

# SAFETY DATA SHEET

## ADDITIN M 10.456



Version 1.0	Revision Date: 10/27/2020	SDS Number: 203000012854	Date of last issue: - Country / Language: US / EN
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### SECTION 1. IDENTIFICATION

Product name : ADDITIN M 10.456

Product code : 000000000056559152

#### Manufacturer or supplier's details

Company : LANXESS Corporation  
Product Safety & Regulatory Affairs  
111 RIDC Park West Drive  
15275-1112 Pittsburgh, United States of America

Responsible Department : +1800LANXESS

Emergency telephone : CHEMTREC: +1 (800) 424 9300  
International: +1 (703) 527 3887  
LANXESS Emergency Phone: +1 (866) 673 6350

#### Recommended use of the chemical and restrictions on use

Recommended use : Additive for lubricants

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### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Skin irritation : Category 2

Eye irritation : Category 2A

#### GHS label elements

Hazard pictograms :



Signal Word : Warning

Hazard Statements : Causes skin irritation.  
Causes serious eye irritation.

Precautionary Statements : **Prevention:**  
Wash skin thoroughly after handling.  
Wear protective gloves/ eye protection/ face protection.

**Response:**  
IF ON SKIN: Wash with plenty of soap and water.

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IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
If skin irritation occurs: Get medical advice/ attention.  
If eye irritation persists: Get medical advice/ attention.  
Take off contaminated clothing and wash before reuse.

### Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates	80939-62-4	>= 70 - < 90

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

## SECTION 4. FIRST AID MEASURES

- If inhaled : Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.  
Get medical attention if symptoms occur.
- In case of skin contact : Wash off with soap and plenty of water.  
Remove contaminated clothing and shoes.  
Continue to rinse for at least 20 minutes.  
Wash contaminated clothing before reuse.  
Get medical attention immediately if irritation persists.
- In case of eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.  
Remove contact lenses.  
Continue to rinse for at least 20 minutes.  
Call a physician.
- If swallowed : Rinse mouth with water.  
Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
Do not induce vomiting. Drink water. Call physician immediately.  
If vomiting occurs, the head should be kept low so that vomit

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does not enter the lungs.  
If unconscious, place in recovery position and get medical attention immediately.  
Maintain open airway.  
Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms and effects, both acute and delayed

Symptoms	:	Eye: Causes irritation with symptoms of reddening, tearing, stinging, and swelling. Skin: Causes irritation with symptoms of reddening, itching, and swelling.
Effects	:	Causes skin irritation. Causes serious eye irritation.
Protection of first-aiders	:	If potential for exposure exists refer to Section 8 for specific personal protective equipment.
Notes to physician	:	Treat symptomatically.

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## SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. In case of fire, use water spray (fog), foam or dry chemical.
Specific hazards during fire fighting	:	In a fire or if heated, a pressure increase will occur and the container may burst. Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	:	Carbon dioxide (CO <sub>2</sub> ) Carbon monoxide Nitrogen oxides (NO <sub>x</sub> ) phosphorus oxide (P <sub>2</sub> O <sub>5</sub> )
Further information	:	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.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency measures	:	No action shall be taken involving any personal risk or without suitable training.
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| gency procedures                                      | : | Evacuate personnel to safe areas.<br>Do not touch or walk through spilled material.<br>Use personal protective equipment.<br>Put on appropriate personal protection equipment.  |
| Environmental precautions                             | : | Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.<br>Local authorities should be advised if significant spillages cannot be contained.  |
| Methods and materials for containment and cleaning up | : | Stop leak if safe to do so.<br>Move containers from spill area.<br>Wash spillages into an effluent treatment plant or proceed as follows.<br>Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).<br>Dispose of wastes in an approved waste disposal facility.<br>Do not allow spilled material or wash water to enter sewers, surface waters, or groundwater systems. |
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### SECTION 7. HANDLING AND STORAGE

