

HEALTH	2
FLAMMABILITY	0
REACTIVITY	0

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name	Longifolene, Natural
Product Number	FR20NAT
CAS-No.	475-20-7

1.2 Product Recommended Use

Flavorings

1.3 Preparation Information

Company	Aurochemicals 7 Nicoll Street Washingtonville, NY 10992 - USA
Telephone	845-496-6065
Fax	845-496-6248 Fax

1.4 Emergency Telephone Number

1-800-535-5053
International - 1-352-323-3500 collect

Section 2: HAZARD(s) IDENTIFICATION

2.1 Classification of substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Aspiration hazard (Category 1)
Skin irritation (Category 1)
Short-term (acute) aquatic hazard (Category 1)
Long-term (chronic) aquatic hazard (Category 1)

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label Elements, Including precautionary statements

Pictogram



Signal Word

Danger

Hazard Statement(s)

H304 May be fatal if swallowed and enters airways.
H317 May cause an allergic skin reaction.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statement(s)

P261 Avoid breathing dust/fume/gas/mist/vapors/spray
P264 Wash skin thoroughly after handling
P272 Contaminated work clothing must not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/eye protection/face protection
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P302+P352 IF ON SKIN: Wash with plenty of soap and water
P331 Do NOT induce vomiting.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if

- present and easy to do. Continue rinsing.
 P312 Call a POISON Center or doctor/physician if you feel unwell
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P362 Take off contaminated clothing and wash before reuse
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P405 Store locked up
 P501 Dispose of contents/container to an approved waste disposal plant

2.3 HNOC (Hazards not otherwise classified or not covered by GHS -None)

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	[1S-(1 α ,3 $\alpha\beta$,4 α ,8 $\alpha\beta$)]-Decahydro-4,8,8-trimethyl-9-methylene-1,4-methanoazulene
Formula	C ₁₅ H ₂₄
Molecular Weight	204.35 g/mol
CAS-No	475-20-7
EC-No.	207-491-2

Hazardous Components

Component	Classification	Concentration
[1S-(1 α ,3 $\alpha\beta$,4 α ,8 $\alpha\beta$)]-Decahydro-4,8,8-trimethyl-9-methylene-1,4-methanoazulene	Skin sens (1); Asp. Tox. (1); Aquatic Act (1); Aquatic Chron (1) H304, H317, H400, H410	<= 100%

Section 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice	Consult physician. Show this safety data sheet to the doctor in attendance.
Inhalation	Provide fresh air; keep at rest and at a comfortable position to breathe. Consult a physician
Contact with skin:	Remove contaminated clothing. Rinse skin with cool water then wash with mild soap and warm water and contact a physician.
Contact with eyes:	Rinse thoroughly with plenty of water for at least 15 minutes as a precaution and consult a physician.
Ingestion	DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Clothing contamination:	Remove contaminated clothing and wash before reuse.

4.2 Most important symptoms and effects both acute and delayed See section 2.2 and or section 11

4.3 Indication of any immediate medical attention and special treatment needed No data available

Section 5: FIREFIGHTING MEASURES

- 5.1 Extinguishing Media**
Suitable Extinguishing Media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- 5.2 Special hazards arising from the substance or mixture** Carbon oxides
- 5.3 Advice for fire fighters** Wear self contained breathing apparatus for firefighting if necessary.

5.4 Further information No data available

Section 6: ACCIDENTAL RELEASE MEASURES

- | | | |
|-----|--|--|
| 6.1 | Personal precautions, protective equipment and emergency procedures | Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust. |
| 6.2 | Environment precautions | Do not let product enter drains or sewer systems. |
| 6.3 | Methods and materials for containment and clean up | Contain spillage. Sweep up with broom and shovel. Place in a suitable, closed container for disposal. |
| 6.4 | Specific end use(s) | Apart from the uses mentioned in section 1.2, no other specific uses are stipulated. |

Section 7: HANDLING AND STORAGE

- | | | |
|-----|--------------------------------------|---|
| 7.1 | Precautions for safe handling | Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. |
| 7.2 | Conditions for Safe storage | Keep container tightly closed in a dry and well-ventilated place |
| 7.3 | Specific End use(s) | Fragrances |

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 **Control parameters**
Components with workplace control parameters - None

- 8.2 **Exposure Controls**
Appropriate Engineering Controls Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and at the end of the day.

Personal protective equipment **These recommendations are advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. They should not be construed as offering an approval for any specific use scenario.**

Eye/face protection Wear appropriate safety glasses with side shields conforming to EN 166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin protection Wear chemically resistant, rubber gloves when handling this product. Use proper glove removal techniques (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use. Wash and dry hands.

