

Ethyllinalool 5011728

Version 2.0 Revision Date 10/02/2014 Print Date 06/29/2016

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Ethyllinalool

Substance name : 3,7-dimethylnona-1,6-dien-3-ol

CAS-No. : 10339-55-6

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub- : Ingredient for fragrances

stance/Mixture

1.3 Details of the supplier of the safety data sheet

Company : DSM Nutritional Products Ltd.

PO Box 2676 CH-4002 Basel : +41618158888

Telephone : +41618158888
Telefax : +41618157253
E-mail address Responsib- : sds.nutritionalp

le/issuing person

: sds.nutritionalproducts@dsm.com

1.4 Emergency telephone number

+41 62 866 2314

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

CAUTION		
Appearance	clear liquid	
Colour	colourless, pale yellow	
Odour	fresh, floral	

GHS Classification

Flammable liquids : Category 4

Skin irritation : Category 2

Eye irritation : Category 2A

GHS Label element

Hazard pictograms



Signal word : Warning

Hazard statements : H227 Combustible liquid.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary statements : Prevention:

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ eye protection/ face protection.



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Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

P332 + P313 If skin irritation occurs: Get medical advice/ atten-

tion.

P337 + P313 If eye irritation persists: Get medical advice/ atten-

tion.

P362 Take off contaminated clothing and wash before reuse.

Potential Health Effects

Primary Routes of Entry : Skin Absorption

Skin : May cause skin irritation.

Eyes : May cause eye irritation.

Aggravated Medical Condi-

tion

: None known.

Symptoms of Overexposure : No specific symptoms known.

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.

ACGIH No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential carcino-

gen by ACGIH.

OSHANo component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential carcino-

gen by OSHA.

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.

Additional hazards and advice

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: 1,6-Nonadien-3-ol, 3,7-dimethyl-

ELL

Brief description of the pro-

duct

: Substance

Molecular formula : C11-H20-O

Hazardous components

Component	CAS-No.	Weight percent
3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	97 - 100



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SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

If inhaled : Move to fresh air.

Consult a physician after significant exposure.

In case of skin contact : Take off contaminated clothing and shoes immediately.

Wash off with soap and plenty of water. If symptoms persist, call a physician.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

Obtain medical attention.

Most important symptoms and effects, both acute and

delayed

: No specific symptoms known.

Notes to physician : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Flammable properties

Flash point : 189 °F (87 °C)

at 1,013 hPa (101,300 mm/HG)

Method: ISO 13736

Ignition temperature : 250 °C (at 1,013 hPa, DIN 51794)

Lower explosion limit : not determined

Upper explosion limit : not determined

Flammability (solid, gas) : The substance or mixture does not emit flammable gases in

contact with water.

Fire fighting

Suitable extinguishing media : Alcohol-resistant foam

Dry chemical

Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Unsuitable extinguishing

media

: High volume water jet

Further information : Collect contaminated fire extinguishing water separately. This

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must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Protective equipment and precautions for firefighters

Specific hazards during fire-

fighting

: None known.

for firefighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

tive equipment and emer-

gency procedures

Personal precautions, protec- : Use personal protective equipment.

Ensure adequate ventilation.

Environmental precautions : Do not flush into surface water or sanitary sewer system.

Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Avoid contact with skin and eyes.

For personal protection see section 8.

Dispose of rinse water in accordance with local and national

regulations.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Ensure material transfers are under containment or extract

ventilation.

Ensure adequate ventilation, especially in confined areas.

Advice on protection against

fire and explosion

Take necessary action to avoid static electricity discharge.

Product will burn under fire conditions.

Conditions for safe storage : Protect against light.

Protect from humidity.

Keep container tightly closed and dry.

: < 77 °F (< 25 °C) Storage temperature

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Personal protective equipment

: In the case of vapour formation use a respirator with an ap-Respiratory protection

proved filter.

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Hand protection : Glove material: for example nitrile rubber

Consider the hazard characteristics of this product and any special workplace conditions when selecting the appropriate

type of protective gloves.

Eye protection : Safety glasses with side-shields

Skin and body protection : Choose body protection according to the amount and concen-

tration of the dangerous substance at the work place.

