

NAUGALUBE® 438

Version: 1.2

Revision Date: 12/08/2017

Print Date: 05/22/2018

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: NAUGALUBE® 438

Product Use Description: Antioxidant

Company: LANXESS Solutions US Inc.
199 Benson Road
Middlebury, CT
06749
United States of America (USA)

Telephone: (US) +1 866-430-2775

Emergency telephone number: CHEMTREC: (24 hours) 800-424-9300
:
: US : 800-292-5898 (Technical inquiries)

For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

Prepared by Product Safety Department
(US) +1 866-430-2775

MSDSRequest@chemtura.com

Recommended use of the chemical and restrictions on use

Recommended use : Antioxidant

Restrictions on use : Reserved for industrial and professional use.

SECTION 2. HAZARDS IDENTIFICATION

Form	Wax like Pastilles granules powder or flakes
Colour	light brown
Odour	characteristic

GHS Classification

Acute aquatic toxicity : Category 3
Chronic aquatic toxicity : Category 3

GHS label elements

NAUGALUBE® 438

Version: 1.2

Revision Date: 12/08/2017

Print Date: 05/22/2018

Hazard statements : H412 Harmful to aquatic life with long lasting effects.

Other hazards : None

Precautionary statements : **Prevention:**
P273 Avoid release to the environment.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Carcinogenicity:

IARC

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

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Chemical name	CAS-No.	Concentration (%)
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	68411-46-1	>= 90 - <= 100 %

SECTION 4. FIRST AID MEASURES

If inhaled : Remove to fresh air.
If symptoms persist, call a physician.

In case of skin contact : Wash off with warm water and soap.
If symptoms persist, call a physician.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
If symptoms persist, call a physician.

If swallowed : Do NOT induce vomiting.
Rinse mouth with water.
Obtain medical attention.

Most important symptoms : None known.

NAUGALUBE® 438

Version: 1.2

Revision Date: 12/08/2017

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and effects, both acute and
delayed

No information available.

Notes to physician

: No information available.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Carbon dioxide (CO₂)
Dry powder
Foam
Water mist

Unsuitable extinguishing
media : Water spray

Specific hazards during
firefighting : Burning produces irritant fumes.
Exposure to decomposition products may be a hazard to
health.

Specific extinguishing
methods : Prevent fire extinguishing water from contaminating surface
water or the ground water system.

Special protective equipment
for firefighters : Body covering protective clothing, full "turn-out" gear.
Self-contained breathing apparatus (EN 133)

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions,
protective equipment and
emergency procedures : Wear suitable protective equipment.
Avoid contact with skin and eyes.

Environmental precautions : Do not allow contact with soil, surface or ground water.
Do not flush into surface water or sanitary sewer system.

Methods and materials for
containment and cleaning up : Pick up and arrange disposal without creating dust.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Handle in accordance with good industrial hygiene and safety
practice.
Avoid contact with skin and eyes.
Use with adequate ventilation.
Avoid dust formation.

NAUGALUBE® 438

Version: 1.2

Revision Date: 12/08/2017

Print Date: 05/22/2018

Remove all sources of ignition.
Take precautionary measures against static discharges.
May form explosive dust-air mixture.

Conditions for safe storage : Keep container tightly closed.
Keep in a well-ventilated place.
Keep away from heat.

Materials to avoid : Strong oxidizing agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Engineering measures : Use mechanical ventilation for general area control.
Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.
Respirator with combination filter for vapour/particulate (EN 141)

Hand protection : Gauntlets PVC or other plastic material gloves

Eye protection : Safety glasses with side-shields conforming to EN166

Skin and body protection : Impervious clothing
Remove and wash contaminated clothing before re-use.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Wax like Pastilles granules powder or flakes

Color : light brown

Odor : characteristic

Odour Threshold : No data available

NAUGALUBE® 438

Version: 1.2

Revision Date: 12/08/2017

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Melting point/range	: 85 °C
Boiling point/boiling range	: No data available
Evaporation rate	: Not applicable
Flash point	: 257 °C
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: Not applicable
Relative vapour density	: Not applicable
Relative density	: 0.99 (25 °C)
<u>Solubility(ies)</u>	
Water solubility	: 0.00041 g/l (20 °C)
	No data available
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Viscosity	
Viscosity, kinematic	: Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Hazardous polymerisation does not occur.
Conditions to avoid	: Heat, flames and sparks.
	Exposure to moisture Exposure to water vapour.
Incompatible materials	: Strong oxidizing agents

