

Material Safety Data Sheet
3-Methyl-2-butanone, 98%

Section 1 - Chemical Product and Company Identification

MSDS Name: 3-Methyl-2-butanone, 98%
Catalog Numbers: 21877-0000, 21877-0010, 21877-0050, 21877-2500
Synonyms: Methyl isopropyl ketone, MIPK

Company Identification: Acros Organics BVBA
Janssen Pharmaceuticaaan 3a
2440 Geel, Belgium
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Company Identification: (USA)
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

CAS#	Chemical Name:	%	EINECS#
563-80-4	3-Methyl-2-butanone	98%	209-264-3

Hazard Symbols: F



Risk Phrases: 11

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Highly flammable.

Potential Health Effects

Eye: May cause eye irritation.
Skin: May cause skin irritation.
Ingestion: Poison by ingestion.
Inhalation: May cause respiratory tract irritation.
Chronic:

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

Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid immediately.

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

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. Flammable liquid and vapor.

Extinguishing Media: Use agent most appropriate to extinguish fire.

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. Remove all sources of ignition. Use a spark-proof tool.

Section 7 - Handling and Storage

Handling: Use spark-proof tools and explosion proof equipment. Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.

Storage: Keep away from heat, sparks, and flame. Store in a cool, dry place. Store in a tightly closed container. Flammables-area.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

CAS# 563-80-4:

Belgium - TWA: 200 ppm VLE; 715 mg/m³ VLE

France - VME: 200 ppm VME; 705 mg/m³ VME

Germany: 705 mg/m³ TWA

Malaysia: 200 ppm TWA; 705 mg/m³ TWA

Netherlands: 200 ppm MAC; 705 mg/m³ MAC

Spain: 200 ppm VLA-ED; 715 mg/m³ VLA-ED

Personal Protective Equipment

Eyes: Wear chemical splash goggles. Wear safety glasses and chemical goggles if splashing is possible.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to minimize contact with skin.

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: Clear liquid

Color: colorless

Odor: Not available

pH: Not available

Vapor Pressure: 55 hPa @ 20 C

Viscosity: Not available

Boiling Point: 94.0 - 95.0 deg C @ 760.00mm

Freezing/Melting Point: 0 deg C (32.00°F)

Autoignition Temperature: 427 deg C (800.60 deg F)

Flash Point: 6 deg C (42.80 deg F)

Explosion Limits: Lower: 1.80 vol %

Explosion Limits: Upper: 9.00 vol %

Decomposition Temperature: Not available

Solubility in water: 6 G/L (20°C) IN WATER

Specific Gravity/Density: .8050g/cm³

Molecular Formula: (CH₃)₂CHCOCH₃

Molecular Weight: 86.13

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: Incompatible materials, ignition sources.
Incompatibilities with Other Materials: Strong oxidizing agents, strong reducing agents, strong bases.
Hazardous Decomposition Products: Carbon monoxide, carbon dioxide.
Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTECS#: CAS# 563-80-4: EL9100000

RTECS:

CAS# 563-80-4: Draize test, rabbit, eye: 100 mg/24H Mild;

Draize test, rabbit, eye: 500 mg/24H Mild;

Draize test, rabbit, skin: 500 mg/24H Moderate;

Inhalation, mouse: LC₅₀ = 30000 mg/m³;

LD₅₀/LC₅₀: Oral, mouse: LD₅₀ = 2572 mg/kg;

Oral, mouse: LD₅₀ = 3000 mg/kg;

Oral, rat: LD₅₀ = 3078 mg/kg;

Oral, rat: LD₅₀ = 3000 mg/kg;

Skin, rabbit: LD₅₀ = 6350 mg/kg;

Carcinogenicity: 3-Methyl-2-butanone - 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

Not available

Section 13 - Disposal Considerations

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

Section 14 - Transport Information

	IATA	IMO	RID/ADR
Shipping Name:	3-METHYLBUTAN-2-ONE	3-METHYLBUTAN-2-ONE	3-METHYLBUTAN-2-ONE
Hazard Class:	3	3	3
UN Number:	2397	2397	2397
Packing Group:	II	II	II

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: F

Risk Phrases:

R 11 Highly flammable.

Safety Phrases:

S 9 Keep container in a well-ventilated place.

S 16 Keep away from sources of ignition - No smoking.

S 33 Take precautionary measures against static discharges.

WGK (Water Danger/Protection)

CAS# 563-80-4: 1

Canada

CAS# 563-80-4 is listed on Canada's DSL List

US Federal

TSCA

CAS# 563-80-4 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date: 7/16/1996

Revision #0 Date Original.

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.
