

Safety Data Sheet



Trade Name: **AO-259A Antioxidant**

SECTION 1. IDENTIFICATION

Date of issue: **4.20.2018**

Product Name: **AO-259A**

Chemical Name: **Antioxidant**

Other means of identification: **None**

Recommended use of the chemical and restrictions on use:

Recommended use: **Stabilizing additive for urethane polymer production**

Recommended restrictions: **Uses other than as recommended above**

Company Name: Urethane Sciences, LLC

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(Outside of USA 202-366-4488)

SECTION 2: HAZARD(S) IDENTIFICATION

Physical hazards

No physical hazards identified under paragraph (d) of §1910.1200

Health hazards

None identified under OSHA GHS §1910.1200.

Environmental hazards

Not identified under OSHA GHS §1910.1200.

GHS Signal word: None

GHS Hazard statement(s): None

GHS Hazard symbol(s): None

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Precautionary statement(s):

Prevention:

Avoid contact with eyes
Do not eat, drink, or smoke when using this product
Do not swallow
Wash thoroughly after handling

Response:

If swallowed: Rinse mouth. Seek medical attention. Do not induce vomiting unless directed to do so by a physician.
If on skin: Wash thoroughly.
If inhaled: Move person to fresh air. If adverse effects occur, consult a physician.
If in eyes: Wash with large amount of water for at least several minutes. If effects occur, consult a physician.

Disposal:

Dispose of contents/containers to an approved disposal site in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise Classified (HNOC): None known

SECTION 3: Composition/Information on ingredients

Mixture: Stabilizing additive for urethane polymer production

CHEMICAL NAME	CAS #	Concentration (weight %)
Polyether Triol	9082-00-2	50%
Lactone polymer	Proprietary	3-7%
Preparation of phenolic and aromatic compounds	Proprietary	Balance

SECTION 4: FIRST AID MEASURES

Description of necessary measures, subdivided according to the different routes of exposure, i.e., inhalation, skin and eye contact, and ingestion:

Inhalation: Allow victim to breathe fresh air. Allow the victim to rest.

Skin contact: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

Eye contact: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

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Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

Most important symptoms/effects, acute and delayed: Not expected to present a significant hazard under anticipated conditions of normal use.

Indication of immediate medical attention and special treatment needed: No additional information available.

SECTION 5: FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:

Suitable extinguishing media: Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media: Do not use heavy water stream.

Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products):
No additional information available.

Special protective equipment and precautions for fire-fighters: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Evacuate unnecessary personnel. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Environmental Precautions: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. Notify authorities if liquid enters sewers or public waters. See Section 12, Ecological Information.

Methods and materials for containment and cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. See Section 13, Disposal Considerations, for additional information.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION.

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Conditions for safe storage, including any incompatibles: Keep only in the original container in a cool, well ventilated place away from: Ignition sources. Direct sunlight. Strong bases. Strong acids. See Section 10 for more specific information.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits have not been established for the substances listed in the composition

Exposure controls

Engineering controls: General ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

Individual protection measures

Eye/face protection: Chemical goggles or safety glasses.

Skin protection

Hand protection: Wear protective gloves.

NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

Other protection: Do not eat, drink or smoke during use.

Respiratory protection: Wear appropriate mask.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state:	Liquid
Form:	Medium viscosity fluid
Color:	Clear Red
Odor:	Mild - characteristic of product
Odor threshold:	Not available
pH:	Not Available
Melting point/freezing point:	Not available
Initial boiling point and boiling range:	Not available
Flash point:	150 - 260 °C (Open cup)
Evaporation rate:	Not available
Flammability (solid, gas):	Not available
Upper/lower flammability or explosive limits	

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Flammability limit – lower (%):	Not available
Flammability limit – upper (%):	Not available
Explosive limit – lower (%):	Not available
Explosive limit – upper (%):	Not available
Vapor pressure:	0.01 - 3.5 mm Hg (@ 25 Deg. C)
Vapor density:	Not available
Relative density:	0.9 – 1.1
Solubility (ies):	Insoluble in water
Partition coefficient (n-octanol/water):	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity (dynamic):	910 cPs
% Volatile:	Not volatile at or near room temperature

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	Not available.
Chemical stability:	Stable under normal ambient conditions and anticipated conditions of use.
Possibility of hazardous reactions:	Hazardous reactions not anticipated with product alone.
Conditions to avoid:	Direct sunlight. Extremely high or low temperatures
Incompatible materials:	Strong acids. Strong bases.
Hazardous decomposition products:	carbon dioxide, carbon monoxide,

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicological information appears in this section when such data is available.

Acute toxicity: Not classified

Polyether Triol (9082-00-2)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 200 mg/l 1 hr

Skin corrosion/irritation : Not classified
(pH near neutral in isopropanol / water mixture)

Serious eye damage/irritation : Not classified
(pH near neutral in isopropanol / water mixture)

Respiratory or skin sensitization : Not classified

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Germ cell mutagenicity :	Not classified
Carcinogenicity :	Not classified
Reproductive toxicity :	Not classified
Specific target organ toxicity: (single exposure)	Not classified
Specific target organ toxicity: (repeated exposure)	Not classified
Aspiration hazard :	Not classified
Potential Adverse human health effects and symptoms:	Based on available data, the classification criteria are not met.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicological information appears in this section when such data is available.

Toxicity

Acute toxicity to fish

(LC50 fish 1 >100 mg/L in the most sensitive species tested).

Persistence and degradability

Biodegradability: Not established

Bioaccumulative potential

Bioaccumulation: Not established

Mobility in soil

No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal methods: Dispose in a safe manner in accordance with local/national regulations. Avoid release to the environment.

SECTION 14: Transport Information

US Department of Transportation Classification (49CFR)

Not regulated for transport

Maritime transport IMDG

Not regulated for transport.

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

No further relevant information available.

Air transport ICAO-TI and IATA-DGR

Not regulated for transport

Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises.

No data available

SECTION 15: REGULATORY INFORMATION

USA:

United States Federal Regulations: This SDS complies with the OSHA, 29 CFR 1910.1200. The product is not hazardous under OSHA.

Toxic Substances Control Act (TSCA) – All components are on the U.S. EPA TSCA Inventory List.

CERCLA Hazardous Substance List, 40 CFR 302.4:

No components listed

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories:

Immediate Hazard - No

Delayed Hazard - No

Fire Hazard - No

Pressure Hazard - No

Reactivity Hazard – No

Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A): None listed

Section 311 hazardous chemical: None listed

SARA Section 313 (Specific toxic chemical listings): None listed

STATE REGULATIONS:

This SDS contains specific health and safety data is applicable for state requirements. For details on your regulatory requirements, you should contact the appropriate agency in your state.

California Proposition 65 (California Safe Drinking Water and Toxic Enforcement Act of 1986): No components are listed on Prop 65.

SECTION 16: OTHER INFORMATION

Revision Date: 6/16/2020

DISCLAIMER: To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any legal liability for completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.