

Safety Data Sheet 1300112 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 11/19/2018 Version: 1.0

I.1. Identification		
Product form	: Substance	
Substance name	: 1-Dodecene	
CAS No	: 112-41-4	
Product code	: 1300-1-12	
Formula	: C12H24	
Synonyms	: Dodec-1-ene / Dodecene, 1-	
Other means of identification	: MFCD00008961	
1.2. Relevant identified uses of the	substance or mixture and uses advised against	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development	
1.3. Details of the supplier of the sa	afety data sheet	
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Ameri T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlab		
1.4. Emergency telephone number		
Emergency number	: (844) 523-4086 (3E Company - Account 10069)	
SECTION 2: Hazard(s) identificat	tion	
2.1. Classification of the substance		
Classification (GHS-US)		
Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato	irritation bry irritation	
Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Asp. Tox. 1 H304 - May be fatal if swalld Full text of H-phrases: see section 16	irritation bry irritation	
Eye Irrit. 2A       H319 - Causes serious eye         STOT SE 3       H335 - May cause respirato         Asp. Tox. 1       H304 - May be fatal if swalld         Full text of H-phrases: see section 16         2.2.       Label elements	irritation bry irritation	
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Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Asp. Tox. 1 H304 - May be fatal if swalld Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	ritritation oved and enters airways	
Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Asp. Tox. 1 H304 - May be fatal if swalld Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	<ul> <li>irritation bry irritation owed and enters airways</li> <li>:</li></ul>	
Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Asp. Tox. 1 H304 - May be fatal if swalld Full text of H-phrases: see section 16	<ul> <li>irritation bry irritation owed and enters airways</li> <li>: irritation is airways</li> <li>: irritation is airways</li> <li>: irritation is airways</li> <li>: irritation is airways</li> <li>: H227 - Combustible liquid H304 - May be fatal if swallowed and enters airways</li> <li>H315 - Causes skin irritation H319 - Causes serious eye irritation</li> </ul>	ontact

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2.2 Other benerde	P33 P33 P36 P37 P40 P40 P40	<ol> <li>Do NOT induce vomiting</li> <li>P313 - If skin irritation occurs: Get med</li> <li>P313 - If eye irritation persists: Get med</li> <li>P364 - Take off contaminated clothing</li> <li>P378 - In case of fire: Use dry sand, dr</li> <li>P233 - Store in a well-ventilated place.</li> <li>P235 - Store in a well-ventilated place.</li> <li>Store locked up</li> <li>Dispose of contents/container to an approximate</li> </ol>	dical advice/atte and wash it befo y chemical or al Keep container Keep cool	ention ore reuse cohol-resistant foam to extinguish tightly closed
2.3. Other hazards No additional information available				
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
SECTION 3: Composition/informat	ion on i	ngredients		
3.1. Substance		-		
Substance type	: Mor	no-constituent		
Name		Product identifier	%	Classification (GHS-US)
1-Dodecene (Main constituent)		(CAS No) 112-41-4	<= 100	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Asp. Tox. 1, H304
Full text of H-phrases: see section 16				
3.2. Mixture				
Not applicable				
SECTION 4: First aid measures				
4.1. Description of first aid measures				
First-aid measures general		ase of accident or if you feel unwell, seek re possible). Move the affected personne		
First-aid measures after inhalation	resp	nove person to fresh air and keep comfort piration. Get medical advice/attention.		
First-aid measures after skin contact		sh with plenty of soap and water. Get med		
First-aid measures after eye contact	pres	nediately flush eyes thoroughly with water sent and easy to do. Continue rinsing. Get	medical advice	/attention.
First-aid measures after ingestion		NOT induce vomiting. Never give anything th out with water. Get medical advice/atte		n unconscious person. Rinse
4.2. Most important symptoms and ef				· · · · · · · · · · · · ·
Symptoms/injuries		most important known symptoms and eff and/or in section 11.	ects are describ	ed in the labelling (see section
4.3. Indication of any immediate medi	cal attenti	on and special treatment needed		
Treat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media		bhol resistant foam. Carbon dioxide. Dry p ropriate for surrounding fire.	owder. Water s	pray. Use extinguishing media
5.2. Special hazards arising from the	substance	or mixture		
Fire hazard		rmal decomposition generates: Carbon or		
Explosion hazard		c of explosion if heated under confinemen tainers.	t. Use water spr	ay or fog for cooling exposed
5.3. Advice for firefighters				
Firefighting instructions		ase of fire: Evacuate area. Fight fire remo	•	•
Protection during firefighting		ar gas tight chemically protective clothing aratus. For further information refer to sec		

