

SAFETY DATA SHEET

ADDITIN M 10.229



Version 2.0 Revision Date: 12/05/2020 SDS Number: 103000010530 Date of previous issue: 11/29/2017
Country / Language: US / EN

SECTION 1. IDENTIFICATION

Product name : ADDITIN M 10.229
Material number : 57817988
Recommended use : Additive for lubricants

Manufacturer or supplier's details

Supplier : LANXESS Corporation
Product Safety & Regulatory Affairs
111 RIDC Park West Drive
PittsburghPA 15275-1112
USA
Telephone : +1800LANXESS
+14128091000 (international)
Emergency telephone : CHEMTREC (800) 424 9300
International (703) 527 3887
Lanxess Emergency Phone (800) 410-3063

SECTION 2. HAZARDS IDENTIFICATION

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

Skin irritation : Category 2

GHS label elements

Hazard pictograms :



Signal Word : Warning

Hazard Statements : Causes skin irritation.

Precautionary Statements :

Prevention:

Wash skin thoroughly after handling.
Wear protective gloves.

Response:

IF ON SKIN: Wash with plenty of soap and water.
If skin irritation occurs: Get medical advice/ attention.
Take off contaminated clothing and wash before reuse.

SAFETY DATA SHEET

ADDITIN M 10.229



Version 2.0 Revision Date: 12/05/2020 SDS Number: 103000010530 Date of previous issue: 11/29/2017
Country / Language: US / EN

Hazard Not Otherwise Classified (HNOC)

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous ingredients

| Chemical name | CAS-No. | Concentration (% w/w) |
|---|------------|-----------------------|
| oleic acid, compound with (Z)-octadec-9-enylamine (1:1) | 28065-97-6 | >= 50 - < 70 |

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

SECTION 4. FIRST AID MEASURES

- If inhaled : Get medical attention if symptoms occur.
Remove victim to fresh air and keep at rest in a position comfortable for breathing.
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.
- In case of skin contact : Get medical attention.
Wash off with plenty of water.
Continue to rinse for at least 10 minutes.
Wash contaminated clothing before re-use.
- In case of eye contact : Get medical attention if symptoms appear.
Immediately flush eye(s) with plenty of water.
Remove contact lenses, if present and easy to do. Continue rinsing.
- If swallowed : Get medical attention.
Rinse mouth with water.
Do not induce vomiting unless directed to do by medical personnel.
If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.

Most important symptoms and effects, both acute and delayed

- Symptoms : Skin: Causes irritation with symptoms of reddening, itching, and swelling.
- Effects : Causes skin irritation.
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SAFETY DATA SHEET

ADDITIN M 10.229



Version Revision Date: SDS Number: Date of previous issue: 11/29/2017
2.0 12/05/2020 103000010530 Country / Language: US / EN

SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : In case of fire, use water spray (fog), foam or dry chemical.
- Unsuitable extinguishing media : Do not use water jet.
- Specific hazards during fire fighting : In a fire or if heated, a pressure increase will occur and the container may burst.
Cool closed containers exposed to fire with water spray.
Vapors may form explosive mixtures with air.
- Hazardous combustion products : Carbon dioxide (CO₂)
Carbon monoxide
Nitrogen oxides (NO_x)
- 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 procedures : No action shall be taken involving any personal risk or without suitable training.
Evacuate personnel to safe areas.
Keep unnecessary and unprotected personnel from entering.
Do not touch or walk through spilled material.
Put on appropriate personal protection equipment.
- Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Stop leak if safe to do so.
Move containers from spill area.
Wash spillages into an effluent treatment plant or proceed as follows.
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).
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SAFETY DATA SHEET

ADDITIN M 10.229



| | | | |
|---------|----------------|--------------|------------------------------------|
| Version | Revision Date: | SDS Number: | Date of previous issue: 11/29/2017 |
| 2.0 | 12/05/2020 | 103000010530 | Country / Language: US / EN |

Dispose of wastes in an approved waste disposal facility.
Do not allow spilled material or wash water to enter sewers,
surface waters, or groundwater systems.

SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : 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 containers sealed until ready for use.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Do not store in unlabeled containers.
Use appropriate container to avoid environmental contamination.
Empty containers retain residue and can be dangerous.
- Further information on storage stability : No decomposition if stored and applied as directed.
-

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

- Engineering measures** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protective equipment

- 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.

Hand protection

- Material : Nitrile rubber
Wearing time : < 60 min
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SAFETY DATA SHEET

ADDITIN M 10.229



Version 2.0 Revision Date: 12/05/2020 SDS Number: 103000010530 Date of previous issue: 11/29/2017
Country / Language: US / EN

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

Eye protection : Safety glasses with side-shields

Skin and body protection : Wear work clothing including long pants and long-sleeve shirts.

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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid

Color : brown

Odor : characteristic

Odor Threshold : No data available

pH : Not applicable

Melting point/freezing point : No data available

Boiling point/boiling range : No data available

Flash point : 392 °F (200 °C)
Method: DIN ISO 2592, open cup

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit : No data available

Vapor pressure : No data available

Relative vapor density : No data available

SAFETY DATA SHEET

ADDITIN M 10.229



| | | | |
|---------|----------------|--------------|------------------------------------|
| Version | Revision Date: | SDS Number: | Date of previous issue: 11/29/2017 |
| 2.0 | 12/05/2020 | 103000010530 | Country / Language: US / EN |

| | | |
|--|---|--|
| Relative density | : | No data available |
| Density | : | 0.88 g/cm ³ (68 °F (20 °C)) |
| Solubility(ies) Water solubility | : | slightly soluble |
| Partition coefficient: n-octanol/water | : | No data available |
| Ignition temperature | : | No data available |
| Decomposition temperature | : | No data available |
| Viscosity Viscosity, kinematic | : | 90 cSt (104 °F (40 °C)) |
| Explosive properties | : | No data available |
| Oxidizing properties | : | No data 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 chemically 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.

