

Back to a,a,a-Trifluorotoluene, 99+ %

Material Safety Data Sheet
Alpha,alpha,alpha-trifluorotoluene, 99+%

ACC# 07328

Section 1 - Chemical Product and Company Identification

MSDS Name: Alpha,alpha,alpha-trifluorotoluene, 99+%
Catalog Numbers: AC139770000, AC139770050, AC139770500, AC139775000
Synonyms: Benzotrifluoride
Company Identification:
Acros Organics N.V.
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 outside the US, call: 0032(0) 14575299

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
98-08-8	a,a,a-Trifluorotoluene, 99+ %		202-635-0

Hazard Symbols: F N
Risk Phrases: 11 51/53

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: clear colourless liquid.
Target Organs: None.

Potential Health Effects

The toxicological properties of this material have not been investigated. Use appropriate procedures to prevent opportunities for direct contact with the skin or eyes and to prevent inhalation.

Section 4 - First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids.
Get medical aid immediately.
Skin: Get medical aid. Flush skin with plenty of soap and 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.
Do NOT induce vomiting. Allow the victim to rinse his mouth and then to drink 2-4 cupfuls of water, and seek medical advice.
Inhalation: Get medical aid immediately. Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
Notes to Physician: Treat symptomatically and supportively.

Section 5 - Firefighting 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.
Extinguishing Media: Use agent most appropriate to extinguish fire.
Autoignition Temperature: 620 deg C (1,148.00 deg F)
Flash Point: 12 deg C (53.60 deg F)
NFPA Rating: health-3; flammability-3; reactivity-1 Explosion Limits, Lower: Not available. Upper: Not available.

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., dry sand or earth), then place into a chemical waste container. Clean up spills immediately, observing precautions in the Protective Equipment section.

Section 7 - Handling and Storage

Handling: Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Avoid contact with heat, sparks and flame. 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. Flammables-area.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels.
Exposure Limits

Chemical Name

ACGIH

NIOSH

OSHA - Final PELs

1,1,1-Trifluorotoluene, 99+ %
none listed

none listed

none listed

OSHA Vacated PELs: 1,1,1-Trifluorotoluene, 99+ %: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

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

Skin: Wear appropriate protective gloves and clothing to prevent skin exposure. Wear appropriate protective

gloves to prevent skin exposure.

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

Respirators: A respiratory protection program that meets OSHA's 29 CFR '1910.134 and ANSI Z88.2 requirements

or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

Wear a

NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode

with emergency escape provisions.

Section 9 - Physical and Chemical Properties

Physical State: Not available.

Appearance: Not available.

Odor: None reported.

pH: Not available.

Vapor Pressure: 42.8 hPa @ 20 C

Vapor Density: Not available.

Evaporation Rate:

Viscosity: Not available.

Boiling Point: 102760.00 deg C

Freezing/Melting Point:-29 deg C

Decomposition Temperature:Not available.

Solubility: soluble in many organic solvents

Specific Gravity/Density:1.1990g/cm³

Molecular Formula:C₇H₅F₃

Molecular Weight:

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, strong oxidants.

Incompatibilities with Other Materials: Strong bases - strong oxidizing agents - strong reducing agents.

Hazardous Decomposition Products: Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide,

hydrogen fluoride.

Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTECS#:
 CAS# 98-08-8: XT9450000
 LD50/LC50:
 CAS# 98-08-8:
 Inhalation, mouse: LC50 =92240 mg/m³/2H;
 Inhalation, rat: LC50 =70810 mg/m³/4H;
 Oral, mouse: LD50 = 10000 mg/kg;
 Oral, rat: LD50 = 15 gm/kg;
 Carcinogenicity:
 CAS# 98-08-8: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Section 12 - Ecological Information

Ecotoxicity: Not available.

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.
 RCRA D-Series Maximum Concentration of Contaminants: None listed.
 RCRA D-Series Chronic Toxicity Reference Levels: None listed.
 RCRA F-Series: None listed.
 RCRA P-Series: None listed.
 RCRA U-Series: None listed.

Section 14 - Transport Information

	US DOT				
		IATA			
			RID/ADR		
				IMO	
					Canada TDG
Shipping					
Name:	BENZOTRIFLUORIDE				
		BENZOTRIFLUORIDE			
			BENZOTRIFLUORIDE		
				BENZOTRIFLUORIDE	
					BENZOTRIFLUORIDE
Hazard					
Class:	3				
		3			
			3(3B)		
				3.2	
					3
UN					
Number:	UN2338				
		UN2338			
			UN2338		
				UN2338	

UN2338

Packing
Group:
II

II

II

II

Additional
Info:

FLASHPOINT 12 C

Section 15 - Regulatory Information

US FEDERAL

TSCA

CAS# 98-08-8 is listed on the TSCA inventory.

Health & Safety Reporting List

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

Chemical Test Rules

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

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.

SARA

Section 302 (RQ)

None of the chemicals in this material have an RQ.

Section 302 (TPQ)

None of the chemicals in this product have a TPQ.

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.

Clean Water Act:

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

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 98-08-8 can be found on the following state right to know lists: New Jersey, Florida, Pennsylvania, Massachusetts.

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

European/International

Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

F N

Risk Phrases:

R 11 Highly flammable. R 51/53 Toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment.

Safety Phrases:

S 16 Keep away from sources of ignition - No smoking. S 23 Do not inhale gas/fumes/vapour/spray. S 61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

WGK (Water Danger/Protection)

CAS# 98-08-8: 1

Canada

None of the chemicals in this product are listed on the DSL/NDSL list. This product does not have a WHMIS classification.

CAS# 98-08-8 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

CAS# 98-08-8: OEL-RUSSIA:STEL 100 mg/m³

Section 16 - Additional Information

MSDS Creation Date: 3/01/1994

Revision #1 Date: 3/04/1996

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.

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