


# SAFETY DATA SHEET



## Section 1. Identification

- Product identifier** : ADDITIN RC 4295  
**Material Number** : 56664991  
**Identified uses** : Additive for lubricants  
**Supplier/Manufacturer** : RHEIN CHEMIE CORPORATION  
145 Parker Court  
Chardon, Ohio 44024  
USA  
  
For information: US/Canada (800) LANXESS  
International +1 412 809 1000  
**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** : Dark brown
- Classification of the substance or mixture** : SKIN CORROSION/IRRITATION - Category 2  
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2  
SKIN SENSITIZATION. - Category 1  
Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 77.2%
- Hazard pictograms** : 
- Signal word** : Warning
- Hazard statements** : Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction.  
**Hazard Not Otherwise Classified (HNOC)** : None known.
- Precautionary statements**
- Prevention** : Wear protective gloves and eye/face protection. Avoid breathing vapor. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
- Response** : IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
- 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

<b>Ingredient name</b>	<b>%</b>	<b>CAS number</b>
Benzenesulfonic Acid, Di-C10-18-Alkyl Derivatives, Calcium Salts	31 - 37%	93820-57-6
Sodium Petroleum Sulphonates	5 - 10%	68608-26-4
Alkyl Amine	0.1 - 1%	68955-53-3

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. Continue to rinse for at least 10 minutes. Get medical attention.
- 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. If not breathing, if breathing is irregular or respiratory arrest occurs, provide artificial respiration, or oxygen by a trained professional, using a pocket type respirator.
- Skin contact** : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse. In case of contact, flush skin with plenty of water for at least 20 minutes.
- 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 if adverse health effects persist or are severe. 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** : Causes serious eye irritation.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Causes skin irritation. May cause an allergic skin reaction.
- Ingestion** : Irritating to mouth, throat and stomach.

### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Inhalation** : No specific data.
- Skin contact** : Causes irritation with symptoms of reddening, itching, and swelling. Once sensitized, an allergic skin reaction may occur with reddening, swelling, and rash when subsequently exposed to very low levels.
- Ingestion** : No specific data.

### Potential chronic health effects

## Section 4. First aid measures

Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

**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 a fire or if heated, a pressure increase will occur and the container may burst. Vapors may form explosive mixtures with air. In the event of fire be aware of formation of noxious fumes.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
sulfur oxides  
metal oxide/oxides

**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

**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 get in eyes or on skin or clothing. Do not ingest. 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. Persons with a history of skin sensitization to this product should not be employed in any process in

## Section 7. Handling and storage

which this product is used.

**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

**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. Contaminated work clothing should not be allowed out of the workplace. 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.

**Eye/face protection** : chemical splash goggles.

**Medical Surveillance** : Not available.

## Section 9. Physical and chemical properties

<b>Physical state</b>	: Liquid.
<b>Color</b>	: Dark brown
<b>Odor</b>	: Slight
<b>Odor threshold</b>	: Not available.
<b>pH</b>	: Not available.
<b>Boiling point</b>	: Not available.
<b>Melting point</b>	: Not available.
<b>Flash point</b>	: Closed cup: 180°C (356°F)
<b>Evaporation rate</b>	: Not available.
<b>Explosion limits</b>	: Not available.
<b>Vapor pressure</b>	: Not available.
<b>Density</b>	: 0.94 g/cm <sup>3</sup>
<b>Specific gravity (Relative density)</b>	: Not available.
<b>Solubility</b>	: Insoluble in the following materials: cold water
<b>Partition coefficient: n-octanol/water</b>	: Not available.
<b>Vapor density</b>	: Not available.
<b>Viscosity</b>	: Kinematic: 9 cm <sup>2</sup> /s
<b>Auto-ignition temperature</b>	: Not available.

## Section 9. Physical and chemical properties

**Decomposition temperature** : Not available.

## 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.  
**Conditions to avoid** : Extremes of temperature and direct sunlight.  
**Incompatible materials** : Reducing agents, oxidizing agents, acids and bases  
**Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

**Information on the likely routes of exposure** : Dermal contact. Eye contact. Inhalation. Ingestion.

### Potential acute health effects

**Eye contact** : Causes serious eye irritation.  
**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : Causes skin irritation. May cause an allergic skin reaction.  
**Ingestion** : Irritating to mouth, throat and stomach.

