MATERIAL SAFETY DATA SHEET

Section 1 - Chemical Product and Company Identification

MSDS Name: 2-Acetylcyclopentanone, 99%

Catalog Numbers: AC177030000, AC177030050, AC177030250

Synonyms: O-Acetylcyclopentanone.

Company Identification: Acros Organics BVBA

Janssen Pharmaceuticalaan 3a

2440 Geel, Belgium

Company Identification: (USA) Acros Organics

One Reagent Lane Fair Lawn, NJ 07410

For information in the US, call:

For information in Europe, call:

Emergency Number, Europe:

Emergency Number US:

CHEMTREC Phone Number, US:

CHEMTREC Phone Number, Europe:

800-ACROS-01

+32 14 57 52 11

201-796-7100

800-424-9300

CHEMTREC Phone Number, Europe:

703-527-3887

Section 2 - Composition, Information on Ingredients

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CAS#: 1670-46-8

Chemical Name: Cyclopentanone, 2-Acetyl-

%: 99

EINECS#: 216-797-5

Hazard Symbols: None listed

Risk Phrases: None listed

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Caution! Combustible liquid and vapor. May be harmful if swallowed. May cause central nervous system depression. May cause eye, skin, and respiratory tract irritation. Target Organs: Central nervous system.

Potential Health Effects

Eye: May cause eye irritation. May cause chemical conjunctivitis and corneal damage.

Skin: May cause irritation and dermatitis. May cause cyanosis of the extremities.

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

swallowed.

Inhalation: May cause respiratory tract irritation. The toxicological properties of this substance have not

been fully investigated. Aspiration may lead to pulmonary edema. Inhalation at high

concentrations may cause CNS depression and asphixiation.

Chronic: No information found.

Section 4 - First Aid Measures

Eyes: 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. Flush skin with plenty of water for at least 15 minutes while removing

contaminated clothing and shoes. Wash clothing before reuse.

Ingestion: Never give anything by mouth to an unconscious person. Get medical aid. Do NOT

induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or

water.

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.

Notes to Physician:

Section 5 - Fire Fighting Measures

General As in any fire, wear a self-contained breathing apparatus in pressure-demand,

Information: 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. Use water spray to keep fire-exposed containers cool. Combustible liquid. Vapors may be heavier than air. They can spread along the ground and collect in low or confined

areas. Containers may explode when heated.

Extinguishing Media:

In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam. Use water spray to cool fire-exposed containers. Use agent most appropriate to extinguish

fire.

Autoignition Not available

Temperature:

Flash Point: 72 deg C (161.60 deg F)

Explosion Not available

Limits: Lower:

Explosion Not available

Limits: Upper:

NFPA Rating: health: 1; flammability: 2; instability: 0;

Section 6 - Accidental Release Measures

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

Information:

Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable

container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Remove all sources of ignition. Use a spark-proof tool. Provide ventilation.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use

with adequate ventilation. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Keep away from heat, sparks and flame. Avoid ingestion and inhalation. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open

flames.

Storage: Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a

tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible

substances.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

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+					
Chemical Name Final PELs		ACGIH	I	NIOSH	OSHA -
	-				-
Cyclopentanone, 2-A	A none lis	sted	none	listed	none

listed | cetvl-

OSHA Vacated PELs: Cyclopentanone, 2-Acetyl-: None listed

Personal Protective Equipment

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

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 brown Odor: ketone odor pH: Not available

Vapor Pressure: Not available

Vapor Density: 4.35

Evaporation Rate: Not available Viscosity: Not available

Boiling Point: 72.0 - 75.0 deg C @ 8.00mm Hg

Freezing/Melting Point: Not available **Decomposition Temperature:** Not available Solubility in water: Not available Specific Gravity/Density: 1.0430g/cm3

Molecular Formula: C7H10O2 Molecular Weight: 126.15

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, ignition sources, dust generation, excess

Section 11 - Toxicological Information

heat, strong oxidants.

Incompatibilities with Other

Materials

Not available

Hazardous Decomposition

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

Products

Has not been reported.

Hazardous Polymerization

RTECS#: CAS# 1670-46-8: GY4728000

LD50/LC50: RTECS:

CAS# 1670-46-8: Oral, rat: LD50 = 840 uL/kg;

Carcinogenicity: Cyclopentanone, 2-Acetyl- - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA

Prop 65.

Epidemiology: No information found Teratogenicity: No information found Reproductive: No information found Neurotoxicity: No information found Mutagenicity: No information found

Other: See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Not available

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. RCRA P-Series: None listed. RCRA U-Series: None listed.

Section 14 - Transport Information

US DOT

Shipping Name: Not regulated as a hazardous material

Hazard Class: **UN Number:** Packing Group: Canada TDG

Shipping Name: Not available

Hazard Class: UN Number: Packing Group:

Section 15 - Regulatory Information

US Federal

TSCA

CAS# 1670-46-8 is listed on the TSCA Inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

None of the chemicals in this product are under a Chemical Test Rule.

Chemical Test Rules 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.

CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

SARA Section 302 **Extremely Hazardous** None of the chemicals in this product have a TPQ.

Substances 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 depletors. This material does not

contain any Class 2 Ozone depletors.

None of the chemicals in this product are listed as Hazardous Substances Clean Water Act:

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:

STATE Cyclopentanone, 2-Acetyl- is not present on state lists from CA, PA, MN,

MA. FL. or NJ.

California Prop 65

California No Significant None of the chemicals in this product are listed.

Risk Level:

European/International Regulations

European Labeling in Accordance with EC Directives Hazard Symbols:Not available Risk Phrases:

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

S 28A After contact with skin, wash immediately with plenty of water.

S 37 Wear suitable gloves.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 1670-46-8: Not available

Canada

CAS# 1670-46-8 is listed on Canada's DSL List

Canadian WHMIS Classifications: B3

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# 1670-46-8 is not listed on Canada's Ingredient Disclosure List.

Section 16 - Other Information

MSDS Creation Date: 9/02/1997 Revision #6 Date 10/03/2005

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility 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.