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

9.1 Information on basic physical and chemical properties

Appearance : clear liquid

Colour : colourless - pale yellow

Odour : fresh, floral

Odour Threshold : No information available.

pH : No data available

Melting point/range : < -73 °C (OECD Test Guideline 102)

Boiling point/boiling range : 215 °C (at 1,013 hPa)

Flash point : 87 °C (1,013 hPa, ISO 13736)

Evaporation rate : not determined

Flammability (solid, gas) : The substance or mixture does not emit flammable gases in

contact with water.

Lower explosion limit : not determined Upper explosion limit : not determined

Vapour pressure : 0.07 hPa (at 15 °C; OECD Test Guideline 104)

0.18 hPa (at 25 °C; OECD Test Guideline 104)

48 hPa (at 122 °C)

Relative vapour density : not determined

Density : 0.862 g/cm3 (at 20 °C; OECD Test Guideline 109)

Water solubility : 0.656 g/l (20 °C, pH 6.14; OECD Test Guideline 105)

slightly soluble

Solubility in other solvents : various organic solvents: soluble

Partition coefficient: n-

octanol/water

: log Pow 3.3 (20 °C; OECD Test Guideline 107)

Auto-ignition temperature : not pyrophoric

Ignition temperature : 250 °C (at 1,013 hPa, DIN 51794)

Thermal decomposition : Decomposes on heating.

Violent runaway reaction can occur.

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Viscosity, dynamic : ca. 7.3 mPa.s (at 20 °C)

Explosive properties : Not explosive Oxidizing properties : Not oxidizing

9.2 Other information

Refractive index : 1.462 - 1.466 (589 nm, 20 °C)

Molecular weight : 168.28 g/mol

Surface tension : 27.8 mN/m (20 °C, OECD Test Guideline 115)

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No hazards to be specially mentioned.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reac-

tions

: Possible incompatibility with materials listed under section

10.5.

Conditions to avoid : Heat.

Exposure to air.

Incompatible materials : Acids and bases

Oxidizing agents

Hazardous decomposition

products

: Peroxides

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50 (Rat): ca. 5,280 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

Skin irritation : Irritating to skin. (In vitro study, EPISKIN Human Skin Model

Test)

Eye irritation : Eye irritation (Rabbit)

Sensitisation : Did not cause sensitization. (human, Maximisation Test

(GPMT))

: May cause sensitisation of susceptible persons by skin

contact.

The effect is probably caused by degradation products or by

decomposition products.

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Carcinogenicity : This information is not available.

Genotoxicity in vitro : not mutagenic (Ames test, OECD Test Guideline 471)

: not genotoxic (Chromosome aberration test in vitro, OECD Test

Guideline 473)

Test performed using a similar product.

: not genotoxic (In vitro gene mutation study in mammalian cells,

OECD Test Guideline 476)

Test performed using a similar product.

Genotoxicity in vivo : not genotoxic (Mutagenicity (micronucleus test), Mouse, Oral,

OECD Test Guideline 474)

Test performed using a similar product.

Reproductive toxicity : Test performed using a similar product.

NOAEL: 200 mg/kg bw/d (Rat, females, Oral, OECD Test Gui-

deline 421)

Teratogenicity : Test performed using a similar product.

NOAEL: 1,000 mg/kg body weight (Rat, Oral)

STOT - single exposure (A-

cute exposure)

: The substance or mixture is not classified as specific target

organ toxicant, single exposure.

STOT - repeated exposure : NOAEL (Oral, Rat, male and female) : 160 mg/kg bw/d

Subacute toxicity study (28 days)
Test performed using a similar product.

(OECD Test Guideline 407)

: NOAEL (Dermal, Rat, male and female): 250 mg/kg bw/d

Sub-chronic toxicity study (90-day)
Test performed using a similar product.

(OECD Test Guideline 411)

Further information : May cause irritation of respiratory tract.

Aspiration toxicity : No aspiration toxicity classification

SECTION 12. ECOLOGICAL INFORMATION

Toxicity

Toxicity to fish : Danio rerio (zebra fish)

LC50 (96 h) 24 mg/l

(OECD Test Guideline 203)

Toxicity to daphnia and other

aquatic invertebrates

: Daphnia magna (Water flea) EC50 (48 h) 23 mg/l

(OECD Test Guideline 202)

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Toxicity to algae : Desmodesmus subspicatus (green algae)

ErC50 (72 h) 25.1 mg/l (OECD Test Guideline 201)

Desmodesmus subspicatus (green algae)

NOEC (72 h) 6.3 mg/l (OECD Test Guideline 201)

Persistence and degradability

Biodegradability : Readily biodegradable.

