SAFETY DATA SHEET



Section 1. Identification

Product identifier : ADDITIN RC 5801

Material Number : 56661291

Identified uses : additive for lubricants

Supplier/Manufacturer : RHEIN CHEMIE CORPORATION

145 Parker Court Chardon, Ohio 44024

USA

In case of emergency: Chemtrec 1-800-424-9300 International 1-703-527-3887.

Section 2. Hazards identification

HAZCOM Standard Status : This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Physical state : Liquid.

Color : Tan.

Classification of the substance or mixture : ACUTE TOXICITY (oral) - Category 4

Hazard pictograms :



Signal word : Warning

Hazard statements: Harmful if swallowed.

Hazard Not Otherwise Classified (HNOC)

Precautionary statements

Prevention : Do not eat, drink or smoke when using this product. Wash hands thoroughly after

handling.

: None known.

Response : Get medical attention if you feel unwell. IF SWALLOWED: Rinse mouth.

Storage : Not applicable.

Disposal : Dispose of contents and container in accordance with all local, regional, national and

international regulations.

Supplemental label

elements

: Store in original container protected from direct sunlight in a dry, cool and well-ventilated

area, away from incompatible materials and food and drink.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	CAS number
Tolytriazole	37 - 43%	29385-43-1

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Check for and remove any contact lenses. Get medical attention if irritation

occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get

medical attention if adverse health effects persist or are severe. 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. If not breathing, if breathing is irregulor or respiratory arrest occurs, provide artifical respiration, or oxygen by a trained

professional, using a pocket type respirator.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes.

Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes

thoroughly before reuse.

Ingestion : Wash out mouth with water. 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. 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. Get medical attention. 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.

Potential acute health effects

Eye contact
 Inhalation
 Skin contact
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

Ingestion : Harmful if swallowed.

Over-exposure signs/symptoms

Eye contact : No specific data.
Inhalation : No specific data.
Skin contact : No specific data.

Ingestion : Symptoms of ingestion may include abdominal pain, nausea, vomiting, and diarrhea.

Potential chronic health effects

No known significant effects or critical hazards.

Notes to physician : Treat symptomatically. No specific treatment.

Protection of first-aiders: No special measures required.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire. In case of fire, use water spray (fog), foam or dry chemical.

Unsuitable extinguishing

media

: None known.

Specific hazards arising from the chemical

: In the event of fire be aware of formation of noxious fumes. Vapors may form explosive mixtures with air.

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Section 5. Fire-fighting measures

Hazardous thermal decomposition products

: Decomposition products may include the following materials: carbon dioxide carbon monoxide

Special protective actions for fire-fighters

: 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 fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

nitrogen oxides

Personal precautions, protective equipment and emergency procedures

: 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 spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Environmental precautions

: Avoid dispersal of spilled 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

: Stop leak if without risk. Move containers from spill area. Approach release from upwind. 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 (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal. Prevent entry into sewers, water courses, basements or confined areas.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Remove contaminated clothing and protective equipment before entering eating areas. Workers should wash hands and face before eating, drinking and smoking. Put on appropriate personal protection equipment. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Conditions for safe storage: 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. 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. Empty containers retain product residue and can be hazardous. Do not reuse container.

Section 8. Exposure controls/personal protection

Occupational exposure limits

No exposure limit value known.

Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protection

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Section 8. Exposure controls/personal protection

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.

Respiratory protection : 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. A NIOSH approved air purifying respirator with organic vapor cartridges and particulate prefilter

can be used to minimize exposure.

Skin protection : Permeation resistant clothing and foot protection. Permeation resistant gloves.

: If contact with product is possible, wear safety glasses with side shields. Eye/face protection

: Not available. **Medical Surveillance**

Section 9. Physical and chemical properties

Physical state Liquid. Color Tan.

Odor Characteristic. Odor threshold Not available.

5 pH

Boiling point Not available. **Melting point** <0°C (<32°F) : Not available. Flash point **Evaporation rate** Not available. **Explosion limits** Not available. Vapor pressure Not available. Density 1.08 g/cm³ 1.08

Specific gravity (Relative

density)

Solubility 10 g/l (water) Partition coefficient: n-Not available.

octanol/water

Vapor density Not available.

Viscosity Kinematic: 1.1 cm²/s

Not available. Auto-ignition temperature **Decomposition temperature**: Not available.

Section 10. Stability and reactivity

: No specific test data related to reactivity available for this product or its ingredients. Reactivity

Chemical stability : The product is stable.