Body protection Impervious clothing protecting against chemicals, should be selected specifically for the work place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Respiratory protection For nuisance exposure use type P95 (US) or type P1 (EU) EN 143 particle respirator. For higher level of protection, use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate governmental standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure Do not let product enter drains.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a	Appearance	Colorless, clear liquid
b	Odor	No data available
c	Odor Threshold	No data available
d	pH	No data available
e	Melting Point /Freezing Point	254°C
f	Boiling Point	No data available
g	Flash Point	101°C
h	Evaporation Rate	No data available
i	Flammability (Solid, Gas)	No data available
j	Upper/lower Flammability Limit	No data available
k	Vapor pressure	No data available
l	Vapor density	No data available
m	Relative density at 25°C	0.928 g/cm ³
n	Solubility	No data available
o	Partition coefficient: n-octanol/water	No data available
p	Auto-ignition Temp.	No data available
q	Decomposition Temp.	No data available
r	Viscosity	No data available
s	Explosive properties	No data available
t	Oxidizing properties	No data available

9.2 Other Safety Information No data available

Section 10: STABILITY AND REACTIVITY

10.1	Reactivity	No data available
10.2	Chemical Stability	Stable under recommended storage conditions
10.3	Possibility of Hazardous reactions	No data available
10.4	Conditions to avoid	No data available
10.5	Incompatible materials	Strong oxidizing agents
10.6	Hazardous decomposition products	Hazardous decomposition products formed under fire conditions. - Carbon oxides
10.7	Further Information	No data available

Section 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity

LD50-Oral-Rat	>5,000 mg/kg
LC50-Inhalation	No data available
LD50-Dermal- Rabbit	> 5,000 mg/kg
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitization	No data available
Germ Cell mutagenicity	No data available

Carcinogenicity

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

ACGIH

	No component of this product, present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
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.
OSHA	No component of this product, present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Reproductive toxicity	No data available
Teratogenicity	No data available
Specific target organ toxicity-single exposure (GHS)	Inhalation – May cause respiratory irritation
Specific target organ toxicity-repeated exposures (GHS)	No data available
Aspiration Hazards	No data available
Signs and Symptoms of Exposure	Depending on the intensity and duration of exposure, effects may vary from mild irritation to severe destruction of tissue, prolonged or repeated exposure can cause: Damage to the eyes. Stomach-Irregularities – Based on Human Evidence
Synergistic effect	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated
RTECS:	No data available PB7724500

Section 12: ECOLOGICAL INFORMATION

12.1	Toxicity	mortality NOEC - Pimephales promelas (fathead minnow) - 0.9 mg/l LC50 - Pimephales promelas (fathead minnow) - 10.2 mg/l - 96 h Growth inhibition LOEC - Pimephales promelas (fathead minnow) - 0.9 mg/l - 7 d
12.2	Persistence and degradability	No data available
12.3	Bioaccumulative potential	No data available
12.4	Mobility in soil	No data available
12.5	Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required / not conducted
12.6	Other adverse effects	Very toxic to aquatic life with long lasting effects.

Section 13: DISPOSAL CONSIDERATIONS

13.1	Disposal methods	
	Product:	According to local regulations
	Packaging	According to local regulations

Section 14: TRANSPORT INFORMATION

DOT (US)	Not dangerous goods
IMDG	UN 3082; Class: 9; PG: III EMS-No: F-A, S-F
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ([1S-(1 α ,3 α β ,4 α ,8 α β)]-Decahydro-4,8,8-trimethyl-9-methylene-1,4-methanoazulene)
Marine Pollutant:	Yes

IATA

Proper Shipping Name:

UN 3082; Class: 9; PG: III EMS-No: F-A, S-F

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

([1S-(1 α ,3 $\alpha\beta$,4 α ,8 $\alpha\beta$)]-Decahydro-4,8,8-trimethyl-9-methylene-1,4-methanoazulene)

Section 15: REGULATORY INFORMATION

Reach No.	A registration number is not available for this substance as its uses are exempted from registration, the annual tonnage not require a registration or the registration is envisaged for a later registration deadline.
SARA 302 Components	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
SARA 313 Components	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.
SARA 311/312 Hazards	Acute health hazard, Chronic Health Hazard
Massachusetts Right to Know components	No components are subject to the Massachusetts Right to Know Act
Pennsylvania Right to Know components	([1S-(1 α ,3 $\alpha\beta$,4 α ,8 $\alpha\beta$)]-Decahydro-4,8,8-trimethyl-9-methylene-1,4-methanoazulene) CAS# 475-20-7 Rev. Date:
New Jersey Right to Know components	([1S-(1 α ,3 $\alpha\beta$,4 α ,8 $\alpha\beta$)]-Decahydro-4,8,8-trimethyl-9-methylene-1,4-methanoazulene) CAS# 475-20-7 Rev. Date:
California Prop. 65 components	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16: OTHER INFORMATION

HMIS Rating

Health hazard	2
Chronic Health Hazard*	
Flammability	0
Physical Hazard	0

Further Information

Aurochemicals provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. Aurochemicals makes no representations or warranties, either expressed or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, Aurochemicals will not be responsible, nor held liable, for damages resulting from use of or reliance upon this information.

Issued by:		Contact Person:
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Safety Data Sheet



The Natural Choice for Flavor
and Fragrance Ingredients

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