



Material Safety Data Sheet

Cyclopentanone

MSDS# 66717

Section 1 - Chemical Product and Company Identification

MSDS Name: Cyclopentanone  
Catalog Numbers: AC111530000, AC111530010, AC1115319, AC111532500, NC9710010  
Synonyms: Ketocyclopentane.

Company Identification: Acros Organics BVBA  
Janssen Pharmaceuticaaan 3a  
2440 Geel, Belgium

Company Identification: (USA) Acros Organics  
One Reagent Lane  
Fair Lawn, NJ 07410

For information in the US, call: 800-ACROS-01

For information in Europe, call: +32 14 57 52 11

Emergency Number, Europe: +32 14 57 52 99

Emergency Number US: 201-796-7100

CHEMTREC Phone Number, US: 800-424-9300

CHEMTREC Phone Number, Europe: 703-527-3887

Section 2 - Composition, Information on Ingredients

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CAS#: 120-92-3  
Chemical Name: Cyclopentanone  
%: 99+  
EINECS#: 204-435-9  
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Hazard Symbols: XI



Risk Phrases: 10 36/38

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Danger! Flammable liquid and vapor. Causes eye and skin irritation. Target Organs: Eyes, skin.

Potential Health Effects

Eye: Causes eye irritation.

Skin: Causes skin irritation. May be harmful if absorbed through the skin.

Ingestion: May cause irritation of the digestive tract. May be harmful if swallowed.

Inhalation: May cause respiratory tract irritation. May be harmful if inhaled.

Chronic: No information found.

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Get medical aid. Immediately flush skin with plenty of water for at least 15 minutes while removing

contaminated clothing and shoes.

Ingestion: Do not induce vomiting. Get medical aid.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Notes to Physician:

### Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors may form an explosive mixture with air. Vapors can travel to a source of ignition and flash back. Will burn if involved in a fire. Containers may explode in the heat of a fire. Flammable liquid and vapor.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

Autoignition Temperature: 430 deg C ( 806.00 deg F)

Flash Point: 26 deg C ( 78.80 deg F)

Explosion Limits: Lower: 1.3 Vol %

Explosion Limits: Upper: 10.8 Vol %

NFPA Rating: health: 2; flammability: 3; instability: 0;

### Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Wear a self contained breathing apparatus and appropriate personal protection. (See Exposure Controls, Personal Protection section). Remove all sources of ignition. Use a spark-proof tool. Do not let this chemical enter the environment.

### Section 7 - Handling and Storage

Handling: Use with adequate ventilation. Use spark-proof tools and explosion proof equipment. Do not get in eyes, on skin, or on clothing. Keep away from heat, sparks and flame. Avoid ingestion and inhalation.

Storage: Keep away from sources of ignition. Store in a cool, dry place. Store in a tightly closed container. Flammables-area.

### Section 8 - Exposure Controls, Personal Protection

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Cyclopentanone	none listed	none listed	none listed

OSHA Vacated PELs: Cyclopentanone: None listed

Engineering Controls:

Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

### Section 9 - Physical and Chemical Properties

Physical State: Liquid

Color: clear colorless to slightly yellow

Odor: ethereal odor

pH: Not available

Vapor Pressure: < 200 mbar @ 50 deg C

Vapor Density: Not available

Evaporation Rate: Not available

Viscosity: 1.29 mPa @ 20 deg C

Boiling Point: 130 - 131 deg C @ 760 mmHg

Freezing/Melting Point: -51 deg C ( -59.80°F)

Decomposition Temperature: Not available

Solubility in water: Negligible

Specific Gravity/Density: 0.950

Molecular Formula: C5H8O

Molecular Weight: 84.12

#### Section 10 - Stability and Reactivity

Chemical Stability:	Stable under normal temperatures and pressures. Stable under normal temperatures and pressures.
Conditions to Avoid:	Incompatible materials, ignition sources, excess heat.
Incompatibilities with Other Materials	Strong oxidizing agents, strong reducing agents, acids, strong bases, hydrazine, hydroxylamine, nitric acid, hydrogen peroxide, polymerizing initiators, hydrazine derivatives.
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide.
Hazardous Polymerization	Has not been reported.

#### Section 11 - Toxicological Information

RTECS#:	CAS# 120-92-3: GY4725000 RTECS: <b>CAS# 120-92-3:</b> Draize test, rabbit, eye: 100 mg Severe; Draize test, rabbit, skin: 500 mg/24H;
LD50/LC50:	Draize test, rabbit, skin: 500 mg Mild; Inhalation, rat: LC50 = 19500 mg/m3; Oral, mouse: LD50 = 1820 mg/kg;
Carcinogenicity:	Cyclopentanone - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Other:	See actual entry in RTECS for complete information.

#### Section 12 - Ecological Information

Ecotoxicity:	Not available
Other:	Do not empty into drains.

#### Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

#### Section 14 - Transport Information

US DOT

Shipping Name: CYCLOPENTANONE

Hazard Class: 3

UN Number: UN2245

Packing Group: III

Canada TDG

Shipping Name: Not available

Hazard Class:

UN Number:

Packing Group:

## Section 15 - Regulatory Information

### European/International Regulations

#### European Labeling in Accordance with EC Directives

Hazard Symbols: XI

Risk Phrases:

R 10 Flammable.

R 36/38 Irritating to eyes and skin.

Safety Phrases:

S 23 Do not inhale gas/fumes/vapour/spray.

#### WGK (Water Danger/Protection)

CAS# 120-92-3: 1

#### Canada

CAS# 120-92-3 is listed on Canada's DSL List

Canadian WHMIS Classifications: B2, D2B

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 120-92-3 is listed on Canada's Ingredient Disclosure List

#### US Federal

##### TSCA

CAS# 120-92-3 is listed on the TSCA Inventory.

## Section 16 - Other Information

MSDS Creation Date: 9/02/1997

Revision #6 Date 7/20/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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