



# SAFETY DATA SHEET

Preparation Date: 9/10/2015 Revision Date: Not Applicable Revision Number: Not Applicable

1. IDENTIFICATION

**Product identifier** 

Product code: D2933 Product Name: 1-DECENE

Other means of identification

Synonyms: 1-n-Decene

alpha-Decene

CAS #: 872-05-9
RTECS # HE2071401
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: Chemical intermediate.
Uses advised against No information available

**Supplier:** Spectrum Chemical Mfg. Corp

14422 South San Pedro St.

Gardena, CA 90248 (310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone numberChemtrec 1-800-424-9300Contact Person:Martin LaBenz (West Coast)Contact Person:Ibad Tirmiz (East Coast)

# 2. HAZARDS IDENTIFICATION

#### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Aspiration toxicity	Category 1
Flammable liquids	Category 3

### **Label elements**

Product code: D2933 Product name: 1-DECENE 1/11

#### Warning

#### Hazard statements

May be fatal if swallowed and enters airways

Flammable liquid and vapor



# Hazards not otherwise classified (HNOC)

Not Applicable

#### Other hazards

Not available

# **Precautionary Statements - Prevention**

Keep away from heat/sparks/open flames/hot surfaces. — No smoking

Keep container tightly closed

Ground/bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting/ .? /equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Wear protective gloves/protective clothing/eye protection/face protection

In case of fire: Use CO2, dry chemical, or foam to extinguish.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Do NOT induce vomiting

# **Precautionary Statements - Storage**

Store locked up

Store in a well-ventilated place. Keep cool

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %	Trade Secret
1-Decene	872-05-9	100	*
872-05-9			

# 4. FIRST AID MEASURES

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#### 4. FIRST AID MEASURES

First aid measures

General Advice: Poison information centers in each State capital city can provide additional

assistance for scheduled poisons (13 1126).

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes. Get medical attention if irritation develops. Consult a physician if necessary.

Eye Contact: Flush eye with water for 15 minutes. Get medical attention if irritation occurs. If symptoms

persist, call a physician.

**Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Get medical attention.

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms May cause eye/skin/respiratory tract irritation. Aspiration hazard if swallowed - can enter the

lungs and cause damage. May cause central nervous system effects. Somnolence.

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically

**Protection of first-aiders** 

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

#### 5. FIRE-FIGHTING MEASURES

**Extinguishing Media** 

Suitable Extinguishing Media: Dry chemical. Carbon dioxide (CO2). Water spray. Foam.

Unsuitable Extinguishing Media: Do not use a solid (straight) water stream as it may scatter

and spread fire.

Specific hazards arising from the chemical

Hazardous Combustion Products: Carbon oxides

Specific hazards: Flammable

Will be easily ignited by heat, sparks or flames

Fire may produce irritating, corrosive and/or toxic gases Vapor may travel considerable distance to source of ignition

and flash back

Most vapors are heavier than air. Vapors may spread along

ground and collect in low or confined areas (sewers,

basements, tanks)

**Special Protective Actions for Firefighters** 

**Specific Methods:** For larger fires, use water spray or fog. Cool containers with

flooding quantities of water until well after fire is out.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

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#### 6. ACCIDENTAL RELEASE MEASURES

# Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. All equipment

used when handling the product must be grounded. Use personal protective equipment. Evacuate personnel to safe areas. Avoid contact with skin, eyes and clothing. Remove all sources of ignition. Pay attention to flashback. Use spark-proof tools and explosion-proof equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. In case of large spill, water spray or vapor suppressing foam may be used

to reduce vapors, but may not prevent ignition in closed spaces.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Prevent entry into waterways, sewers, basements or confined areas.

# Methods and material for containment and cleaning up

Methods for containment Absorb spill with inert material (e.g. vermiculite, dry sand or earth), then place in a

suitable chemical waste container. In case of large spill, dike if needed. Dike far

ahead of liquid spill for later disposal.

Methods for cleaning up

Use appropriate tools to put the spilled material in a suitable chemical waste disposal

container. Use only non-sparking tools. Clean contaminated surface thoroughly.

### 7. HANDLING AND STORAGE

#### Precautions for safe handling

#### **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Remove all sources of ignition. Keep away from incompatible materials. All equipment used when handling the product must be grounded. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded.

#### Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapors or spray mist. Do not ingest. Do not smoke. Keep away from heat and sources of ignition. Use only in well-ventilated areas. Handle in accordance with good industrial hygiene and safety practice.

# Conditions for safe storage, including any incompatibilities

### **Technical Measures/Storage Conditions:**

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Store away from incompatible materials. Store in a segrated and approved area.