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SECTION 6: Accidental release measure	
6.1. Personal precautions, protective equi	
General measures	<ul> <li>Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, fumes, vapor or spray.</li> </ul>
6.1.1. For non-emergency personnel	
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level.
6.2. Environmental precautions	
Avoid release to the environment. Notify authoritie	es if product enters sewers or public waters.
6.3. Methods and material for containmen	and cleaning up
For containment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.
Methods for cleaning up	: Take up large spills with pump or vacuum and finish with dry chemical absorbent. Use explosion-proof equipment. Take up small spills with dry chemical absorbent. Sweep or shovel spills into appropriate container for disposal. Ventilate area.
Other information	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe fumes, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, including	g any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.
Storage area	: Store in dry, cool, well-ventilated area.
SECTION 8: Exposure controls/perso	nal protection
8.1. Control parameters	
No additional information available	
8.2. Exposure controls	
Appropriate engineering controls	: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Hand protection	: Protective gloves. 29 CFR 1910.138: Hand Protection.
Eye protection	: Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.

- : Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.
- Skin and body protection : Wear suitable protective clothing. Respiratory protection
  - : In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.
  - : Safety shoes. 29 CFR 1910.136: Foot Protection.

SECTION 9: Physical and chemical properties				
9.1. Information on basic physical and chemical properties				
Physical state	: Liquid			
Color	: No data available			
Odor	: No data available			
Odor threshold	: No data available			
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Other information

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рН	: No data available
Melting point	: -35 °C
Freezing point	: No data available
Boiling point	: 213 °C
Flash point	: 77 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: 0.0159 mm Hg (at 25 °C)
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Specific gravity / density	: 0.76 g/ml (@ 20 °C)
Molecular mass	: 168.319 g/mol
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: 255 °C
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

#### 9.2. Other information

No additional information available

SECT	ION 10: Stability and reactivity
10.1.	Reactivity
No addi	tional information available
10.2.	Chemical stability
The pro	duct is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
No addi	tional information available
10.4.	Conditions to avoid
Keep av	way from heat, sparks and flame.
10.5.	Incompatible materials
Bases.	Oxidizing agents. Reducing agents.

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.

### SECTION 11: Toxicological information 11.1. Information on toxicological effects

#### Acute toxicity

: Oral: Not classified. Dermal: Not classified.

1-Dodecene (112-41-4)	
LD50 oral rat	> 10000 mg/kg
LD50 dermal rat	> 10000 mg/kg
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

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Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: May be fatal if swallowed and enters airways.

SECTI	ON 12: Ecological information	
12.1.	Toxicity	
No addit	ional information available	
12.2.	Persistence and degradability	
No addit	ional information available	
12.3.	Bioaccumulative potential	
1-Dode	ecene (112-41-4)	
BCF fis	sh 1	(high potential to bioaccumulate)
	-	(
12.4.	Mobility in soil	( ····································
	Mobility in soil ional information available	

No additional information available

13.1. Waste treatment methods	
Waste treatment methods	: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.
Waste disposal recommendations	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information	: Recycle the material as far as possible.
SECTION 14: Transport information	
Department of Transportation (DOT)	
In accordance with DOT	
Transport document description	: NA1993 Combustible liquid, n.o.s., 3, III
UN-No.(DOT)	: NA1993
Proper Shipping Name (DOT)	: Combustible liquid, n.o.s.
Transport hazard class(es) (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Packing group (DOT)	: III - Minor Danger
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
DOT Symbols	: D - Proper shipping name for domestic use only, or to and from Canada,G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102)	<ul> <li>IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquid: with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).</li> <li>T1 - 1.5 178.274(d)(2) Normal</li></ul>
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

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Other information

: No supplementary information available.

TDG

No additional information available

#### Transport by sea

No additional information available

#### Air transport

No additional information available

#### SECTION 15: Regulatory information

15.1. US Federal regulations

#### 1-Dodecene (112-41-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

#### 15.2. International regulations

#### CANADA

1-Dodecene (112-41-4)

Listed on the Canadian DSL (Domestic Sustances List)

#### **EU-Regulations**

No additional information available

#### National regulations

# 1-Dodecene (112-41-4) Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Japanese ISHL (Industrial Safety and Health Law) Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on INSQ (Mexican national Inventory of Chemical Substances) Listed on the TCSI (Taiwan Chemical Substance Inventory)

#### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

#### **SECTION 16: Other information**

Full text of H-phrases:

Asp. Tox. 1	Aspiration hazard Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 4	Flammable liquids Category 4
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H227	Combustible liquid
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

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NFPA health hazard	: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
NFPA fire hazard	: 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	<ul> <li>2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II &amp; IIIA)</li> </ul>
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NO <sup>-</sup> react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

SDS US (GHS HazCom 2012)

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is offered solely for your consideration, investigation, and verification. It does not represent any guarantee of the properties of the product nor that the hazard precautions or procedures described are the only ones which exist. SynQuest shall not be held liable or any damage resulting from handling or from contact with the above product.