91 % (28 d)

(OECD Test Guideline 301C)

Bioaccumulative potential

Partition coefficient: n-

octanol/water

: log Pow 3.3 (20 °C ; OECD Test Guideline 107)

Mobility in soil

Distribution among environ-

mental compartments

: No data available

Surface tension : 27.8 mN/m (20 °C, OECD Test Guideline 115)

Results of PBT and vPvB assessment

Assessment : The substance does not fullfill the PBT criteria.

: The substance does not fullfill the vPvB criteria.

Other adverse effects

Remarks

40 CFR Protection of Environment; Part 82 Protection of Regulation

> Stratospheric Ozone - CAA Section 602 Class I Substances This product neither contains, nor was manufactured with a

> Class I or Class II ODS as defined by the U.S. Clean Air Act

Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological informa: There is no data available for this product.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Do not contaminate ponds, waterways or ditches with chemi-

cal or used container.

Do not dispose of waste into sewer.

Offer surplus and non-recyclable solutions to a licensed dis-

posal company.

User must determine if any wastes generated exhibit hazardous characteristics as per 40 CFR Part 261 or other national /

local legislation.

Contaminated packaging : Dispose of as unused product.

Do not re-use empty containers.

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SECTION 14. TRANSPORT INFORMATION

International Regulation

UNRTDG

Not regulated as a dangerous good

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

UN/ID/NA number : NA 1993

Proper shipping name : Combustible liquid, n.o.s.

(3,7-dimethylnona-1,6-dien-3-ol)

Class : CBL
Packing group : III
ERG Code : 128
Marine pollutant : no

Remarks : Above applies only to containers over 119 gallons or 450 li-

ters. Not regulated if shipped in packages less than or equal

to 119 gallons (450 liters).

SECTION 15. REGULATORY INFORMATION

TSCA list : Not relevant

Not relevant

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

CERCLA Reportable Quantity

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

SARA 304 Extremely Hazardous Substances Reportable Quantity

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

SARA 311/312 Hazards : Fire Hazard

Acute Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting re-

quirements 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.

Clean Air Act

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This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

Massachusetts Right To Know

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

Pennsylvania Right To Know

3,7-dimethylnona-1,6-dien-3-ol 10339-55-6 90 - 100 %

New Jersey Right To Know

3,7-dimethylnona-1,6-dien-3-ol 10339-55-6 90 - 100 %

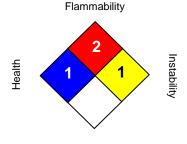
The components of this product are reported in the following inventories:

TSCA : On TSCA Inventory

SECTION 16. OTHER INFORMATION

Further information

NFPA:



Special hazard.

HMIS III:

HEALTH	2
FLAMMABILITY	2
PHYSICAL HAZARD	1

- 0 = not significant, 1 = Slight,
- 2 = Moderate, 3 = High
- 4 = Extreme, * = Chronic

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.

Abbreviations: ACGIH = American Conference of Governmental Industrial Hygienists. CERCLA = Comprehensive Environmental Response, Compensation and Liability Act. CFR =



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Code of Federal Regulations. CPR = Controlled Products Regulations. DSL = Canadian Domestic Substance List. DOT = Department of Transportation. EINECS = European Inventory of New and Existing Chemical Substances. EPA = Environmental Protection Agency. HCS = Hazardous Communication Standard. HEPA = High Efficiency Particulate Air. HMIS = Hazardous Material Identification System. IARC = International Agency for Research on Cancer. IATA = International Air Transport Association. IMDG = International Maritime Dangerous Good. NFPA = National Fire Protection Association. NIOSH = National Institute of Occupational Safety and Health. NJTSR = New Jersey Trade Secret Registry. NTP = National Toxicology Program. OSHA = Occupational Safety and Health Administration. SARA = Superfund Amendments and Reauthorization Act. TDG = Transportation of Dangerous Goods. TLV = Threshold Limit Value. TSCA = Toxic Substance Control Act. WHMIS = Workplace Hazardous Materials Information System.