

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

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iarmala : 1111200 iynoyms : Undec-2-enal / (2)-2-Undecenal <b>2.0. Recommended use and restrictions on use</b> to additional information available <b>3.3. Supplier</b> iynerzine <b>3.4. Energency telephone numer</b> indegraymerzine.com - www.yuperzine.com <b>4.4. Energency telephone numer</b> indegraymerzine.com - www.yuperzine.com <b>4.4. Energency telephone numer</b> indegraymerzine.com - www.yuperzine.com <b>4.4. Energency telephone numer</b> indegraymerzine.com - www.yuperzine.com <b>5.4. Energency telephone numer</b> indegraymerzine.com - www.yuperzine.com <b>5.5. Classification of the substance or mixture</b> <b>5.1. Classification of the substance or mixture</b> <b>5.1. Classification</b> <b>1.3. Supplier</b> <b>5.2. Offs Label elements</b> , including precautionary statements <b>5.3. Stabel elements</b> , including precautionary statements <b>5.3. Clisses</b> <b>5.3. Clisses</b> <b>5.4. Clisses</b> <b>5.7. Clisses</b> <b>5.</b>	CAS-No.	: 2463-77-6
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	2.3. Other hazards which do not re	esult in classification
.4. Unknown acute toxicity (GHS US)		

SECTION 3: Composition/Information on ingredients

3.1. Substances

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Name	Product identifier	%	GHS-US classification
2-Undecenal	(CAS-No.) 2463-77-6	96 - 100	Skin Irrit. 2, H315
(Main constituent)			Eye Irrit. 2A, H319

Full text of hazard classes and H-statements : see section 16

Full text of hazard classes and H-statements : :	see section 16
3.2. Mixtures	
Not applicable	
SECTION 4: First-aid measures	
4.1. Description of first aid meas	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.
4.2. Most important symptoms a	nd effects (acute and delayed)
Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: Eye irritation.
4.3. Immediate medical attentior	n and special treatment, if necessary
Treat symptomatically.	
SECTION 5: Fire-fighting measu	ires
5.1. Suitable (and unsuitable) ex	tinguishing media
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Specific hazards arising from	the chemical
Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
5.3. Special protective equipmen	t and precautions for fire-fighters
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release	measures
	ctive equipment and emergency procedures
6.1.1. For non-emergency personnel Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes.
Emergency procedures	· ventilate spinage area. Avoia contact with skin and cycs.
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".
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for co	ntainment and cleaning up
Methods for cleaning up	: Take up liquid spill into absorbent material.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 13.	
SECTION 7: Handling and stora	ge
7.1. Precautions for safe handlin	
Precautions for safe handling	: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.
	: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.
Hygiene measures	Always wash hands after handling the product.
Hygiene measures 7.2. Conditions for safe storage,	
	Always wash hands after handling the product.

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## SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

## 8.2. Appropriate engineering controls

Appropriate engineering controls Environmental exposure controls : Ensure good ventilation of the work station.

: Avoid release to the environment.

## 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

Protective gloves

#### Eye protection:

Safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### **Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment

## SECTION 9: Physical and chemical properties

section stringstear and enemiear			
9.1. Information on basic physical a	nd chemical properties		
Physical state	: Liquid		
Appearance	: Colorless or slightly yellow liquid.		
Color	: Colorless to pale yellow		
Odor	: No data available		
Odor threshold	: No data available		
pH	: No data available		
Melting point	: Not applicable		
Freezing point	: No data available		
Boiling point	: 244 - 245 °C		
Flash point	: 227 °F		
Relative evaporation rate (butyl acetate=1)	: No data available		
Flammability (solid, gas)	: Not applicable.		
Vapor pressure	: No data available		
Relative vapor density at 20 °C	: No data available		
Relative density	: No data available		
Specific gravity / density	: 0.84 - 0.848 g/ml		
Molecular mass	: 168.28 g/mol		
Solubility	: No data available		
Log Pow	: No data available		
Auto-ignition temperature	: No data available		
Decomposition temperature	: No data available		
Viscosity, kinematic	: No data available		
Viscosity, dynamic	: No data available		
Explosion limits	: No data available		
Explosive properties	: No data available		
Oxidizing properties	: No data available		

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9.2. Other information

## No additional information available

## SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

## 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

## 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

11.1. Information on toxicological effects		ts
Acute toxicity	:	Not classified
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
Reproductive toxicity	:	Not classified
Specific target organ toxicity – single exposure	:	Not classified
Specific target organ toxicity – repeated exposure	:	Not classified
Aspiration hazard	:	Not classified
Symptoms/effects after skin contact	:	Irritation.
Symptoms/effects after eye contact	:	Eye irritation.

SECTIO	ECTION 12: Ecological information		
12.1.	Toxicity		
Ecology -	general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.	
12.2.	Persistence and degradability		
No additi	ional information available		
12.3.	Bioaccumulative potential		
No addit	ional information available		
12.4.	Mobility in soil		
No additi	ional information available		
12.5.	Other adverse effects		

No additional information available

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## SECTION 13: Disposal considerations

#### 13.1. Disposal methods

#### Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

## SECTION 14: Transport information

**Department of Transportation (DOT)** 

In accordance with DOT

: No supplementary information available.

### **Transportation of Dangerous Goods**

### Transport by sea

Other information

#### Air transport

SECTION 15: Regulatory information
15.1. US Federal regulations
2-Undecenal (2463-77-6)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.2. International regulations

#### **CANADA**

### 2-Undecenal (2463-77-6)

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

2-Undecenal (2463-77-6)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### National regulations

2-Undecenal (2463-77-6)

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 NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

## 15.3. US State regulations

No additional information available

## SECTION 16: Other information

#### Full text of H-phrases:

H315	Causes skin irritation
H319	Causes serious eye irritation

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NFPA health hazard	: 1 - Materials that, under emergency conditions, can cause significant irritation.
NFPA fire hazard	: 1 - Materials that must be preheated before ignition can occur.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
Hazard Rating	
Health	: 1 Slight Hazard - Irritation or minor reversible injury possible
Flammability	: 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
Personal protection	: B
	B - Safety glasses, Gloves

Synerzine US

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product