

MSDS for SOLID BURNING 2hr Chafing Fuel

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

SOLID BURNING GEL

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

MSDS Name: SOLID BURNING GEL

Catalog Numbers:

18197-0000, 18197-0010, 18197-0025, S73985-1, S73985-2, S73985-3, S73985-4

Synonyms:

Company Identification (Europe): Acros Organics BVBA

Janssen Pharmaceuticaaan 3a

2440 Geel, Belgium

Company Identification (USA): Acros Organics

One Reagent Lane

Fairlawn, NJ 07410

For information in North America, call: 800-ACROS-01

For information in Europe, call: 0032(0) 14575211

For emergencies in the US, call CHEMTREC: 800-424-9300

For emergencies in Europe, call: 0032(0) 14575299

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

CAS#	Chemical Name	%	EINECS#
64-17-5	Ethyl alcohol	75	200-578-6
67-56-1	Methyl alcohol	5	200-659-6

Risk Phrases: 11

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

EMERGENCY OVERVIEW

Highly flammable.

Potential Health Effects

Eye:

May cause eye irritation. Causes redness and pain.

Skin:

May cause skin irritation. Contact with the skin defats the skin.

Ingestion:

Symptoms may include: headache, excitement, fatigue, nausea,

vomiting, stupor, and coma. May cause muscle tremor and impaired motor function. May cause cardiac disturbances.

Inhalation:

May cause irritation of the respiratory tract with burning pain in the nose and throat, coughing, wheezing, shortness of breath and pulmonary edema. May cause central nervous system effects including vertigo, anxiety, depression, muscle incoordination, and emotional instability. May cause narcotic effects in high concentration.

Chronic:

Not available.

**** SECTION 4 - FIRST AID MEASURES ****

Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids.

Skin:

Flush skin with plenty of soap and 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 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 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. Containers may explode in the heat of a fire.

Flammable liquid and vapor.

Extinguishing Media:

Use water spray, dry chemical, carbon dioxide, or chemical foam.

**** 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.

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

Handling:

Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin
and eyes. Take precautionary measures against static discharges.

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 ventilation to keep airborne concentrations low.

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 or European

Standard EN166.

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 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

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

Physical State:	Clear liquid
Appearance:	colourless
Odor:	alcohol-like
pH:	Not available.
Vapor Pressure:	59 mbar @20 deg C
Viscosity:	1.2 mPas 20 deg C
Boiling Point:	78 deg C @ 760 mm Hg

Freezing/Melting Point: -144 deg C

Autoignition Temperature: 370 deg C

Flash Point: 32 deg C

Explosion Limits, lower: 4.00 vol %

Explosion Limits, upper: 19.00 vol %

Decomposition Temperature:

Solubility in water: Miscible.

Specific Gravity/Density: .7890

Molecular Formula: C₂H₅OH

Molecular Weight: 46.06

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

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials, ignition sources.

Incompatibilities with Other Materials:

Oxidizing agents, reducing agents, acids, acid chlorides, alkali
metals, acid anhydrides.

Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide.

Hazardous Polymerization: Will not occur.

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

RTECS#:

CAS# 64-17-5: KQ6300000

CAS# 67-56-1: PC1400000

CAS# 78-93-3: EL6475000

LD50/LC50:

CAS# 64-17-5: Draize test, rabbit, eye: 500 mg Severe; Draize test,

rabbit, eye: 500 mg/24H Mild; Draize test, rabbit, skin: 20 mg/24H

Moderate; Inhalation, mouse: LC50 = 39 gm/m³/4H; Inhalation, rat:

LC50 = 20000 ppm/10H; Oral, mouse: LD50 = 3450 mg/kg; Oral, rabbit:

LD50 = 6300 mg/kg; Oral, rat: LD50 = 7060 mg/kg.

CAS# 67-56-1: Draize test, rabbit, eye: 40 mg Moderate; Draize test,

rabbit, eye: 100 mg/24H Moderate; Draize test, rabbit, skin: 20

mg/24H Moderate; Inhalation, rat: LC50 = 64000 ppm/4H; Oral, mouse:

LD50 = 7300 mg/kg; Oral, rabbit: LD50 = 14200 mg/kg; Oral, rat: LD50

= 5628 mg/kg; Skin, rabbit: LD50 = 15800 mg/kg.

CAS# 78-93-3: Draize test, rabbit, skin: 500 mg/24H Moderate; Draize

test, rabbit, skin: 402 mg/24H Mild; Inhalation, mouse: LC50 = 32

gm/m³/4H; Inhalation, rat: LC50 = 23500 mg/m³/8H; Oral, mouse: LD50 =

4050 mg/kg; Oral, rat: LD50 = 2737 mg/kg; Skin, rabbit: LD50 = 6480

mg/kg.

Carcinogenicity:

Ethyl alcohol -

ACGIH: A4 - Not Classifiable as a Human Carcinogen

Methyl alcohol -

Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Methyl ethyl ketone -

Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Other:

See actual entry in RTECS for complete information.

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

Ecotoxicity:

Fish: *Leuciscus idus*: LC50: 8140 mg/l; 48 h; .Fish: Guppy: LC50: 11

g/l; 17 d; .Daphnia: EC50: 9268 - 14221 mg/l; 48 h; .Bacteria:

Pseudomonas putida: EC5: 6500 mg/l; 16 h; .log Pow = -0.3BOD: 0.93

- 1.67

Other

Biodegradable.

