

DATE: 03/30/98 ACCT: 742982001
INDEX: N/A CAT NO: AC11532500 PO NBR: N/A

PAGE: 1

**** MATERIAL SAFETY DATA SHEET ****
Cyclopentanone, 99+%
66717

**** SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION ****

MSDS Name: Cyclopentanone, 99+%
Catalog Numbers: AC11530000, AC11530010, AC11532500
Synonyms: Ketocyclopentanone; Dumasol
Company Identification: Acros Organics N.V.
One Reagent Lane
Fair Lawn, NJ 07410
For information in North America, call: 800-ACROS-01
For emergencies in the US, call CHEMTREC: 800-424-9300

**** SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS ****

CAS#	Chemical Name	%	EINECS#
120-92-3	Cyclopentanone, 99+%	99+%	204-435-9
Hazard Symbols: Xi			
Risk Phrases: 10 36/38			

**** SECTION 3 - HAZARDS IDENTIFICATION ****

EMERGENCY OVERVIEW

Appearance: clear, Flash Point: 31 deg C.
Warning! Flammable liquid. Causes skin irritation. May cause respiratory and digestive tract irritation. Causes severe eye irritation.

Target Organs: None.

Potential Health Effects

Eye: Causes severe eye irritation.

Skin: Causes skin irritation.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

Inhalation: May cause respiratory tract irritation.

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 lids. Get medical aid immediately.

Skin: Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.

Ingestion: Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cups of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation: Remove from exposure 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: Physically and chemically stable.
Treat symptomatically and supportively.

**** 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.

Extinguishing Media: Use water spray to cool fire-exposed containers. Use foam, dry chemical, or carbon dioxide. Water spray is ineffective.

Flash Point: 31 deg C (87.80 deg F)
NFPA Rating: health-2; flammability-3; reactivity-0
Explosion Limits: Lower: Not available.
Upper: Not available.

**** SECTION 6 - ACCIDENTAL RELEASE MEASURES ****

DATE: 03/30/98 ACCT: 742982001
INDEX: N/A CAT NO: AC11532500 PO NBR: N/A

PAGE: 2

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

Spills/Leaks: Absorb spill with inert material, (e.g., dry sand or earth), then place into a chemical waste container. Clean up spills immediately, observing precautions in the Protective Equipment section. Scoop up with a nonsparking tool, then place into a suitable container for disposal. Remove all sources of ignition.

**** SECTION 7 - HANDLING AND STORAGE ****

Handling: Wash thoroughly after handling. Wash hands before eating. Use with adequate ventilation. Use spark-proof tools and explosion proof equipment. Avoid breathing dust, vapor, mist, or gas. Do not get on skin or in eyes. 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 ****

Engineering Controls: Use adequate general or local, explosion-proof ventilation to keep airborne levels to acceptable levels.

Exposure Limits			
Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Cyclopentanone, 99+ none listed	none listed	none listed	none listed

OSHA Vacated PELs:
Cyclopentanone, 99+%:
No OSHA Vacated PELs are listed for this chemical.

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.

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 29CFR 1910.134. Always use a NIOSH-approved respirator when necessary.

**** SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ****

Physical State: Liquid
Appearance: clear
Odor: Ethereal or peppermint-like odor.
pH: Not available.
Vapor Pressure: 200 mbar @ 50
Vapor Density: Not available.
Evaporation Rate: Not available.
Viscosity: Not available.
Boiling Point: 130.51 deg C @ 760.00mm Hg
Melting Point: 13.51 deg C
Decomposition Temperature: Not available.
Solubility: practically insoluble in water
Specific Gravity/Density: 9510g/cm3
Molecular Formula: C5H8O
Molecular Weight: 84.12

**** SECTION 10 - STABILITY AND REACTIVITY ****

Chemical Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: High temperatures, incompatible materials, ignition sources, excess heat.
Incompatibilities with Other Materials: Strong oxidizing agents, strong bases, strong reducing agents, and acids.
Hazardous Decomposition Products: Carbon monoxide, carbon dioxide.
Hazardous Polymerization: May occur.

