

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

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: Nonanal
CAS-No.	: 124-19-6
Product code	: (US) W14120
Formula	: C9H18O
Synonyms	: 1-Nonaldehyde / 1-Nonanal / 1-Nonyl aldehyde / Pelargonic aldehyde / n-Nonanal / Nonyl aldehyde / Aldehyde C-9

#### Recommended use and restrictions on use 1.2.

No additional information available

1.3.	Supplier
Synerzir	ne
5340 Hv	wy 42 S
Ellenwo	ood, Georgia 30294 - USA
T 404-52	24-6744 - F 404-577-1651
<u>info@sy</u>	<u>znerzine.com</u> - <u>www.synerzine.com</u>

### 1.4. Emergency telephone number

Emergency number

2 1

: Infotrac 1-800-535-5053 (Contract# 102471) Dial +1-352-323-3500 when outside the US

### SECTION 2: Hazard(s) identification Classification of the substa

GHS-US classification			
Flammable liquids Category 4	H227	Combustible liquid	
Skin corrosion/irritation Category 2	H315	Causes skin irritation	
Serious eye damage/eye irritation Category 2A	H319	Causes serious eye irritation	
Specific target organ toxicity (single exposure) Category 3	H335	May cause respiratory irritation	
Full text of H statements : see s	section 16		

2.2. GHS Label elements, inclu GHS-US labeling	ding precautionary statements
Hazard pictograms (GHS-US)	
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	: H227 - Combustible liquid H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation
Precautionary statements (GHS-US)	<ul> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. heat, hot surfaces, open flames, sparks</li> <li>P261 - Avoid breathing fume, gas, mist, spray, vapors.</li> <li>P264 - Wash hands, forearms and face thoroughly after handling.</li> <li>P271 - Use only outdoors or in a well-ventilated area.</li> <li>P280 - Wear eye protection, face protection, protective clothing, protective gloves.</li> <li>P302+P352 - If on skin: Wash with plenty of soap and water</li> <li>P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing</li> <li>P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing</li> <li>P312 - Call a doctor, a POISON CENTER if you feel unwell</li> </ul>
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	<ul> <li>P321 - Specific treatment (see supplemental first aid instructions on this label)</li> <li>P332+P313 - If skin irritation occurs: Get medical advice/attention.</li> <li>P337+P313 - If eye irritation persists: Get medical advice/attention.</li> <li>P362 - Take off contaminated clothing and wash before reuse.</li> <li>P370+P378 - In case of fire: Use alcohol resistant foam, dry sand to extinguish.</li> <li>P403+P233 - Store in a well-ventilated place. Keep container tightly closed.</li> <li>P403+P235 - Store in a well-ventilated place. Keep cool.</li> <li>P405 - Store locked up.</li> <li>P501 - Dispose of contents/container to an approved waste disposal plant</li> </ul>			
2.3. Other hazards which do not	result in classification			
No additional information available				
2.4. Unknown acute toxicity (GH	S US)			
Not applicable				
SECTION 3: Composition/Infor	mation on ingredients			
3.1. Substances				
Name		Product identifier	%	GHS-US classification
Nonanal (Main constituent)		(CAS-No.) 124-19-6	95 - 100	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Full text of hazard classes and H-statements :	see section 16			
3.2. Mixtures				
Not applicable				
<b>SECTION 4: First-aid measures</b>				
4.1. Description of first aid mea	sures			
First-aid measures general	: Call a poison center/docto	r/physician if you feel unw	vell.	
First-aid measures after inhalation	: Remove person to fresh ai center/doctor/physician in		· breathing. C	all a poison
First-aid measures after skin contact	: Wash skin with plenty of w medical advice/attention.	vater. Take off contaminate	ed clothing. I	f skin irritation occurs: Get
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/docto	: Call a poison center/doctor/physician if you feel unwell.		
4.2. Most important symptoms a	nd effects (acute and delaye	:d)		
Symptoms/effects after inhalation	: May cause respiratory irrit	tation.		
Symptoms/effects after skin contact	: Irritation.			
Symptoms/effects after eye contact	: Eye irritation.			
4.3. Immediate medical attentio	n and special treatment, if n	ecessary		
Treat symptomatically.				
SECTION 5: Fire-fighting measure	ures			
5.1. Suitable (and unsuitable) ex				
Suitable extinguishing media	: Water spray. Dry powder.	Foam. Carbon dioxide.		
5.2. Specific hazards arising from	n the chemical			
Fire hazard	: Combustible liquid.			
Reactivity	: The product is non-reactiv	e under normal conditions	s of use, stora	ge and transport.
, ,	at and procautions for fire fi		, 50010	