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

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

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

IATA

Shipping Name: SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.

Hazard Class: 4.1

UN Number: 3175

Packing Group: II

IMO

Shipping Name: SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S

Hazard Class: 4.1

UN Number: 3175

Packing Group: II

RID/ADR

Shipping Name: SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.

Hazard Class: 4.1

UN Number: 3175

Packing group: 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 7 Keep container tightly closed.

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

WGK (Water Danger/Protection)

CAS# 64-17-5: 0

CAS# 67-56-1: 1

CAS# 78-93-3: 1

United Kingdom Occupational Exposure Limits

CAS# 64-17-5: OES-United Kingdom, TWA 1000 ppm TWA; 1920 mg/m³ TWA

CAS# 67-56-1: OES-United Kingdom, TWA 200 ppm TWA; 266 mg/m³ TWA

CAS# 67-56-1: OES-United Kingdom, STEL 250 ppm STEL; 333 mg/m³ STEL

CAS# 78-93-3: OES-United Kingdom, TWA 200 ppm TWA; 600 mg/m³ TWA

CAS# 78-93-3: OES-United Kingdom, STEL 300 ppm STEL; 899 mg/m³ STEL

Canada

CAS# 64-17-5 is listed on Canada's DSL List.

CAS# 67-56-1 is listed on Canada's DSL List.

CAS# 78-93-3 is listed on Canada's DSL List.

CAS# 64-17-5 is listed on Canada's Ingredient Disclosure List.

CAS# 67-56-1 is listed on Canada's Ingredient Disclosure List.

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

Exposure Limits

CAS# 64-17-5: OEL-AUSTRALIA:TWA 1000 ppm (1900 mg/m³)

OEL-BELGIUM:TWA 1000 ppm (1880 mg/m³)

OEL-CZECHOSLOVAKIA:TWA 1000 mg/m³;STEL 5000 mg/m³

OEL-DENMARK:TWA 1000 ppm (1900 mg/m³)

OEL-FINLAND:TWA 1000 ppm (1900 mg/m³);STEL 1250 ppm (2400 mg/m³)

OEL-FRANCE:TWA 1000 ppm (1900 mg/m³);STEL 5000 pp

OEL-GERMANY:TWA 1000 ppm (1900 mg/m³)

OEL-HUNGARY:TWA 1000 mg/m³;STEL 3000 mg/m³

OEL-THE NETHERLANDS:TWA 1000 ppm (1900 mg/m³)

OEL-THE PHILIPPINES:TWA 1000 ppm (1900 mg/m³)

OEL-POLAND:TWA 1000 mg/m³

OEL-RUSSIA:STEL 1000 mg/m³

OEL-SWEDEN:TWA 1000 ppm (1900 mg/m³)

OEL-SWITZERLAND:TWA 1000 ppm (1900 mg/m³)

OEL-THAILAND:TWA 1000 ppm (1900 mg/m³)

OEL-TURKEY:TWA 1000 ppm (1900 mg/m³)

OEL-UNITED KINGDOM:TWA 1000 ppm (1900 mg/m³) JAN9

OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA check ACGIH TLV

OEL IN NEW ZEALAND, SINGAPORE, VIETNAM check ACGI TLV

CAS# 67-56-1: OEL-ARAB Republic of Egypt:TWA 200 ppm (260 mg/m³);Skin

CAS# 78-93-3: OEL-AUSTRALIA:TWA 150 ppm (445 mg/m³);STEL 300 ppm (890 mg/m³)

OEL-AUSTRIA:TWA 200 ppm (590 mg/m³)

OEL-BELGIUM:TWA 200 ppm (590 mg/m³);STEL 300 ppm (885 mg/m³)

OEL-DENMARK:TWA 100 ppm (290 mg/m³);Skin

OEL-FINLAND:TWA 150 ppm (440 mg/m³);STEL 190 ppm;Skin

OEL-FRANCE:TWA 200 ppm (600 mg/m³);Skin

OEL-GERMANY:TWA 200 ppm (590 mg/m³)

OEL-HUNGARY:TWA 200 mg/m³;STEL 600 mg/m³

OEL-INDIA:TWA 200 ppm (590 mg/m³);STEL 300 ppm (885 mg/m³)

OEL-JAPAN:TWA 200 ppm (590 mg/m³)

OEL-THE NETHERLANDS:TWA 200 ppm (590 mg/m³)

OEL-THE PHILIPPINES:TWA 200 ppm (590 mg/m³)

OEL-POLAND:TWA 200 mg/m³

OEL-RUSSIA:TWA 200 ppm;STEL 200 mg/m³

OEL-SWEDEN:TWA 50 ppm (150 mg/m³);STEL 100 ppm (300 mg/m³)

OEL-SWITZERLAND:TWA 200 ppm (590 mg/m³);STEL 400 ppm

OEL-TURKEY:TWA 200 ppm (590 mg/m3)

OEL-UNITED KINGDOM:TWA 200 ppm (590 mg/m3);STEL 300 ppm

OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA check ACGIH TLV

OEL IN NEW ZEALAND, SINGAPORE, VIETNAM check ACGI TLV

US FEDERAL

TSCA

CAS# 64-17-5 is listed on the TSCA inventory.

CAS# 67-56-1 is listed on the TSCA inventory.

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

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

MSDS Creation Date: 7/16/1996 Revision #1 Date: 4/05/2002

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 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.
