE HAZARD: No

CERCLA (Comprehensive Environment Response, Compensation and Liability Act):

There is no calculable reportable quantity (RQ) for this product. This product has been reviewed according to the EPA Hazard Categories promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986.

U.S. STATE REGULATIONS:

NEW JERSEY RIGHT-TO-KNOW:
Sodium Tolytriazole

PENNSYLVANIA RIGHT-TO-KNOW:
Sodium Tolytriazole

CALIFORNIA PROPOSITION 65 CARCINOGENS:
No CA Proposition 65 Carcinogens exist in this product.
CALIFORNIA PROPOSITION 65 REPRODUCTIVE TOXINS:
No CA Proposition 65 Reproductive Toxins exist in this product.

CLEAN WATER ACT: Under section 311 (b) (4) of this act, contamination of surface waters by petroleum products must be reported immediately to the National Response Center.

XVI. OTHER INFORMATION

TSCA (TOXIC SUBSTANCE CONTROL ACT) STATUS:
All components of this formula are included in the TSCA inventory. This product does not contain nor was manufactured with Class 1 or 11 ozone depleting chemicals, Section 611 of the Clean Air Act.

The information appearing in this document is based upon data obtained from raw material manufacturers and/or recognized technical sources. While this information is believed to be correct, IDEAS INC makes no representations as to its accuracy or sufficiency, usage or the hazards connected with the use of this material. Since this product may be applied under conditions unfamiliar to us or beyond our control, we claim no responsibility for the results of its use, and users are responsible for the verification of this information under their own operating conditions to determine whether the product is suitable for their particular purposes, and these users assume all risks of their use, handling, and disposal of the product. This information relates only to the product designated above and does not relate to its use in combination with any other process.