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Trade name: Methyl Undecenoate natural (Continuation of page 1) · Hazard-determining components of labeling: Methyl undec-10-enoate Hazard statements H302+H332 Harmful if swallowed or if inhaled. · Precautionary statements Avoid breathing dust/fume/gas/mist/vapors/spray P261 Wash thoroughly after handling. P264 P301+P312 If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. P330 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Dispose of contents/container in accordance with local/regional/national/international P501 regulations. · Classification system: NFPA ratings (scale 0 - 4) Health = 2Fire = 1Reactivity = 0 · HMIS-ratings (scale 0 - 4) HEALTH 1 Health = 1 1 Fire = 1FIRE Reactivity = 0 REACTIVITY 0 · Other hazards Results of PBT and vPvB assessment · **PBT:** Not applicable. · vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description
- CAS: 111-81-9 Methyl undec-10-enoate
- Identification number(s)
- · EC number: 203-910-8

4 First-aid measures

- Description of first aid measures
- · General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

- In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: Immediately call a doctor.

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- Information for doctor:
 - Most important symptoms and effects, both acute and delayed No further relevant information available.
 - **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
- · Suitable extinguishing agents:
- CO2, powder or alcoholresistant foam.
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- Protective equipment: Mouth respiratory protective device.
- · Additional information
- Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Not required.

- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:** Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.
- Reference to other sections
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.
- Protective Action Criteria for Chemicals
- · PAC-1:

Substance is not listed.

· PAC-2:

Substance is not listed.

· PAC-3:

Substance is not listed.

7 Handling and storage

- · Handling:
- Precautions for safe handling
- Thorough dedusting.
- Ensure good ventilation/exhaustion at the workplace.
- · Information about protection against explosions and fires: No special measures required.

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Safety Data Sheet acc. to OSHA HCS (29 CFR § 1910.1200)

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- Conditions for safe storage, including any incompatibilities Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Please refer to the product specification and/or Certificate of Analysis for product storage requirements. Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.
-

1	Additional information about design of technical systems: No further data; see section 7.
	Control parameters
	Components with limit values that require monitoring at the workplace: Not required.
4	Additional information: The lists that were valid during the creation were used as a basis.
	Exposure controls
	Personal protective equipment:
	General protective and hygienic measures:
	Keep away from foodstuffs, beverages and feed.
	Wash hands before breaks and at the end of work.
ļ	Breathing equipment:
	In case of brief exposure or low pollution use respiratory filter device. In case of intensive or long
	exposure use respiratory protective device that is independent of circulating air.
1	Protection of hands:
	The glove material has to be impermeable and resistant to the product/ the substance/ the preparatior
	Due to missing tests no recommendation to the glove material can be given for the product/ t
	preparation/ the chemical mixture.
	Selection of the glove material should be based on consideration of the penetration times, rates
	diffusion and the degradation
	Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks
	quality and varies from manufacturer to manufacturer.
	Penetration time of glove material
	The exact break through time has to be determined by the manufacturer of the protective gloves a
	has to be observed.
	Eye protection: Not required.

General Information	and chemical properties Molecular Weight: 198.31 g/mol	
Appearance:		
Form:	Liquid	
Color:	According to product specification	
· Odor:	According to product specification	
· Odor threshold:	Not determined.	
· pH-value:	Not applicable.	



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Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. 248 °C (478.4 °F)
Flash point:	115 °C (239 °F)
Flammability (solid, gaseous):	Product is not flammable.
Decomposition temperature:	Not determined.
Ignition temperature:	Not determined.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits: Lower: Upper:	Not determined. Not determined.
Vapor pressure:	Not applicable.
Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate	0.885 g/cm³ (7.38533 lbs/gal) Not determined. Not applicable. Not applicable.
Solubility in / Miscibility with Water:	Insoluble.
Partition coefficient (n-octanol/wa	ater): Not determined.
Viscosity: Dynamic: Kinematic: VOC content:	Not applicable. Not applicable. 0.00 %
Other information	No further relevant information available.

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

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11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Oral LD50 1,560 mg/kg (ATE) Inhalative LC50/4 h 3.8 mg/l (ATE)

CAS: 111-81-9 Methyl undec-10-enoate Oral

- LD50 1,560 mg/kg (ATE)
- Inhalative LC50/4 h 3.8 mg/l (ATE)

· Primary irritant effect:

- on the skin: No irritant effect.
- · on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

Substance is not listed.

· NTP (National Toxicology Program)

Substance is not listed.

OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:
- Water hazard class 3 (Assessment by list): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

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13 Disposal considerations

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- **Recommendation:** Disposal must be made according to official regulations.

DOT, IMDG, IATA UN proper shipping name DOT IMDG				
DOT	Hazardous waste, liquid, n.o.s. (Methyl undec-10-enoate			
-				
	ENVIRONMENTALLY HAZARDOUS SUBSTANC LIQUID, N.O.S. (Methyl undec-10-enoate), MARIN POLLUTANT			
ΙΑΤΑ	ENVIRONMENTALLY HAZARDOUS SUBSTANC LIQUID, N.O.S. (Methyl undec-10-enoate)			
Transport hazard class(es)				
DOT, IMDG, IATA				
Class Label	9 Miscellaneous dangerous substances and articles			
	3			
Packing group DOT, IMDG, IATA	III			
Environmental hazards:				
Marine pollutant:	Yes			
Special marking (ADR):	Symbol (fish and tree) Symbol (fish and tree)			
Special marking (IATA):	Symbol (fish and tree)			
Special precautions for user	Warning: Miscellaneous dangerous substances ar articles			
Stowage Category	A			
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.				
Transport/Additional information:				
DOT				
Quantity limitations	On passenger aircraft/rail: No limit On cargo aircraft only: No limit			



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Remarks:	Special marking with the symbol (fish and tree).
IMDG Limited quantities (LQ) Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (METHYL UNDEC-10- ENOATE), 9, III

	Safety, health and environmental regulations/legislation specific for the substance or mixture	
	Sara	
•	Section 355 (extremely hazardous substances):	
	Substance is not listed.	
•	Section 313 (Specific toxic chemical listings):	
	Substance is not listed.	
•	TSCA (Toxic Substances Control Act):	
	ACTIVE	
•	Hazardous Air Pollutants	
	Substance is not listed.	
	Proposition 65	
•	Chemicals known to cause cancer:	
	Substance is not listed.	
· Chemicals known to cause reproductive toxicity for females:		
	Substance is not listed.	
•	Chemicals known to cause reproductive toxicity for males:	
	Substance is not listed.	
•	Chemicals known to cause developmental toxicity:	
	Substance is not listed.	
•	Carcinogenic categories	
•	EPA (Environmental Protection Agency)	
	Substance is not listed.	
•	TLV (Threshold Limit Value)	
	Substance is not listed.	
•	NIOSH-Ca (National Institute for Occupational Safety and Health)	
	Substance is not listed.	
•	GHS label elements	
	Pictograms on label shall be in the shape of a square set at a point and shall include a black haz	

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