

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

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#### SECTION 1: Identification

### Identification

Product form : Substance Acetophenone Substance name CAS-No. 98-86-2 Product code : (US) W0120 Formula C8H80

Acetylbenzene / Benzene, acetyl- / Ethanone, 1-phenyl- / Methyl phenyl ketone / Phenyl methyl Synonyms

ketone / 1-Phenylethanone

#### Recommended use and restrictions on use

No additional information available

#### Supplier

Synerzine 5340 Hwy 42 S

Ellenwood, Georgia 30294 - USA T 404-524-6744 - F 404-577-1651

info@synerzine.com - www.synerzine.com

#### 1.4. Emergency telephone number

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

### SECTION 2: Hazard(s) identification

#### Classification of the substance or mixture

#### GHS-US classification

Flammable liquids Category H227 Combustible liquid

Acute toxicity (oral) H302

Category 4

Acute toxicity (dermal) H312

Category 4

Serious eye damage/eye H318

irritation Category 1

Full text of H statements: see section 16

Harmful if swallowed

Harmful in contact with skin

Causes serious eye damage

### GHS Label elements, including precautionary statements

### **GHS-US** labeling

Hazard pictograms (GHS-US)





Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H227 - Combustible liquid

H302+H312 - Harmful if swallowed or in contact with skin

H318 - Causes serious eye damage

Precautionary statements (GHS-US) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking, heat, hot surfaces, open flames, sparks

P264 - Wash hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product.

P280 - Wear eye protection, face protection, protective clothing, protective gloves. P301+P312 - If swallowed: Call a doctor, a POISON CENTER if you feel unwell

P302+P352 - If on skin: Wash with plenty of soap and water

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing P310 - Immediately call a doctor, a POISON CENTER P312 - Call a doctor, a POISON CENTER if you feel unwell

P321 - Specific treatment (see supplemental first aid instructions on this label)

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P330 - Rinse mouth.

P362+P364 - Take off contaminated clothing and wash it before reuse.

P370+P378 - In case of fire: Use alcohol resistant foam, carbon dioxide (CO2), dry sand to

extinguish.

P403+P235 - Store in a well-ventilated place. Keep cool.

P501 - Dispose of contents/container to an approved waste disposal plant

#### 2.3. Other hazards which do not result in classification

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Name	Product identifier	%	GHS-US classification
Acetophenone	(CAS-No.) 98-86-2	99 - 100	Flam. Liq. 4, H227
(Main constituent)			Acute Tox. 4 (Oral), H302
			Acute Tox. 4 (Dermal), H312
			Eye Dam. 1, H318

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 measures

First-aid measures general : Call a poison center/doctor/physician if you feel unwell.

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.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. Call a physician immediately.

First-aid measures after ingestion : Rinse mouth. Call a poison center/doctor/physician if you feel unwell.

#### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after eye contact : Serious damage to eyes.

### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

### SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

#### 5.2. Specific hazards arising from the chemical

Fire hazard : Combustible liquid.

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

#### 5.3. Special protective equipment 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

#### 6.1. Personal precautions, protective equipment and emergency procedures

### 6.1.1. For non-emergency personnel

Emergency procedures : No open flames, no sparks, and no smoking. Avoid contact with skin, eyes and clothing.

### **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.

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#### 6.3. Methods and material for containment 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 storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking. Wear personal protective equipment. Do not get in

eyes, on skin, or on clothing.

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.

### SECTION 8: Exposure controls/personal protection

#### 3.1. Control parameters

Acetophenone (98-86-2)		
ACGIH	Local name	Acetophenone
ACGIH	ACGIH TWA (ppm)	10 ppm
ACGIH	Remark (ACGIH)	URT irr; CNS impair; pregnancy loss
AIHA	WEEL TWA (ppm)	10 ppm

### 8.2. Appropriate engineering controls

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

Environmental exposure controls : 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

## 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : A colorless to yellow, clear liquid.

Color : colorless to yellow

Odor : Floral

Odor threshold : 0.3 ppm (Hellman and Small)

1.5 mg/m<sup>3</sup> (Hellman and Small)

pH : No data available

Melting point : 20.5 °C

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Molecular mass

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Freezing point : No data available

**Boiling** point : 202 °C : 169 °F TCC Flash point Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : Not applicable. Vapor pressure : 1.33 hPa (at 15 °C) : No data available Relative vapor density at 20 °C Relative density : No data available Specific gravity / density : 1.025 - 1.035 g/cm<sup>3</sup>

Solubility : Water: 5.5 - 8 g/l (at  $20 \,^{\circ}\text{C}$ )

: 120.15096 g/mol

Log Pow : 1.7 Auto-ignition temperature :  $570\,^{\circ}\text{C}$ 

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 reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No 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 use, hazardous decomposition products should not be produced.

### SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

Acetophenone (98-86-2)	
LD50 oral rat	900 mg/kg
LD50 dermal rabbit	1760 mg/kg
LC50 inhalation rat (mg/l)	> 2.13 mg/l (Exposure time: 8 h)
ATE US (oral)	900 mg/kg body weight
ATE US (dermal)	1760 mg/kg body weight

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Causes serious eye damage.

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 : Not classified Specific target organ toxicity – repeated exposure : Not classified Aspiration hazard : Not classified

Symptoms/effects after eye contact : Serious damage to eyes.

### 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.

Acetophenone (98-86-2)		
LC50 fish 1	162 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])	
LC50 fish 2	155 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])	

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

Acetophenone (98-86-2)	
Log Pow	1.7

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Acetophenone (98-86-2)	
1990 Hazardous Air Pollutant (Clean Air Act)	Yes

### SECTION 13: Disposal considerations

#### 13.1. Disposal methods

Regional legislation (waste)

: U.S. - RCRA (Resource Conservation & Recovery Act) - Basis for Listing - Appendix VII. U.S. - RCRA
(Resource Conservation & Recovery Act) - Hazardous Constituents - Appendix VIII to 40 CFR 261.

U.S. - RCRA (Resource Conservation & Recovery Act) - List for Hazardous Constituents. U.S. - RCRA
(Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Universal Treatment Standards U.S.

(Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Universal Treatment Standards. U.S. - RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Water Monitoring. U.S. - RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely Toxic Wastes & Other

Hazardous Characteristics.

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

Transport document description : UN3334 Aviation regulated liquid, n.o.s., 9

UN-No.(DOT) : UN3334

Proper Shipping Name (DOT) : Aviation regulated liquid, n.o.s.

Class (DOT) : 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140

Hazard labels (DOT) : 9 - Class 9 (Miscellaneous dangerous materials)



DOT Packaging Non Bulk (49 CFR 173.xxx) : 204

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DOT Symbols : A - Material is regulated as a hazardous material only when transported by air, G - Identifies PSN

requiring a technical name

DOT Special Provisions (49 CFR 172.102) : A35 - This includes any material which is not covered by any of the other classes but which has an anosthetic parentic provider properties such that in the event of crillage or

anesthetic, narcotic, noxious or other similar properties such that, in the event of spillage or leakage on an aircraft, extreme annoyance or discomfort could be caused to crew members so as to

prevent the correct performance of assigned duties.

DOT Packaging Exceptions (49 CFR 173.xxx) : 155

DOT Quantity Limitations Passenger aircraft/rail : No limit

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49

CFR 175.75)

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger

vesse

: No limit

Other information : No supplementary information available.

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

#### Transport by sea

#### Air transport

Transport document description (IATA) : UN 3334 Aviation regulated liquid, n.o.s., 9

UN-No. (IATA) : 3334

Proper Shipping Name (IATA) : Aviation regulated liquid, n.o.s.

Class (IATA) : 9 - Miscellaneous Dangerous Goods

#### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

#### Acetophenone (98-86-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313

CERCLA RQ 5000 lb

#### 15.2. International regulations

### CANADA

#### Acetophenone (98-86-2)

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

### Acetophenone (98-86-2)

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

### **National regulations**

#### Acetophenone (98-86-2)

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 INSO (Mexican National Inventory of Chemical Substances)

Listed on CICR (Turkish Inventory and Control of Chemicals)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

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Acetophenone (98-86-2)	
State or local regulations	U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S Pennsylvania - RTK (Right to Know) List

### SECTION 16: Other information

#### Full text of H-phrases:

H227	Combustible liquid
Н302	Harmful if swallowed
Н312	Harmful in contact with skin
H318	Causes serious eye damage

NFPA health hazard

: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

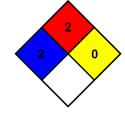
NFPA fire hazard

: 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

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