**** SECTION 11 - TOXICOLOGICAL INFORMATION ****

RTECS#:
CAS# 120-92-3: GY4725000
LD50/LC50:
Not available.
Carcinogenicity:
Cyclopentanone, 99+%,
Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

**** SECTION 12 - ECOLOGICAL INFORMATION ****

Ecotoxicity:
EC50 Daphnia magna 1440 mg/l Toxicity threshold: Scenedesmus quadricauda 370 mg/l; Entosiphon sulcatum 545 mg/l
Environmental Fate:
Cyclopentanone is not expected to undergo hydrolysis or photolysis in the environment. Limited data suggests that cyclopentanone should biodegrade rapidly upon acclimation in soil and water.
Other:
Biodegradation: Pure culture studies showed various isolated species of bacteria and yeast were unable to utilize cyclopentanone as a single carbon source. A single 5-day BOD screening test, which utilized activated sludge for inocula, indicates cyclopentanone biodegraded rapidly with acclimation. After a 20-day acclimation period, 95.4% COD of an initial concentration of 100 mg/l was removed in an closed bottle maintained at 200C and a pH of 7.2.

**** SECTION 13 - DISPOSAL CONSIDERATIONS ****

Dispose of in a manner consistent with federal, state, and local regulations.
RCRA D-Series Maximum Concentration of Contaminants:
RCRA D-Series Chronic Toxicity Reference Levels: None listed
RCRA F-Series: None listed.
RCRA P-Series: None listed.
RCRA U-Series: None listed.
Not listed as a material banned from land disposal according to RCRA.

**** SECTION 14 - TRANSPORT INFORMATION ****

US DOT
Shipping Name: CYCLOPENTANONE
Hazard Class: 3
UN Number: UN2245
Packing Group: III
IMO
Shipping Name: CYCLOPENTANONE
Hazard Class: 3
UN Number: 2245
Packing Group: III
IATA
Shipping Name: CYCLOPENTANONE
Hazard Class: 3
UN Number: 2245
Packing Group: III
RID/ADR
Shipping Name: CYCLOPENTANONE
Dangerous Goods Code: 3(31C)
UN Number: 2245
Canadian TDG
Shipping Name: CYCLOPENTANONE
Hazard Class: 3
UN Number: UN2245
Other Information: FLASHPOINT 30 C

**** SECTION 15 - REGULATORY INFORMATION ****

US FEDERAL
TSCA
CAS# 120-92-3 is listed on the TSCA Inventory.
Health & Safety Reporting List
None of the chemicals are on the Health & Safety Reporting List.
Chemical Test Rules
None of the chemicals in this product are under a Chemical Test Rule.
Section 12b
None of the chemicals are listed under TSCA Section 12b.
TSCA Significant New Use Rule
SAR: None of the chemicals in this material have a SNUR under TSCA.
Section 302 (RO)
None of the chemicals in this material have an RO.
Section 302 (TPQ)
None of the chemicals in this product have a TPQ.
SARA Codes
CAS # 120-92-3: acute, flammable, reactive.
Section 313
No chemicals are reportable under Section 313.

Clean Air Act:
This material does not contain any hazardous air pollutants.
This material does not contain any Class 2 Ozone depleters.
This material does not contain any Class 2 Ozone depleters.
Clean Water Act:
None of the chemicals in this product are listed as Hazardous Substances under the CWA.
None of the chemicals in this product are listed as Priority Pollutants under the CWA.
None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:
None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

Cyclopentanone, 99+%, can be found on the following state right to know lists: New Jersey, Florida, Pennsylvania, Massachusetts.

None of the chemicals in this product are listed.
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.
GK (Water Danger/Protection)
CAS# 120-92-3: 1

Canada
CAS# 120-92-3 is listed on Canada's DSL/NDSL List.
CAS# 120-92-3 is not listed on Canada's Ingredient Disclosure List.

MSDS Creation Date: 6/15/1995 Revision #2 Date: 9/02/1997

MSDS Creation Date: 6/15/1995 Revision #2 Date: 9/02/1997
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 way shall Fisher 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, however arising, even if Fisher has been advised of the possibility of such damages.