

# SAFETY DATA SHEET



## Section 1. Identification

**Product identifier** : ADDITIN M 41.002  
**Material Number** : 57262083  
**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** : Solid.  
**Color** : Brown. [Light]  
**Classification of the substance or mixture** : SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3  
Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 65%

**Hazard pictograms** :



**Signal word** : Warning  
**Hazard statements** : May cause respiratory irritation.  
**Hazard Not Otherwise Classified (HNOC)** : None known.

### Precautionary statements

**Prevention** : Use only in a well-ventilated area. Avoid breathing dust.  
**Response** : Get medical attention if you feel unwell. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
**Storage** : Store locked up.  
**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
Distillates (petroleum), hydrotreated heavy naphthenic	32 - 38%	64742-52-5

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 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** : 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 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** : No known significant effects or critical hazards.
- Inhalation** : Due to the physical form of the product, inhalation is unlikely. May cause respiratory irritation.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

### Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : May cause respiratory tract irritation with symptoms of coughing, sore throat and runny nose.
- Skin contact** : No specific data.
- Ingestion** : No specific data.

### 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** : Do not use water jet.

**Specific hazards arising from the chemical** : No specific fire or explosion hazard.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
Carbon monoxide.

## Section 5. Fire-fighting measures

**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. 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** : Move containers from spill area. Approach release from upwind. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. 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. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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

Ingredient name	Exposure limits
Distillates (petroleum), hydrotreated heavy naphthenic	<b>ACGIH TLV (United States, 4/2014).</b> TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction <b>OSHA PEL (United States, 2/2013).</b> TWA: 5 mg/m <sup>3</sup> 8 hours.

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.

## Section 8. Exposure controls/personal protection

**Appropriate engineering controls** : Use only with adequate ventilation. 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.

### 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.

**Skin protection** : Wear suitable protective clothing and gloves. Suitable protective footwear.

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

**Medical Surveillance** : Not available.

## Section 9. Physical and chemical properties

**Physical state** : Solid. [waxy-like appearance]

**Color** : Brown. [Light]

**Odor** : Mild.

**Odor threshold** : Not available.

**pH** : Not available.

**Boiling point** : Not available.

**Melting point** : 35°C (95°F)

**Flash point** : Open cup: >170°C (>338°F)

**Evaporation rate** : Not available.

**Explosion limits** : Not available.

**Vapor pressure** : Not available.

**Specific gravity (Relative density)** : 0.98

**Solubility** : Insoluble in the following materials: cold water

**Partition coefficient: n-octanol/water** : Not available.

**Vapor density** : Not available.

**Viscosity** : Kinematic: 0.035 cm<sup>2</sup>/s

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

**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** : oxidizing agents

**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.

### Potential acute health effects

**Eye contact** : No known significant effects or critical hazards.  
**Inhalation** : Due to the physical form of the product, inhalation is unlikely. May cause respiratory irritation.  
**Skin contact** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.

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

**Eye contact** : No specific data.  
**Inhalation** : May cause respiratory tract irritation with symptoms of coughing, sore throat and runny nose.  
**Skin contact** : No specific data.  
**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** : 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
Distillates (petroleum), hydrotreated heavy naphthenic	LD50 Oral	Rat	>5000 mg/kg	-	-
Distillates (petroleum), hydrotreated heavy naphthenic	LD50 Dermal	Rabbit	>5000 mg/kg	-	-
Distillates (petroleum), hydrotreated heavy naphthenic	LC50 Inhalation Dusts and mists	Rat	>5.53 mg/l	4 hours	-

#### Irritation/Corrosion

##### Conclusion/Summary

**Skin** : Distillates (petroleum), hydrotreated heavy naphthenic:Non-irritating  
**Eyes** : Distillates (petroleum), hydrotreated heavy naphthenic:Slight irritant tested on rabbit eyes

#### Sensitization

## Section 11. Toxicological information

Product/ingredient name	Route of exposure	Species	Result
Distillates (petroleum), hydrotreated heavy naphthenic	skin	Guinea pig	Not sensitizing

### Carcinogenicity

Product/ingredient name	CAS #	IARC	NTP	OSHA
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	Not classified.	Not classified.	Not classified.

### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Distillates (petroleum), hydrotreated heavy naphthenic	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
Distillates (petroleum), hydrotreated heavy naphthenic	-	Acute EC50 >1000 mg/l	Daphnia - Daphnia magna	48 hours
	-	Acute IC50 >1000 mg/l	Bacteria - Scenedesmus subspicatus	96 hours
	-	Acute LC50 >5000 mg/l	Fish - Oncorhynchus mykiss	96 hours

**Conclusion/Summary** : Not available.

### Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Distillates (petroleum), hydrotreated heavy naphthenic	OECD 301F Ready Biodegradability - Manometric Respirometry Test	31 % - Inherent - 28 days	44 mg/l	-

**Conclusion/Summary** : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Distillates (petroleum), hydrotreated heavy naphthenic	-	-	Inherent

### Bioaccumulative potential

Not available.

### Mobility in soil

## Section 12. Ecological information

Soil/water partition coefficient ( $K_{oc}$ ) : 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

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 : None

Extremely Hazardous Substances

	<u>Ingredient name</u>	<u>CAS number</u>	<u>Concentration (%)</u>
SARA Title III Section 313 Toxic Chemicals	BENZENESULFONIC ACID, MONO-C16-24-ALKYL DERIVS., BARIUM SALTS, OVERBASED	70024-68-9	17 - 23%
	Barium Sulfonate	66455-19-4	17 - 23%

US EPA CERCLA : None

Hazardous Substances (40 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.

<u>Ingredient name</u>	<u>CAS number</u>	<u>State Code</u>	<u>Concentration (%)</u>
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## Section 15. Regulatory information

BENZENESULFONIC ACID, MONO-C16-24-ALKYL DERIVS., BARIUM SALTS, OVERBASED	70024-68-9	NJ - HS, PA - RTK HS	17 - 23%
Barium Sulfonate	66455-19-4	NJ - HS, PA - RTK HS	17 - 23%
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	PA - RTK HS	32 - 38%
Proprietary Non-Hazardous Ingredients			22 - 28%

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.

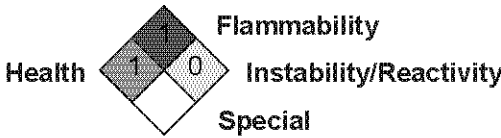
## Section 16. Other information

<b>Hazardous Material Information System</b>	Health	1
	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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 Product Safety and Regulatory Affairs

▣ Indicates information that has changed from previously issued version.

**Notice to reader**



## **Section 16. Other information**

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