NAUGALUBE® 438

Version: 1.2

Revision Date: 12/08/2017

Print Date: 05/22/2018

Hazardous decomposition : Carbon oxides
products : Nitrogen oxides (NOx)

SECTION 11. TOXICOLOGICAL INFORMATION**Acute toxicity****Product:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

Components:**Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:**Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

Skin corrosion/irritation**Product:**Species: Guinea pig
Result: No skin irritation**Components:****Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:**Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation**Serious eye damage/eye irritation****Components:****Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:**Species: Rabbit
Result: No eye irritation
Method: OECD Test Guideline 405**Respiratory or skin sensitisation****Product:**Species: Guinea pig
Result: Did not cause sensitisation on laboratory animals.**Components:**

NAUGALUBE® 438

Version: 1.2

Revision Date: 12/08/2017

Print Date: 05/22/2018

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Species: Guinea pig

Assessment: Did not cause sensitisation on laboratory animals.

Method: OECD Test Guideline 406

Germ cell mutagenicity**Product:**Genotoxicity in vitro : Test Type: Ames test
Result: negative**Components:****Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:**Germ cell mutagenicity - : Not mutagenic in Ames Test
Assessment**Carcinogenicity****IARC**

No component 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

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NTP

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

Aspiration toxicity**Product:**

No aspiration toxicity classification

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

Toxicity to fish

Benzenamine, N-phenyl-, : LC50: > 71 mg/l
reaction products with 2,4,4- Exposure time: 96 h
trimethylpentene
(Component)Species: Danio rerio (zebra fish)
Method: OECD Test Guideline 203Toxicity to daphnia and other : EC50: 0.82 mg/l
aquatic invertebrates Exposure time: 24 h

NAUGALUBE® 438

Version: 1.2

Revision Date: 12/08/2017

Print Date: 05/22/2018

(Product)

Species: Daphnia magna (Water flea)

Toxicity to algae

Benzenamine, N-phenyl-,
reaction products with 2,4,4-
trimethylpentene
(Component): EbC50: > 100 mg/l
Exposure time: 72 h
Species: Desmodesmus subspicatus (green algae)
Method: OECD Test Guideline 201**Elimination information (persistence and degradability)**

Bioaccumulation (Product)

(Product)

:
: Remarks:
No data available

Mobility (Product)

: Remarks:
No data available

Biodegradability (Product)

: Remarks:
Not readily biodegradable.**Ecotoxicology Assessment**

Results of PBT assessment (Product)

This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

Additional ecological
information (Product): Harmful to aquatic organisms, may cause long-term adverse
effects in the aquatic environment.**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues

: In accordance with local and national regulations.

Contaminated packaging

: Empty remaining contents.
Dispose of as unused product.**SECTION 14. TRANSPORT INFORMATION****International Regulations****UNRTDG**

Not regulated as a dangerous good

NAUGALUBE® 438

Version: 1.2

Revision Date: 12/08/2017

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IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

National Regulations

49 CFR

Not regulated as a dangerous good

Not classified as dangerous in the meaning of transport regulations.

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

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

SARA304 Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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.

California Prop 65 This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Please note that Section 3 of this document lists only the hazardous components required by the specific country or region hazard communication regulations. The chemical identifiers listed in Section 3 are used globally for hazard communication purposes and may not reflect those used for chemical inventory coverage in a particular country or region. The chemical inventory information given in Section 15 of this document applies to the product as a whole and should be used when evaluating inventory compliance.

The components of this product are reported in the following inventories:

DSL All components of this product are on the Canadian DSL

AICS On the inventory, or in compliance with the inventory

NAUGALUBE® 438

Version: 1.2

Revision Date: 12/08/2017

Print Date: 05/22/2018

NZIoC	On the inventory, or in compliance with the inventory
ENCS	On the inventory, or in compliance with the inventory
KECI	On the inventory, or in compliance with the inventory
PICCS	On the inventory, or in compliance with the inventory
IECSC	On the inventory, or in compliance with the inventory
TCSI	On the inventory, or in compliance with the inventory
US.TSCA	On TSCA Inventory

SECTION 16. OTHER INFORMATION

Further information

Other Emergency Phone Number

<u>Latin America:</u>	Brazil	+55 113 711 9144
	All other countries	+44 (0) 1235 239 670
<u>Mexico:</u>		+52 555 004 8763

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. 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 a 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.