# **SAFETY DATA SHEET**



### **Section 1. Identification**

Product identifier	: ADDITIN RC 7010	
Material Number	: 05821355	
Chemical name	: 2,2,4-Trimethyl-1,2-dihydroquinoline, polymerised	
Identified uses	: Additive for 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	: yellow to 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) <u>Precautionary statements</u>	: None known.
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	: 2,2,4-Trimethyl-1,2-dihydroquinoline, polymerised
CAS number	: 26780-96-1
<b>-</b> , , , , ,	

There are no 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	<ul> <li>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.</li> </ul>
Inhalation	<ul> <li>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. 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.</li> </ul>
Skin contact	<ul> <li>Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</li> </ul>
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 effect	<u>s</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.	
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 effe	ects	

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

Extinguiorning mound	
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. In the event of fire be aware of formation of noxious fumes. This material increases the risk of fire and may aid combustion.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
Special protective actions for fire-fighters	<ul> <li>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.</li> </ul>
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	<ul> <li>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.</li> </ul>
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. [Granular solid.]
Color	: yellow to brown
Odor	: Inherent [Slight]
Odor threshold	: Not available.
рН	: Not available.
Boiling point	: Not available.
Melting point	: 90°C (194°F)

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# Section 9. Physical and chemical properties

Flash point	osed cup: 180°C (356°F)	
Evaporation rate	ot available.	
Explosion limits	ot available.	
Risk of dust explosion	ass of dust explosion St 2: great danger of dust explo	sion, Geigy test
Vapor pressure	.0001 hPa (25℃)	
Density	04 g/cm <sup>3</sup>	
Specific gravity (Relative density)	ot available.	
Solubility	D24 g/l (water)	
Solubility	soluble in the following materials: cold water	
Partition coefficient: n-	3	
octanol/water		
Vapor density	ot available.	
Viscosity	ot available.	
Ignition temperature	O°00	
Auto-ignition temperature	ot available.	
Decomposition temperature	280°C	

# Section 10. Stability and reactivity

Reactivity Chemical stability	<ul> <li>No specific test data related to reactivity available for this product or its ingredients.</li> <li>The product is stable.</li> </ul>
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 Hazardous decomposition products	<ul> <li>oxidizing agents</li> <li>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</li> </ul>

# Section 11. Toxicological information

Information on the likely routes of exposure	:	Dermal contact. Eye contact. Inhalation. Ingestion.
Potential acute health effect	<u>s</u>	
Eye contact	1	No known significant effects or critical hazards.
Inhalation	1	No known significant effects or critical hazards.
Skin contact	1	No known significant effects or critical hazards.
Ingestion	1	No known significant effects or critical hazards.
Symptoms related to the phy	/sic	cal, chemical and toxicological characteristics
Eye contact	:	No specific data.
Inhalation	:	No specific data.
Skin contact	:	No specific data.
Ingestion	:	No specific data.
Potential chronic health effe	<u>cts</u>	
<u>Short term exposure</u>		
Potential immediate	1	Not available.
effects		
<u>Long term exposure</u>		
Potential delayed effects	1	Not available.
General	:	No known significant effects or critical hazards.
Carcinogenicity	:	No known significant effects or critical hazards.

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# Section 11. Toxicological information

- Mutagenicity
- : No known significant effects or critical hazards.

Teratogenicity Developmental effects

- : No known significant effects or critical hazards.
- Fertility effects
- : No known significant effects or critical hazards.
- : No known significant effects or critical hazards.

#### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure	Test
Trimethyldihydroquinoline, Polymerized	LD50 Oral	Rat - Male, Female	3190 mg/kg	-	-
Trimethyldihydroquinoline, Polymerized	LD50 Dermal	Rabbit - Male, Female	>5100 mg/kg	-	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation	Reversibility
Trimethyldihydroquinoline, Polymerized	Eyes - Cornea opacity	Rabbit	0	-	-	Fully reversible
,	Eyes - Iris lesion	Rabbit	0	-	-	Fully reversible
	Skin - Erythema/Eschar	Rabbit	0	-	-	Fully reversible
	Skin - Edema	Rabbit	0	-	-	Fully reversible
	Eyes - Redness of the conjunctivae	Rabbit	0	-	48 hours	Fully reversible

#### **Conclusion/Summary**

: Trimethyldihydroquinoline, Polymerized:Non-irritating

#### Eyes

Skin

: Trimethyldihydroquinoline, Polymerized:Non-irritating

#### **Sensitization**

Product/ingredient name	Route of exposure	Species	Result
Trimethyldihydroquinoline, Polymerized	skin	Guinea pig	Not sensitizing
Chronic toxicity	·	·	·

Product/ingredient name	Result	Species	Dose	Exposure
Trimethyldihydroquinoline, Polymerized			11.8 mg/kg bw/ day	2 years; daily

Mutagenicity						
Product/ingredient name	Test	Experiment	Result			
Trimethyldihydroquinoline, Polymerized	Bacterial - gene mutation assay	Experiment: In vivo	Negative			
5	,	Subject: Bacteria				

#### **Carcinogenicity**

Product/ingredient name	Result			Species		Dose	Exposure
Trimethyldihydroquinoline, Polymerized	Negative	- Oral - NOAEL		Rat - Male, Female		15.3 mg/kg bw/ day	2 years; daily
Product/ingredient name		CAS #	IA	RC	N	TP	OSHA
Trimethyldihydroquinoline, Poly	merized	26780-96-1	No	t classified.	N	ot classified.	Not classified.

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### Section 11. Toxicological information

### Reproductive toxicity

Product/ingredient name	Effects	Species	Dose	Exposure
Trimethyldihydroquinoline, Polymerized		Rat	Oral: 120 mg/kg bw/ day	15 days; daily

# Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Test	Result	Species	Exposure
Trimethyldihydroquinoline, Polymerized	OECD 209 Activated Sludge, Respiration Inhibition Test	Acute EC50 >10000 mg/l	Micro-organism - activated sludge	3 hours
	EU C.3	Acute EL0 >100 mg/l WAF	Algae - Desmodesmus subspicatus	72 hours
	EU C.2 (Acute Toxicity for Daphnia)	Acute EL50 56 mg/l WAF	Daphnia - Daphnia magna	48 hours
	EU C.1	Acute LL0 >100 mg/I WAF	Fish - Danio rerio	96 hours

**Conclusion/Summary** : Not available.

#### Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Trimethyldihydroquinoline, Polymerized	EU C.4-E (Determination of the"Ready" Biodegradability - Closed Bottle Test) Closed bottle test.	0 % - Not readily - 28 days	-	-

**Conclusion/Summary** : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Trimethyldihydroquinoline,	-	-	Not readily
Polymerized			

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
2,2,4-Trimethyl-1, 2-dihydroquinoline, polymerised Trimethyldihydroquinoline, Polymerized	5.8 5.8	- 108 to 13000	high high

Mobility in soil

: Not available.

Other adverse effects

coefficient (Koc)

Soil/water partition

: 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	:	None
Substances		
SARA Title III Section 313 Toxic Chemicals	:	None
US EPA CERCLA Hazardous Subtances (40 CFR 302.4)	:	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.

Ingredient name	<u>CAS number</u>	State Code	<u>Concentration</u>		
			<u>(%)</u>		
Trimethyldihydroquinoline, Polymerized	26780-96-1		>95		
2,2,4-Trimethyl-1,2-dihydroquinoline	147-47-7		<5		
Monomer					
Massachusetts Substances: MA - S					
Massachusetts Extraordinary Hazardous Substances: MA - Extra HS					
New Jersey Hazardous Substances: NJ	- HS				
Pennsylvania RTK Hazardous Substance	es: PA - RTK HS				
Pennsylvania Special Hazardous Substa	nces: PA - Special HS	6			

#### 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	:	Health	1
		Flammability	1
		Physical hazards	0

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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 issue	: 08-25-2015
Date of previous issue	: 07-23-2015
Version	: 2.01
	Product Safety and Regulatory Affairs

✓ Indicates information that has changed from previously issued version.

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