Acute toxicity

Not classified based on available information.

SAFETY DATA SHEET

ADDITIN M 10.229



Version 2.0 Revision Date: 12/05/2020 SDS Number: 103000010530 Date of previous issue: 11/29/2017
Country / Language: US / EN

Product:

Acute oral toxicity : Acute toxicity estimate: 3,333 mg/kg
Method: Calculation method

Components:

oleic acid, compound with (Z)-octadec-9-enylamine (1:1):

Acute oral toxicity : LD50 (Rat, female): > 2,000 mg/kg
Remarks: No mortality observed at this dose.

Skin corrosion/irritation

Causes skin irritation.

Components:

oleic acid, compound with (Z)-octadec-9-enylamine (1:1):

Result: Irritating to skin.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

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.

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.

SAFETY DATA SHEET

ADDITIN M 10.229



Version 2.0 Revision Date: 12/05/2020 SDS Number: 103000010530 Date of previous issue: 11/29/2017
Country / Language: US / EN

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:

oleic acid, compound with (Z)-octadec-9-enylamine (1:1):

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna Straus (Water flea)): 78 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
GLP: yes
Remarks: water extractable fraction

NOAEL (No observed adverse effect level) (Daphnia magna Straus (Water flea)): 20 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
GLP: yes
Remarks: water extractable fraction

Toxicity to algae : EL50 (algae): 0.658 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
GLP: yes
Remarks: water extractable fraction

NOAEL (No observed adverse effect level) (algae): 0.2 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
GLP: yes
Remarks: water extractable fraction

EL50 (algae): 0.076 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
GLP: yes
Remarks: Measured value

NOAEL (No observed adverse effect level) (algae): 0.04 mg/l
Exposure time: 72 h

SAFETY DATA SHEET

ADDITIN M 10.229



Version 2.0 Revision Date: 12/05/2020 SDS Number: 103000010530 Date of previous issue: 11/29/2017
Country / Language: US / EN

Method: OECD Test Guideline 201
GLP: yes
Remarks: Measured value

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.
Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

Persistence and degradability

Components:

oleic acid, compound with (Z)-octadec-9-enylamine (1:1):

Biodegradability : aerobic
Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: 79 %
Exposure time: 28 d

Bioaccumulative potential

Components:

oleic acid, compound with (Z)-octadec-9-enylamine (1:1):

Partition coefficient: n-octanol/water : log Pow: > 6.5
pH: 5

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

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)

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 retain product residue; observe all precau-

SAFETY DATA SHEET

ADDITIN M 10.229

Version 2.0 Revision Date: 12/05/2020 SDS Number: 103000010530 Date of previous issue: 11/29/2017
Country / Language: US / EN

tions 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.

SECTION 14. TRANSPORT INFORMATION

Domestic regulation

DOT

UN/ID/NA number : UN 3082
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.
(OLEYL AMINE OLEATE)
Class : 9
Packing group : III
Labels : 9
:



Marine pollutant : yes



Further information for transport : 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.

International Regulations

IATA-DGR

UN/ID No. : UN 3082
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.
(OLEYL AMINE OLEATE)
Class : 9
Packing group : III
Labels : 9
:



Packing instruction (cargo) : 964: 450.00 L

SAFETY DATA SHEET

ADDITIN M 10.229



Version Revision Date: SDS Number: Date of previous issue: 11/29/2017
2.0 12/05/2020 103000010530 Country / Language: US / EN

aircraft)
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. (OLEYL AMINE OLEATE)
Class : 9
Packing group : III
Labels : 9



Marine pollutant : yes



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

Not applicable for product as supplied.

SECTION 15. REGULATORY INFORMATION

CERCLA

None

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.

SARA 311/312 Hazards : Skin corrosion or irritation

SARA 313

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.

SAFETY DATA SHEET

ADDITIN M 10.229



Version 2.0 Revision Date: 12/05/2020 SDS Number: 103000010530 Date of previous issue: 11/29/2017
Country / Language: US / EN

US State Regulations

Massachusetts Right To Know

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

Pennsylvania Right To Know

| | | |
|---|------------|---------|
| oleic acid, compound with (Z)-octadec-9-enylamine (1:1) | 28065-97-6 | 50 - 70 |
| Fatty acids, C16-18 and C18-unsatd. | 67701-08-0 | 30 - 50 |

California Prop. 65

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

TSCA inventory

TSCA : On TSCA Inventory

TSCA list

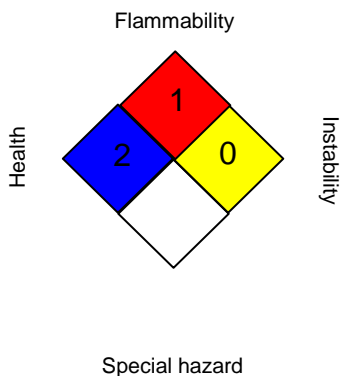
No substances are subject to a Significant New Use Rule.

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

SECTION 16. OTHER INFORMATION

Further information

NFPA:



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.

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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SAFETY DATA SHEET

ADDITIN M 10.229



| | | | |
|---------|----------------|--------------|------------------------------------|
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