

DATE: 03/30/98

ACCT: 742982001

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CAT NO: AC155810050 PO NBR: N/A

**** MATERIAL SAFETY DATA SHEET ****

3-Pentanone, 98%
85342

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

MSDS Name: 3-Pentanone, 98%

Catalog Numbers:

AC155810000, AC155810025, AC155810050, AC155815000

Synonyms:

Diethyl ketone

Company Identification: Acros Organics N.V.

One Reagent Lane

Fairlawn, 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#
98-22-0	3-Pentanone, 98%		202-490-3

Hazard Symbols: F
Risk Phrases: 11

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

EMERGENCY OVERVIEW

Appearance: clear colourless liquid.

Target Organs: None.

Potential Health Effects

The toxicological properties of this material have not been investigated. Use appropriate procedures to prevent opportunities for direct contact with the skin or eyes and to prevent inhalation.

**** 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.

Skin:

Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion:

Do NOT induce vomiting. Give milk or water with activated charcoal if available.

Inhalation:

Remove from exposure to fresh air immediately.

Notes to Physician:

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. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media:

In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.

Autoignition Temperature: 445 deg C (833.00 deg F)

Flash Point: 13 deg C (55.40 deg F)

NFPA Rating: health-1; flammability-3; reactivity-0

Explosion Limits, Lower: 1.60 vol %

Upper: 7.70 vol %

**** 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., dry sand or earth), then place into a chemical waste container. Clean up spills immediately, observing precautions in the Protective Equipment section.

**** SECTION 7 - HANDLING and STORAGE ****

Handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

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Storage:

Store in a cool, dry place. Keep container closed when not in use. Flammables-area.

**** SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION ****

Engineering Controls:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
3-Pentanone, 98%	200 ppm ; 705 mg/m3; (-) ppm STEL: (-) mg/m3	200 ppm TWA; 705 mg/m3 TWA	none listed

OSHA Vacated PELs:

3-Pentanone, 98%:
200 ppm TWA; 705 mg/m3 TWA

Personal Protective Equipment

Eyes:

Wear safety glasses and chemical goggles if splashing is possible.

Skin:

Wear appropriate protective gloves and clothing to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to minimize contact with skin.

Respirators:

Wear a NIOSH/MSHA-approved (or equivalent) full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

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

Physical State:	Not available.
Appearance:	Not available.
Odor:	None reported.
pH:	Not available.
Vapor Pressure:	20 mbar @ 20 C
Vapor Density:	Not available.
Evaporation Rate:	Not available.
Viscosity:	0.469 mPas 20 d
Boiling Point:	102 deg C @ 760.00mm Hg
Freezing/Melting Point:	0 deg C
Decomposition Temperature:	Not available.
Solubility:	4.7 g/100ml (20 c)
Specific Gravity/Density:	0.8160g/cm3
Molecular Formula:	C5H10O
Molecular Weight:	86.13

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

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials, strong oxidants.

Incompatibilities with Other Materials:

Oxidizing agents - strong bases - reducing agents.

Hazardous Decomposition Products:

Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.

Hazardous Polymerization: Has not been reported.

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

RTECS#:

CAS# 98-22-0: SA8050000

LD50/LC50:

CAS# 98-22-0: Oral, rat: LD50 = 2140 mg/kg; Skin, rabbit: LD50 = 20 mL/kg.

Carcinogenicity:

3-Pentanone, 98% -
Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

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

Ecotoxicity:

Not available.

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

Dispose of in a manner consistent with federal, state, and local regulations.
 RCRA D-Series Maximum Concentration of Contaminants:
 None listed.
 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: DIETHYL KETONE
 Hazard Class: 3
 UN Number: 1156
 Packing Group: II

IMO

Shipping Name: DIETHYL KETONE
 Hazard Class: 3.2
 UN Number: 1156
 Packing Group: II

IATA

Shipping Name: DIETHYL KETONE
 Hazard Class: 3
 UN Number: 1156
 Packing Group: II

RID/ADR

Shipping Name: DIETHYL KETONE
 Dangerous Goods Code: 3(38)
 UN Number: 1156

Canadian TDG

Shipping Name: DIETHYL KETONE
 Hazard Class: 3
 UN Number: UN1156

Other Information: FLASHPOINT 13C

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

US FEDERAL

TSCA

CAS# 96-22-0 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
 None of the chemicals in this material have a SNUR under TSCA.

SARA

Section 302 (RQ)
 None of the chemicals in this material have an RQ.
 Section 302 (TPQ)
 None of the chemicals in this product have a TPQ.
 SARA Codes
 CAS # 96-22-0: acute, flammable.

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 1 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

3-Pentanone, 98% can be found on the following state right to know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.

California No Significant Risk Level:

None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: F

Risk Phrases:

R 11 Highly flammable.

Safety Phrases:

S 16 Keep away from sources of ignition - No

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smoking.

S 33 Take precautionary measures against static discharges.

S 9 Keep container in a well-ventilated place.

WGK (Water Danger/Protection)

CAS# 96-22-0: 1

Canada

CAS# 96-22-0 is listed on Canada's DSL/NDSL List.

This product has a WHMIS classification of B2, D2B.

CAS# 96-22-0 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

CAS# 96-22-0: OEL-AUSTRALIA:TWA 200 ppm (705 mg/m3). OEL-BELGIUM:TWA 200 ppm (705 mg/m3). OEL-DENMARK:TWA 200 ppm (700 mg/m3). OEL-FRANCE:TWA 200 ppm (705 mg/m3). OEL-THE NETHERLANDS:TWA 200 ppm (705 mg/m3). OEL-SWITZERLAND:TWA 200 ppm (705 mg/m3). OEL-UNITED KINGDOM:TWA 200 ppm (700 mg/m3). STEL 250 ppm. OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA check ACGIH TLV. OEL IN NEW ZEALAND, SINGAPORE, VIETNAM check ACGI TLV

**** SECTION 16 - ADDITIONAL INFORMATION ****

MSDS Creation Date: 3/01/1994 Revision #2 Date: 12/12/1997

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, howsoever arising, even if Fisher has been advised of the possibility of such damages.