

Material Safety Data Sheet

1,1,1-Trichlorotrifluoroethane, 99%

MSDS# 04880

Section 1 - Chemical Product and Company Identification

MSDS Name: 1,1,1-Trichlorotrifluoroethane, 99%

Catalog Numbers: AC157130000, AC157130100, AC157130500

Synonyms:

Company Identification:

Acros Organics BVBA

Janssen Pharmaceuticalaan 3a

2440 Geel, Belgium

Acros Organics

Company Identification: (USA)

One Reagent Lane

Fair Lawn, NJ 07410

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#: 354-58-5

Chemical Name: 1,1,1-Trichlorotrifluoroethane

%· 99

EINECS#: 206-564-6

Hazard Symbols: None listed Risk Phrases: None listed

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: clear colourless Target Organs: None.

Potential Health Effects

The toxicological properties of this substance have not been fully investigated.

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.

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

Ingestion: Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Inhalation: Remove from exposure and move to fresh air immediately.

Notes to Physician:

Information:

Section 5 - Fire Fighting Measures

General As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH

(approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be

generated by thermal decomposition or combustion.

Extinguishing In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam. Media:

Autoignition Not available Temperature:

Flash Point: Not available

Explosion Limits: Not available Lower:

Explosion Limits: Not available Upper:

NFPA Rating: NFPA Rating:

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. Clean up spills immediately, observing precautions in the Protective Equipment section.

Section 7 - Handling and Storage

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, Handling: wash unoroughly area handling: skin, and clothing. Avoid ingestion and inhalation.

Storage: Store in a cool, dry place. Keep container closed when not in use.

Section 8 - Exposure Controls, Personal Protection

| ++ | ACGIH | NIOSH | ++ OSHA - Final PELs |
|---------------------------------------|------------|-------------|--------------------------|
| 1,1,1-Trichlorotrif nd luoroethane | one listed | none listed | none listed |
| ++- | | + | ++ |

OSHA Vacated PELs: 1,1,1-Trichlorotrifluoroethane: None listed

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

Personal Protective Equipment

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

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

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

Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the Respirators:

positive pressure mode with emergency escape provisions.

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Color: clear, colorless Odor: None reported.

pH: Not available

Vapor Pressure: 360 mm Hg @ 25 C

Vapor Density: Not available Evaporation Rate: Not available

Viscosity: 0.7 cP 25.00 deg C

Boiling Point: 46 deg C @ 760.00mmHg (114.80°F)

Freezing/Melting Point: 14 deg C (57.20°F)

Decomposition Temperature: Not available

Solubility in water: insoluble Specific Gravity/Density: 1.5790g/cm3 Molecular Formula: C2Cl3F3 Molecular Weight: 187.38

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, strong oxidants.

Incompatibilities with Other

Materials

Not available

Hazardous Decomposition

Hydrogen chloride, phosgene, carbon monoxide, carbon monoxide, carbon dioxide,

Products hydrogen fluoride gas.

Hazardous Polymerization Has not been reported.

Section 11 - Toxicological Information

RTECS#: CAS# 354-58-5: KJ3975000

RTECS:

LD50/LC50: CAS# **354-58-5**: Inhalation, rat: LC50 = 13 pph/15M;

Carcinogenicity: 1,1,1-Trichlorotrifluoroethane - 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

Other: No information 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: Not regulated as a hazardous material

Hazard Class: UN Number: Packing Group: Canada TDG

Shipping Name: Not available

Hazard Class: UN Number: Packing Group:

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:Not available

Risk Phrases:

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 354-58-5: 2

Canada

CAS# 354-58-5 is listed on Canada's DSL List

Canadian WHMIS Classifications: 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# 354-58-5 is not listed on Canada's Ingredient Disclosure List.

TSCA

CAS# 354-58-5 is listed on the TSCA Inventory.

Section 16 - Other Information MSDS Creation Date: 9/02/1997 Revision #6 Date 7/20/2009

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.