#### **Incompatible Materials:**

Strong oxidizing agents. Acids.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

#### National occupational exposure limits

# **United States**

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
1-Decene	None	None	None	100 ppm TWA
872-05-9				

#### Canada

Components	Alberta	British Columbia	Ontario	Quebec
1-Decene	None	None	None	None
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#### **Australia and Mexico**

Components	Australia	Mexico
1-Decene	None	None
872-05-9		

#### Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation. Provide exhaust ventilation or

other engineering controls to keep the airborne

concentrations of vapors and mist below their respective

No information available

threshold limit value.

#### Individual protection measures, such as personal protective equipment

**Personal Protective Equipment** 

Eye protection: Goggles

Skin and body protection: Long sleeved clothing. Chemical resistant apron. Gloves.

Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Respiratory protection:

Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. **Hygiene measures:** 

Wash hands before breaks and immediately after handling the product.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Appearance: Color: Liquid No information available Colorless.

Odor: **Taste** Molecular/Formula weight:

No information available 140.27 Pleasant.

Formula: Flammability: Flash point (°C):

C10-H20 No information available 44°C

Flash Point Tested according to: **Autoignition Temperature (°C/°F):** Flashpoint (°C/°F):

44-49°C/111.2-120-2°F Closed cup

**Lower Explosion Limit (%): Upper Explosion Limit (%):** :Ha

No information available No information available No information available

Melting point/range(°C/°F): Boiling point/range(°C/°F): **Bulk density:** 

-66°C/ -86°F 170.56°C/339°F No information available

Decomposition temperature(°C/°F): Density (g/cm3): Specific gravity:

No information available No information available 0.73-408 @ 20 deg. C

Vapor pressure @ 20°C (kPa): **Evaporation rate:** Vapor density:

0.22 kPa@ 25 deg. C No information available 4.84

VOC content (g/L): Partition coefficient Odor threshold (ppm): No information available No information available

(n-octanol/water):

5.7

**Viscosity:** Miscibility: Solubility:

No information available No information available Insoluble in water

# 10. STABILITY AND REACTIVITY

Reactivity

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# 10. STABILITY AND REACTIVITY

Reactive with strong oxidizing agents Reactive with acids

**Chemical stability** 

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

**Conditions to avoid:** Heat. Ignition sources. Incompatible materials.

**Incompatible Materials:** Strong oxidizing agents. Acids.

Hazardous decomposition products: Carbon monoxide. Carbon dioxide.

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

#### 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

**Principal Routes of Exposure:** Skin. Eyes. Inhalation. Ingestion.

**Acute Toxicity** 

#### **Component Information**

1-Decene - 872-05-9

LD50/oral/rat = No information available

LD50/oral/mouse = No information available

LD50/dermal/rat = No information available

LD50/dermal/rabbit = No information available

LC50/inhalation/rat = No information available

LC50/inhalation/mouse = No infomation available

Other LD50 or LC50information = >10000 mg/kg LD (Lethal Dose) dermal Rabbit

>10000 mg/kg LD (Lethal Dose) oral Rat

>8500 mg/m<sup>3</sup>1 H LC (Lethal Concentration) Inhalation Rat

#### **Product Information**

LD50/oral/rat =

VALUE- Acute Tox Oral = No information available

LD50/oral/mouse =

Value - Acute Tox Oral = No information available

LD50/dermal/rabbit

**VALUE-Acute Tox Dermal =** No information available

LD50/dermal/rat

**VALUE -Acute Tox Dermal =** No information available

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LC50/inhalation/rat

VALUE-Vapor = No information available
VALUE-Gas = No information available
VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

**VALUE-Vapor** = No information available **VALUE - Gas** = No information available

VALUE - Dust/Mist = No information available

**Symptoms** 

**Skin Contact:** Substance may cause slight skin irritation.

**Eye Contact:** May cause slight irritation.

**Inhalation** Vapors may produce slight irritation of the respiratory tract if present in high

concentration. May also act as a slight anesthetic. May affect behavior/central nervous system. May affect behavior/central nervous system (somnolence).