- |  |   |  |
|--|---|--|
| Advice on safe handling                  | : | Do not breathe vapors/dust.<br>Avoid contact with skin and eyes.<br>For personal protection see section 8.<br>Smoking, eating and drinking should be prohibited in the application area.<br>Dispose of rinse water in accordance with local and national regulations.  |
| Conditions for safe storage              | : | Store in accordance with local regulations.<br>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.<br>Keep containers sealed until ready for use.<br>Containers which are opened must be carefully resealed and kept upright to prevent leakage.<br>Do not store in unlabeled containers.<br>Use appropriate container to avoid environmental contamination. |
| Further information on storage stability | : | No decomposition if stored and applied as directed.  |

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### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

**Engineering measures** : 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 protective equipment

**Respiratory protection** : When using this product at elevated temperatures, wear a respirator with a vapor filter (see section 8).  
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.

#### Hand protection

**Material** : PVC or other plastic material gloves  
**Wearing time** : < 60 min

**Remarks** : Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

**Eye protection** : Wear safety glasses with side shields or goggles.  
Faceshield may be necessary in operations with splash potential but cannot be used in place of chemical safety goggles.

**Skin and body protection** : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

**Hygiene measures** : When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** : liquid

**Color** : yellow

**Odor** : characteristic

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Odor Threshold	:	No data available
pH	:	Not applicable
Melting point/range	:	23 °F / -5 °C
Boiling point/boiling range	:	No data available
Flash point	:	309 °F / 154 °C
		Method: closed cup
Evaporation rate	:	No data available
Self-ignition	:	No data available
Burning number	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative density	:	No data available
Density	:	0.957 g/cm <sup>3</sup> (68 °F / 20 °C)
Solubility(ies)		
Water solubility	:	slightly soluble
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	1220 mm <sup>2</sup> /s (104 °F / 40 °C)
Explosive properties	:	No data available
Oxidizing properties	:	No data available

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### SECTION 10. STABILITY AND REACTIVITY

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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	: No decomposition if stored and applied as directed.

### SECTION 11. TOXICOLOGICAL INFORMATION

The most important known symptoms and effects are described in Section 2 and/or Section 4.

#### Information on likely routes of exposure

Inhalation  
Eye contact  
Skin contact  
Ingestion

#### Acute toxicity

Not classified based on available information.

#### Components:

##### Amines, C11-14-branched alkyl, monoethyl and diethyl phosphates:

Acute oral toxicity	: LD50 (Rat): > 5,000 mg/kg
Acute dermal toxicity	: LD50 (Rat): > 5,000 mg/kg GLP: yes Remarks: Extrapolation according to Regulation (EC) No. 440/2008

#### Skin corrosion/irritation

Causes skin irritation.

#### Components:

##### Amines, C11-14-branched alkyl, monoethyl and diethyl phosphates:

Species	: Rabbit
Method	: OECD Test Guideline 404
Result	: Irritating to skin.

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### Serious eye damage/eye irritation

Causes serious eye irritation.

#### Components:

#### Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates:

Species	:	Rabbit
Result	:	Irritating to eyes.
Method	:	OECD Test Guideline 405

### Respiratory or skin sensitization

#### Skin sensitization

Not classified based on available information.

#### Respiratory sensitization

Not classified based on available information.

#### Components:

#### Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates:

Routes of exposure	:	Skin contact
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	Did not cause sensitization on laboratory animals.

### Germ cell mutagenicity

Not classified based on available information.

#### Components:

#### Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates:

Genotoxicity in vitro	:	Test system: Bacteria
		Metabolic activation: with and without metabolic activation
		Method: OECD Test Guideline 471
		Result: negative

		Test system: Mammalian-Animal
		Metabolic activation: with and without metabolic activation
		Method: OECD Test Guideline 476
		Result: negative

		Test system: Mammalian-Animal
		Metabolic activation: with and without metabolic activation
		Method: OECD Test Guideline 473
		Result: negative

### Carcinogenicity

Not classified based on available information.

**IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.



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**OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### Reproductive toxicity

Not classified based on available information.

### Components:

#### Amines, C11-14-branched alkyl, monoethyl and diethyl phosphates:

Effects on fertility : Species: Rat, male and female  
Application Route: Oral  
Early Embryonic Development: NOAEL: 10 mg/kg body weight  
Symptoms: No effects on early embryonic development.  
Method: OECD Test Guideline 422

### STOT-single exposure

Not classified based on available information.