Protection during firefighting

: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

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SECTION 6: Accidental release	
6.1. Personal precautions, protec	tive equipment and emergency procedures
6.1.1. For non-emergency personnel Emergency procedures	: Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing fume, gas, mist, spray, vapors. Avoid contact with skin and eyes.
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. Notify authorities if product enters sewers or public waters.
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	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing fume, gas, mist, spray, vapors. Avoid contact with skin and eyes.
Hygiene measures	: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage,	including any incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep cool. Store locked up. Keep container tightly closed.
SECTION 8: Exposure controls/	nersonal protection
8.1. Control parameters	
No additional information available	
8.2. Appropriate engineering con	
Appropriate engineering controls Environmental exposure controls	<ul> <li>Ensure good ventilation of the work station.</li> <li>Avoid release to the environment.</li> </ul>
-	
8.3. Individual protection measu	res/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

<b>SECTION 9: Physical</b>	SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties			
Physical state	: Liquid		
Appearance	: A light yellow liquid.		
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Color	: light yellow
Odor	: citrus rose-like fatty
Odor threshold	: No data available
pH	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: 93 °C @ 23mm Hg
Flash point	: 145 °F TCC
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	: 0.825 - 0.827 g/cm <sup>3</sup>
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

### 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	s reactions	
No dangerous reactions known under n	ormal conditions of use.	
10.4. Conditions to avoid		
Avoid contact with hot surfaces. Heat. N	lo flames, no sparks. Eliminate all sources of ignition.	
10.5. Incompatible materials		
No additional information available		
10.6. Hazardous decomposition products		
Under normal conditions of storage and	l use, hazardous decomposition products should not be produced.	
SECTION 11: Toxicological	information	
11.1. Information on toxicolo	ogical effects	
Acute toxicity	: Not classified	
Nonanal (124-19-6)		
LD50 oral rat	> 5 g/kg	
LD50 dermal rabbit	> 5000 mg/kg	
LC50 inhalation rat (mg/l)	0.6 - 3.8 mg/l/4h	

- Skin corrosion/irritation : Causes skin irritation.
- Serious eye damage/irritation : Causes serious eye irritation.
- Respiratory or skin sensitization : Not classified

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Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: May cause respiratory irritation.
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified
Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: Eye irritation.

SECTION 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 additional information available				
12.3. Bioaccumulative potential				
No additional information available				
12.4. Mobility in soil				

No additional information available

### 12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerat	cions
13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport informat	ion
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.
Class (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, 31HD2, 31HD2 and 31HH2). Additional Requirement: Only liquids 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>
	during transport, and tf is the temperature in degrees celsius of the liquid during filling.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
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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.
Other information	: No supplementary information available.

#### **Transportation of Dangerous Goods**

Transport by sea

#### Air transport

SECTION 15: Regulatory information	
15.1. US Federal regulations	
Nonanal (124-19-6)	
Listed on the United States TSCA (Toxic Substances Control Act) inven	itory

#### 15.2. International regulations

### CANADA

### Nonanal (124-19-6)

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

#### Nonanal (124-19-6)

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

# National regulations

Nonanal (124-19-6) 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 the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on CICR (Turkish Inventory and Control of Chemicals) 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:

H227	Combustible liquid
H315	Causes skin irritation
H319	Causes serious eye irritation
Н335	May cause respiratory irritation

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NFPA health hazard	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA fire hazard	: 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
Hazard Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 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 & IIIA)
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	: C
	C - Safety glasses, Gloves, Synthetic apron

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