**Ingestion** No information available

**Aspiration hazard** May be fatal if swallowed and enters airways.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity No information available

Sensitization: No information available

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic

Components	IARC	ACGIH -	NTP	OSHA HCS -	Australia - Prohibited	Australia - Notifiable
_		Carcinogens		Carcinogens	Carcinogenic	Carcinogenic
					Substances	Substances
1-Decene	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

Reproductive toxicity No data is available

Reproductive Effects:

Developmental Effects:
No information available
No information available
No information available

**Specific Target Organ Toxicity** 

STOT - single exposure
STOT - repeated exposure
Target Organs:

No information available
No information available

# 12. ECOLOGICAL INFORMATION

# **Ecotoxicity**

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# 12. ECOLOGICAL INFORMATION

**Ecotoxicity effects:** No data available.

Persistence and degradability: No information available

Bioaccumulative potential: No information available

Mobility: No information available

# 13. DISPOSAL CONSIDERATIONS

# **Disposal Methods**

# Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

#### Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
1-Decene	None	None	None	None

# 14. TRANSPORT INFORMATION

DOT

**UN-No:** UN3295

**Proper Shipping Name:** Hydrocarbons, liquid, n.o.s.(1-decene)

Hazard Class: 3

Subsidiary Risk: No information available

Packing Group: III ERG No: 128

Marine Pollutant No data available DOT RQ (lbs): No information available

TDG (Canada)

**UN-No:** UN3295

**Proper Shipping Name:** Hydrocarbons, liquid, n.o.s.

Hazard Class: 3

Subsidiary Risk: No information available

Packing Group:

**Description:** No information available

ADR

**UN-No:** UN3295

**Proper Shipping Name:** Hydrocarbons, liquid, n.o.s.

Hazard Class: 3 Packing Group: III

Subsidiary Risk:No information availableClassification Code:No information availableDescription:No information availableCEFIC Tremcard No:No information available

**IMO / IMDG** 

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# 14. TRANSPORT INFORMATION

**UN-No:** UN3295

**Proper Shipping Name:** Hydrocarbons, liquid, n.o.s.

Hazard Class: 3

Subsidiary Risk: No information available

Packing Group:

Description:No information availableIMDG Page:No information availableMarine PollutantNo information available

EMS: F-E

MFAG: No information available Maximum Quantity: No information available

RID

**UN-No:** UN3295

**Proper Shipping Name:** Hydrocarbons, liquid, n.o.s.

Hazard Class: 3

Subsidiary Risk: No information available

Packing Group:

Classification Code: No information available Description: No information available

**ICAO** 

**UN-No:** UN3295

**Proper Shipping Name:** Hydrocarbons, liquid, n.o.s.

Hazard Class: 3

Subsidiary Risk: No information available

Packing Group:

**Description:** No information available

**IATA** 

**UN-No:** UN3295

**Proper Shipping Name:** Hydrocarbons, liquid, n.o.s.

Hazard Class: 3

Subsidiary Risk: No information available

Packing Group: III ERG Code: 3L

**Description:** No information available

# 15. REGULATORY INFORMATION

#### International Inventories

Components	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
1-Decene	Present	Present KE- 09498	Present	Present (2)-27	Present	Present	Present 212-819-2

#### **U.S. Regulations**

# California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

#### Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

# Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

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Components	Carcinogen	Developmental Toxicity	Male Reproductive	Female Reproductive
			Toxicity	Toxicity:
1-Decene	Not Listed	Not Listed	Not Listed	Not Listed

# **CERCLA/SARA**

Components	<b>CERCLA - Hazardous</b>	Section 302 Extremely	Section 302 Extremely	Section 313 -	Section 313 - Reporting
	Substances and their	Hazardous	Hazardous	Chemical Category	de minimis
	Reportable Quantities	Substances and TPQs	Substances and RQs	,	
1-Decene	None	None	None	None	None

#### U.S. TSCA

•	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
1-Decene	Not Applicable	Not Applicable

# Canada

#### WHMIS hazard class:

B3 Combustible liquid

#### **Canada Controlled Products Regulation:**

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

# Inventory

Components	Canada (DSL)	Canada (NDSL)
1-Decene	Present	Not Listed

Components	CEPA Schedule I - Toxic Substances	CEPA - 2010 Greenhouse Gases Subject to Manditory	
		Reporting	
1-Decene	Not listed	Not listed	

#### **EU Classification**

# R-phrase(s)

R10 - Flammable.

# S -phrase(s)

- S 9 Keep container in a well-ventilated place.
- S16 Keep away from sources of ignition No smoking.
- S23 Do not breathe gas/fumes/vapor/spray.
- S33 Take precautionary measures against static discharges.

Components	Classification	Concentration Limits:	Safety Phrases
1-Decene		No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

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#### Indication of danger:

Flammable

# 16. OTHER INFORMATION

Preparation Date:9/10/2015Revision Date:Not ApplicablePrepared by:Sonia Owen

Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

**End of Safety Data Sheet** 

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