

EN

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

Benzyltrimethylammonium hydroxide, 40 wt% solution in methanol

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

MSDS Name: Benzyltrimethylammonium hydroxide, 40 wt% solution in methanol

Catalog Numbers:

10620-0000, 10620-0010, 10620-0050, 10620-2500

Synonyms:

Triton B

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#	Haz Symbols	Risk Phrases
67-56-1	Methanol		200-659-6	F T 11 23/24/25	39/23/24/25
100-85-6	Benzyltrimethylammonium hydroxide	40 wt%	202-895-5	C 35	

Text for R-phrases: see Section 16

Hazard Symbols: T F

Risk Phrases: 11 23/24/25 34 39/23/24/25

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

EMERGENCY OVERVIEW

Highly flammable. Toxic by inhalation, in contact with skin and if swallowed. Causes burns. Toxic : danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed. Hygroscopic (absorbs moisture from the air).

Potential Health Effects

Eye:

Causes eye burns.

Skin:

Causes skin burns. Toxic in contact with skin.

Ingestion:

Poison by ingestion. Causes gastrointestinal tract burns. Ingestion can cause blurred vision, narrowing of the visual field, or blindness.

Inhalation:

Causes chemical burns to the respiratory tract. Toxic if inhaled.

Chronic:

Not available.

**** 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 immediately.

Skin:

Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion:

If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid immediately. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

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. Will burn if involved in a fire. Flammable liquid and vapor.

Extinguishing Media:

In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant 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. Use a spark-proof tool.

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

Handling:

Use spark-proof tools and explosion proof equipment. Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Use only in a chemical fume hood.

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 general or local explosion-proof ventilation to keep airborne levels to acceptable levels.

Personal Protective Equipment

Eyes:

Wear chemical goggles.

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

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

Physical State: liquid
Color: clear slightly yellow
Odor: Not available.
pH: Not available.
Vapor Pressure: Not available.
Viscosity: Not available.
Boiling Point: 65 deg C @760mmHg
Freezing/Melting Point: -98 deg C
Autoignition Temperature: Not available.
Flash Point: 15 deg C (59.00 deg F)
Explosion Limits, lower: 5.5 vol %
Explosion Limits, upper: 36.5 vol %
Decomposition Temperature:
Solubility in water: Miscible.
Specific Gravity/Density: .9500g/cm3
Molecular Formula: C10H17NO
Molecular Weight: 167.25

**** 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, acids.

Hazardous Decomposition Products:

Nitrogen oxides, carbon monoxide, carbon dioxide.

Hazardous Polymerization: Will not occur.

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

RTECS#:

CAS# 67-56-1: PC1400000

CAS# 100-85-6: B08575000

LD50/LC50:

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, rabbit: LC50 = 81000 mg/m3/14H; Inhalation, rat: LC50 = 64000 ppm/4H; Oral, mouse: LD50 = 7300 mg/kg; Oral, rabbit: LD50 = 14200 mg/kg; Oral, rat: LD50 = 5600 mg/kg; Skin, rabbit: LD50 = 15800 mg/kg.

CAS# 100-85-6.

Carcinogenicity:

Methanol -

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

Benzyltrimethylammonium hydroxide -

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

See actual entry in RTECS for complete information.

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

Ecotoxicity:

logPOW: -0.7

Other

Readily biodegradable.

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

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

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

IATA

Shipping Name: FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S.*

Hazard Class: 3
UN Number: 3286
Packing Group: II

IMO

Shipping Name: FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S.
Hazard Class: 3
UN Number: 3286
Packing Group: II

RID/ADR

Shipping Name: FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S.
Hazard Class: 3
UN Number: 3286
Packing group: II

USA RQ: CAS# 67-56-1: 5000 lb final RQ; 2270 kg final RQ

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

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: T F

Risk Phrases:

R 11 Highly flammable.
R 23/24/25 Toxic by inhalation, in contact with skin
and if swallowed.
R 34 Causes burns.
R 39/23/24/25 Toxic : danger of very serious
irreversible effects through inhalation, in contact
with skin and if swallowed.

Safety Phrases:

S 7 Keep container tightly closed.
S 16 Keep away from sources of ignition - No
smoking.
S 26 In case of contact with eyes, rinse immediately
with plenty of water and seek medical advice.
S 28A After contact with skin, wash immediately with
plenty of water.
S 36/37/39 Wear suitable protective clothing, gloves
and eye/face protection.
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# 67-56-1: 1
CAS# 100-85-6: 2

United Kingdom Occupational Exposure Limits

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

United Kingdom Maximum Exposure Limits

Canada

CAS# 67-56-1 is listed on Canada's DSL List.
CAS# 100-85-6 is listed on Canada's DSL List.
CAS# 67-56-1 is listed on Canada's Ingredient Disclosure List.
CAS# 100-85-6 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

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

US FEDERAL

TSCA

CAS# 67-56-1 is listed on the TSCA inventory.
CAS# 100-85-6 is listed on the TSCA inventory.

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

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

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.
