

Section 1. Identification

Product identifier : ADDITIN RC 7001
Material Number : 05217148
Chemical name : Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene
Identified uses : Manufacture of lubricants.
Supplier/Manufacturer : LANXESS Corporation
Rhein Chemie Additives
111 RIDC Park West Drive
Pittsburgh, PA 15275-1112
USA

For information: US/Canada (800) LANXESS
International +1 412 809 1000

In case of emergency : Chemtrec (800) 424-9300
International (703) 527-3887
Lanxess Emergency Phone (800) 410-3063.

Section 2. Hazards identification

HAZCOM Standard Status : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), the SDS contains valuable information critical to the safe handling and proper use of the product. The SDS should be retained and available for employees and other users of this product.

Physical state : Solid.
Color : Brown.
Classification of the substance or mixture : Not classified.
Signal word : No signal word.
Hazard statements : No known significant effects or critical hazards.
Hazard Not Otherwise Classified (HNOC) : None known.
Precautionary statements
Prevention : Not applicable.
Response : Not applicable.
Storage : Not applicable.
Disposal : Not applicable.
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 : Substance
Chemical name : Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene
CAS number : 68411-46-1

Ingredient name	%	CAS number
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	100	68411-46-1

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

Section 3. Composition/information on ingredients

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 symptoms occur.
- Skin contact** : Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- 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. Get medical attention if symptoms occur.

Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- 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** : No specific data.
- 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** : None known.

Specific hazards arising from the chemical : In the event of fire be aware of formation of noxious fumes.

Hazardous thermal decomposition products : Decomposition products may include the following materials: nitrogen 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.

Section 5. Fire-fighting measures

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. 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. Vacuum or sweep up material and place in a designated, 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 : 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 or liners may retain some product residues.

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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory protection : In the case of respirable dust, use self-contained breathing apparatus. Although no exposure limit has been established for this product, the OSHA PEL for Particulates Not Otherwise Regulated (PNOR) of 15 mg/m³ - total dust, 5 mg/m³ - respirable fraction is recommended. In addition, the ACGIH recommends 3 mg/m³ - respirable particles and 10 mg/m³ - inhalable particles for Particles (insoluble or poorly soluble) Not Otherwise Specified (PNOS).

Skin protection : Permeation resistant gloves.

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. [Granular solid.]
Color	: Brown.
Odor	: Characteristic.
Odor threshold	: Not available.
pH	: Not available.
Boiling point	: Not available.
Melting point	: 85°C (185°F)
Flash point	: Closed cup: 257°C (494,6°F)
Evaporation rate	: Not available.
Explosion limits	: Not available.
Vapor pressure	: Not available.
Density	: 0,99 g/cm ³
Specific gravity (Relative density)	: Not available.
Solubility	: 0,00041 g/l (water)
Solubility	: Very slightly soluble in the following materials: cold water
Partition coefficient: n-octanol/water	: 4,64 (calculated)
Vapor density	: Not available.
Viscosity	: Not available.
Ignition temperature	: 490°C
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	: 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. Inhalation.
<u>Potential acute health effects</u>	
Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
<u>Symptoms related to the physical, chemical and toxicological characteristics</u>	
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.
<u>Potential chronic health effects</u>	
<u>Short term exposure</u>	

Section 11. Toxicological information

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
Benzenamine, N-phenyl-, reaction products with 2,4, 4-trimethylpentene	LD50 Oral	Rat	>5000 mg/kg	-	-
Benzenamine, N-phenyl-, reaction products with 2,4, 4-trimethylpentene	LD50 Dermal	Rat	>2000 mg/kg	-	-

Conclusion/Summary : Dosage caused no mortality

Irritation/Corrosion

Conclusion/Summary

Skin : Non-irritating (Rabbit)

Eyes : Slight irritant (Rabbit)

Sensitization

Product/ingredient name	Route of exposure	Species	Result
Benzenamine, N-phenyl-, reaction products with 2,4, 4-trimethylpentene	skin	Guinea pig	Not sensitizing

Skin : Not sensitizing

Mutagenicity

Product/ingredient name	Test	Experiment	Result
Benzenamine, N-phenyl-, reaction products with 2,4, 4-trimethylpentene	-	Experiment: In vitro Subject: Bacteria	Negative

Carcinogenicity

Product/ingredient name	CAS #	IARC	NTP	OSHA
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	68411-46-1	Not classified.	Not classified.	Not classified.

Section 12. Ecological information

Toxicity

Section 12. Ecological information

Product/ingredient name	Test	Result	Species	Exposure
Benzenamine, N-phenyl-, reaction products with 2,4, 4-trimethylpentene	-	Acute EC50 51 mg/l	Daphnia - Daphnia magna	48 hours
	OECD 203	Acute LC50 >71 mg/l	Fish - Danio rerio	96 hours

Conclusion/Summary : Not available.

Persistence and degradability

Conclusion/Summary : Not readily biodegradable.

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Additin RC 7001	4.64	-	high

Mobility in soil

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. 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 : None

SARA Title III Section 302 Extremely Hazardous Substances : None

SARA Title III Section 313 Toxic Chemicals : None

Section 15. Regulatory information

US EPA CERCLA : None

Hazardous Substances (40 CFR 302.4)

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>
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	68411-46-1		100
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

Hazardous Material Information System

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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Section 16. Other information

Product Safety and Regulatory Affairs

✔ Indicates information that has changed from previously issued version.

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