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness  
**Inhalation** : No specific data.  
**Skin contact** : Causes irritation with symptoms of reddening, itching, and swelling.  
Once sensitized, an allergic skin reaction may occur with reddening, swelling, and rash  
when subsequently exposed to very low levels.  
**Ingestion** : No specific data.

### Potential chronic health effects

#### Short term exposure

**Potential immediate effects** : Not available.

#### Long term exposure

**Potential delayed effects** : Not available.  
**General** : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.  
**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

## Section 11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure	Test
ADDITIN RC 4295	LD50 Oral	Rat	>2000 mg/kg	-	-
Sodium Petroleum Sulphonates	LD50 Dermal	Rabbit - Male, Female	>5000 mg/kg	-	-
Alkyl Amine	LD50 Dermal	Rat	251 mg/kg	-	-
Alkyl Amine	LC50 Inhalation Vapor	Rat - Male	>1.75 mg/l	4 hours	-
	LC50 Inhalation Vapor	Rat - Female	1.19 mg/l	4 hours	-

### Irritation/Corrosion

#### Conclusion/Summary

- Skin** : irritant (Rabbit) The data is based on the toxicological properties of individual components of the product.
- Eyes** : irritant (Rabbit) The data is based on the toxicological properties of individual components of the product.

### Sensitization

Product/ingredient name	Route of exposure	Species	Result
Alkyl Amine	skin	Guinea pig	Sensitizing

- Skin** : Benzenesulfonic Acid, Di-C10-18-Alkyl Derivatives, Calcium Salts:sensitizer

### Mutagenicity

Product/ingredient name	Test	Experiment	Result
Alkyl Amine	487 <i>In vitro</i> Micronucleus Test	Experiment: In vivo  Subject: Mammalian-Animal	Negative

### Carcinogenicity

Product/ingredient name	CAS #	IARC	NTP	OSHA
Benzenesulfonic Acid, Di-C10-18-Alkyl Derivatives, Calcium Salts	93820-57-6	Not classified.	Not classified.	Not classified.
Sodium Petroleum Sulphonates	68608-26-4	Not classified.	Not classified.	Not classified.
Alkyl Amine	68955-53-3	Not classified.	Not classified.	Not classified.

### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Sodium Petroleum Sulphonates	Category 3	Not applicable.	Respiratory tract irritation

### Acute toxicity estimates

Route	ATE value (Acute Toxicity Estimates)
Not available.	

## Section 12. Ecological information

### Toxicity

Product/ingredient name	Test	Result	Species	Exposure
Alkyl Amine	201 Alga, Growth Inhibition Test	Acute EC50 0.435 mg/l	Algae - Selenastrum capricornutum Daphnia Fish - Oncorhynchus mykiss	72 hours
	- 203 Fish, Acute Toxicity Test	Acute EC50 2.5 mg/l Acute EC50 1.3 mg/l		48 hours 96 hours

**Conclusion/Summary** : Not available.

### Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Alkyl Amine	301D Ready Biodegradability - Closed Bottle Test	21.8 % - Not readily - 28 days	-	-

**Conclusion/Summary** : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Alkyl Amine	-	-	Not readily

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Alkyl Amine	2.9	-	low

### Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : 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.

**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

## Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	-	-	-	-		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

**SARA Title III Section 302 Extremely Hazardous Substances** : None

**SARA Title III Section 313 Toxic Chemicals** : None

**US EPA CERCLA Hazardous Substances (40 CFR 302)** : None

### 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.

<u>Ingredient name</u>	<u>CAS number</u>	<u>State Code</u>	<u>Concentration (%)</u>
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	MA - S, NJ - HS	14 - 20%
Benzenesulfonic Acid, Di-C10-18-Alkyl Derivatives, Calcium Salts	93820-57-6		31 - 37%
Calcium lanolate	68424-44-2		23 - 29%
(C16-C22) Alkylcarboxylic acid, calcium salt	68604-59-1		10 - 15%
Fatty acids, coco, 2-ethylhexyl esters	92044-87-6		5 - 10%

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 Control Act** : Listed on the TSCA Inventory. This product contains the following substance that is subject to an export notification under TSCA section 12 (b): CAS 92044-87-6



## Section 16. Other information

### Hazardous Material Information System

Health	2
Flammability	1
Physical hazards	0

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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**Date of previous issue** : No previous validation

**Version** : 1

Product Safety and Regulatory Affairs

Indicates information that has changed from previously issued version.

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