Possibility of hazardous

reactions

: Extremes of temperature and direct sunlight. Conditions to avoid

Incompatible materials : Reducing agents, oxidizing agents, acids and bases

Hazardous decomposition : Under normal conditions of storage and use, hazardous decomposition products should

: Under normal conditions of storage and use, hazardous reactions will not occur.

products not be produced.

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Section 11. Toxicological information

Information on the likely routes of exposure

: Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.

Ingestion : Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.
Inhalation : No specific data.
Skin contact : No specific data.

Ingestion : Symptoms of ingestion may include abdominal pain, nausea, vomiting, and diarrhea.

Potential chronic health effects

Short term exposure

Potential immediate

: Not available.

effects

Long term exposure

Potential delayed effects : 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.

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure	Test
Tolytriazole	LD50 Oral	Rat	720 mg/kg	-	-
Tolytriazole	LD50 Dermal	Rabbit - Male, Female	>4000 mg/kg	-	-

Irritation/Corrosion

Conclusion/Summary

Skin : Tolytriazole:Non-irritating (Rabbit)

Eyes : Tolytriazole:Non-irritating (Rabbit)

Sensitization

	Route of exposure	Species	Result
Tolytriazole	skin	Guinea pig	Not sensitizing

Skin : Tolytriazole:Non-sensitizer.

Chronic toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Tolytriazole	Chronic NOAEL Oral	Rat	150 mg/kg	28 days; daily

Mutagenicity

Section 11. Toxicological information

Product/ingredient name	Test	Experiment	Result
Tolytriazole	NO PROPERTY AND ADMINISTRATION OF THE SECOND	Experiment: In vitro Subject: Bacteria Metabolic activation: +/-	Negative
	Micronucleus assay	Experiment: In vivo Subject: Mammalian-Animal	Negative

Carcinogenicity

Product/ingredient name	CAS#	IARC	NTP	OSHA
Tolytriazole	29385-43-1	Not classified.	Not classified.	Not classified.

Acute toxicity estimates

Route	ATE value (Acute Toxicity Estimates)
Oral	1800 mg/kg

Section 12. Ecological information

Toxicity

Product/ingredient name	Test	Result	Species	Exposure
Tolytriazole	-	Acute EC50 35.4 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	-	Acute IC50 62 mg/l Fresh water	Algae - Scenedesmus subspicatus	72 hours
	-	Acute LC50 25.5 mg/l Fresh water	Fish - Pimephales promelas	96 hours
	-	Acute NOEC 32 mg/l Fresh water	Algae - Skeletonema costatum	72 hours
	-	Chronic NOEC 18.4 mg/l	Daphnia - Daphnia magna	21 days

Conclusion/Summary : Not available.

Persistence and degradability

Conclusion/Summary : Not available.

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

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

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Waste disposal should be in accordance with existing federal state, provincial and or local environmental controls laws.

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Section 13. Disposal considerations

RCRA classification

: If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	-	-	-	9 - 2		Not regulated.
IMDG Class	-	-	-	_		Not regulated.
IATA-DGR Class	-	-				Not regulated.

PG*: Packing group

RQ : 0 lbs

Section 15. Regulatory information

SARA 311/312 : Immediate (acute) health hazard

: None

: None

SARA Title III Section 302

Extremely Hazardous

Substances

Toxic Chemicals

US EPA CERCLA : None

Hazardous Subtances (40

SARA Title III Section 313

CFR 302)

State regulations

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections on the SDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

Ingredient name	CAS number	State Code	Concentration (%)
Dipropylene Glycol	25265-71-8	PA - RTK HS	57 - 63%
Tolytriazole	29385-43-1		37 - 43%

Massachusetts Substances: MA - S

Massachusetts Extraordinary Hazardous Substances: MA - Extra HS

New Jersey Hazardous Substances: NJ - HS

Pennsylvania RTK Hazardous Substances: PA - RTK HS Pennsylvania Special Hazardous Substances: PA - Special HS

California Prop. 65

To the best of our knowledge, this product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm.

U.S. Toxic Substances

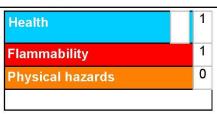
: Listed on the TSCA Inventory.

Control Act

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Section 16. Other information

Hazardous Material Information System



0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme *=Chronic

The customer is responsible for determining the PPE code for this material. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

National Fire Protection Association (U.S.A.)



0= Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

LANXESS' method of hazard communication is comprised of Product Labels and Safety Data Sheets. HMIS and NFPA ratings are provided by LANXESS as a customer service.

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Product Safety and Regulatory Affairs

Indicates information that has changed from previously issued version.

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