### STOT-repeated exposure

Not classified based on available information.

### Aspiration toxicity

Not classified based on available information.

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

### Components:

#### Amines, C11-14-branched alkyl, monoethyl and diethyl phosphates:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 5.5 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.2 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (microalgae)): > 10 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

EC50 (Pseudokirchneriella subcapitata (algae)): > 10  
Exposure time: 72 h

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Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (activated sludge): > 100 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

### Persistence and degradability

#### Components:

##### **Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates:**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 12 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

### Bioaccumulative potential

No data available

### Mobility in soil

No data available

### Other adverse effects

No data available

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## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

RCRA - Resource Conservation and Recovery Authorization Act : 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)

Waste from residues : 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 retain product residue; observe all precautions for product.  
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.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

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### SECTION 14. TRANSPORT INFORMATION

#### International Regulations

##### IATA-DGR

UN/ID No.	: UN 3082
Proper shipping name	: Environmentally hazardous substance, liquid, n.o.s. (AMINES, C11-14-BRANCHED ALKYL, MONOHEXYL AND DIHEXYL PHOSPHATES)
Class	: 9
Packing group	: III
Labels	: 9
	:



Packing instruction (cargo aircraft)	: 964 : 450.00 L
Packing instruction (passenger aircraft)	: 964 : 450.00 L
Environmentally hazardous	: yes



##### IMDG-Code

UN number	: UN 3082
Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (AMINES, C11-14-BRANCHED ALKYL, MONOHEXYL AND DIHEXYL PHOSPHATES)
Class	: 9
Packing group	: III
Labels	: 9
	:



EmS Code	: F-A, S-F
Marine pollutant	: yes



#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

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### Domestic regulation

#### 49 CFR

UN/ID/NA number	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s. (AMINES, C11-14-BRANCHED ALKYL, MONOHEXYL AND DIHEXYL PHOSPHATES)
Class	:	9
Packing group	:	III
Labels	:	9
	:	



ERG Code	:	171
Marine pollutant	:	yes



The U.S. DOT regulations in 49 CFR 172.102 permit this material to ship as an Environmentally Hazardous Substance, Class 9, using Special Provision 146.

Hazard and Handling Notes. : Environmentally hazardous substance., Irritating to skin and eyes., Keep away from foodstuffs, acids and alkalis

### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## SECTION 15. REGULATORY INFORMATION

### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

<b>SARA 311/312 Hazards</b>	:	Skin corrosion or irritation Serious eye damage or eye irritation
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<b>SARA 313</b>	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
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### US State Regulations

#### Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

#### Pennsylvania Right To Know

Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates	80939-62-4	>= 70 - < 90
Proprietary thiadiazole derivative	Trade Secret	>= 10 - < 20

#### California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

#### TSCA inventory

TSCA : All substances listed as active on the TSCA inventory

#### TSCA list

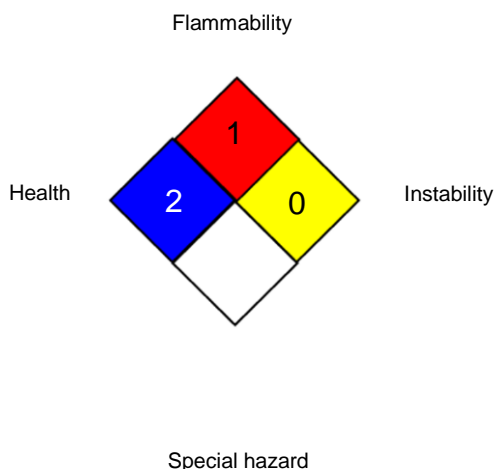
No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

## SECTION 16. OTHER INFORMATION

### Further information

#### NFPA 704:



#### HMIS® IV:

HEALTH	/	2
FLAMMABILITY		1
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

### Full text of other abbreviations

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AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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The data contained in this Safety Data Sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered to be a guidance for processing and does not contain any warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. It is the responsibility of the recipient of the product to ensure that any proprietary rights and existing laws and legislation are observed.