

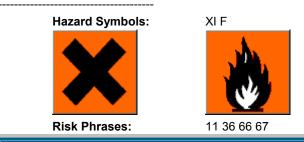
Fisher Scientific MATERIAL SAFETY DATA SHEET

A Fisher Scientific International Company

	Section 1 - Chemical Pro	oduct and Company Identification			
	: 2-Butanone	AC140570025 AC140570254 AC140570250			
Catalog Numbers:	AC149670000, AC149670010, AC149670025, AC149670051, AC149670250, AC213010000 AC213010000, AC213015000, AC327910000, AC327910010, AC389430000, AC389430010 AC389430010, AC389430025, AC389570000, AC389570010, AC389570025				
Synonyms:	Methyl ethyl ketone; MEK				
Company Identification: Company Identification: (USA)		Acros Organics BVBA Janssen Pharmaceuticalaan 3a 2440 Geel, Belgium Acros Organics One Reagent Lane Fair Lawn, NJ 07410			
For informat	ion in the US, call:	800-ACROS-01			
For informat	ion 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#:	78-93-3
Chemical Name:	2-Butanone
%:	>99%
EINECS#:	201-159-0



Section 3 - Hazards Identification

# EMERGENCY OVERVIEW

Not available Target Organs: Central nervous system, liver, respiratory system, eyes, skin. tial Usalth Effect

Potential H	eaith Effects
Eye:	Causes eye irritation. May result in corneal injury.
Skin:	Causes mild skin irritation. May be absorbed through the skin. Repeated or prolonged exposure may cause drying and cracking of the skin.
Ingestion:	May cause gastrointestinal irritation with nausea, vomiting and diarrhea.
Inhalation:	May cause respiratory tract irritation. Inhalation of vapors may cause drowsiness and dizziness.
Chronic:	Chronic inhalation may cause effects similar to those of acute inhalation.

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. Do NOT allow victim to rub eyes or keep eyes closed.					
Skin:	Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.					
Ingestion:	Get medical aid. Wash mouth out with water.					
Inhalation:	Remove from exposure and move to fresh air immediately. If not breathing, give article					
Notes to	respiration. If breathing is difficult, give oxygen. Get medical aid. Treat symptomatically and supportively.					
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. Vapors can travel t a source of ignition and flash back. Will burn if involved in a fire. Flammable liquid and vapor.					
Extinguishing Media:	Use water spray, dry chemical, carbon dioxide, or chemical foam.					
	<b>tion</b> 404 deg C(759.20 deg F) <b>ure</b> :					
-	<b>bint:</b> -7 deg C ( 19.40 deg F)					
Explosion Lim	nits: 1.8 Vol % wer:					
Explosion Lim	nits: 11.5 Vol % per:					
	ing: health: 1; flammability: 3; instability: 0;					
	Section 6 - Accidental Release Measures					
General	Section 6 - Accidental Release Measures Use proper personal protective equipment as indicated in Section 8.					
General Information: Spills/Leaks:	Use proper personal protective equipment as indicated in Section 8. Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable					
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I	STEL		mg/m3 TWA	3000	mg/m3			
TWA 			ppm IDLH					
 +	+		-+					
•	+							
	PELs: 2-Butanone: 200 ppr ective Equipment	m TWA; 590 mg/m	3 IWA					
•	Vear chemical splash goggle Vear appropriate protective							
	Vear appropriate protective		-					
	ollow the OSHA respirator r							
	exposure limits are exceeded							
	Section 9 - Ph	ysical and Chemi	cal Properties					
	<b>D</b> I		• 1					
	Physic	al State: Clear liq Color: colorless						
			odor - characteris	tic odor				
	Vapor P	<b>pH:</b> Not avai Pressure: 105mba						
	Vapor	Density: 2.5						
	-	ion Rate: 2.7 (Ethe iscosity: 0.42 mP						
	Boilir	ng Point: 80 deg (	C @760mmHg ( 17	6.00°F)				
Freezing/Melting Point: -87 deg C ( -124.60°F)								
	-							
	Decomposition Temp Solubility	<b>berature:</b> Not avai <b>in water:</b> 290 g/l (	lable					
	Decomposition Temp Solubility Specific Gravity/	<b>perature:</b> Not avai <b>in water:</b> 290 g/l ( / <b>Density:</b> 0.806	lable					
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## Section 12 - Ecological Information

**Ecotoxicity:** 

Not available

## Section 13 - Disposal Considerations

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

Section 14 - Transport Information

## US DOT

Shipping Name: ETHYL METHYL KETONE Hazard Class: 3 UN Number: UN1193 Packing Group: II Canada TDG Shipping Name: Not available Hazard Class: UN Number: Packing Group: USA RQ: CAS# 78-93-3: 5000 lb final RQ; 2270 kg final RQ

# **Section 15 - Regulatory Information**

# **European/International Regulations**

European Labeling in Accordance with EC Directives

Hazard Symbols: XI F

# **Risk Phrases:**

- R 11 Highly flammable.
- R 36 Irritating to eyes.
- R 66 Repeated exposure may cause skin dryness or cracking.
- R 67 Vapours may cause drowsiness and dizziness.

## Safety Phrases:

- S 9 Keep container in a well-ventilated place.
- S 16 Keep away from sources of ignition No smoking.

# WGK (Water Danger/Protection)

CAS# 78-93-3: 1

#### Canada

CAS# 78-93-3 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# 78-93-3 is listed on Canada's Ingredient Disclosure List

# **US Federal**

TSCA

CAS# 78-93-3 is listed on the TSCA Inventory.

**Section 16 - Other Information** 

# MSDS Creation Date: 4/27/1999 Revision #4 Date 4/13/2006

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.