

FT6508 Trifluoroacetic acid99%RG,025LFL

**00000020420**

Version 1.0

Revision Date 10/02/2016

Print Date 10/17/2019

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : Trifluoroacetic acid

Number : 00000020420

Product Use Description : Laboratory chemicals

Manufacturer or supplier's details : Honeywell International Inc.  
1953 South Harvey Street  
Muskegon, MI 49442

For more information call : 1-800-368-0050  
+1-231-726-3171  
(Monday-Friday, 9:00am-5:00pm)

**In case of emergency call : Medical: 1-800-498-5701 or +1-303-389-1414**  
**: Transportation (CHEMTREC): 1-800-424-9300 or**  
**+1-703-527-3887**  
:  
: (24 hours/day, 7 days/week)

**SECTION 2. HAZARDS IDENTIFICATION****Emergency Overview**

Form : liquid

Color : colourless

Odor : stinging

**Classification of the substance or mixture**

Classification of the substance or mixture : Acute toxicity, Category 4, Inhalation  
Skin corrosion, Category 1A  
Serious eye damage, Category 1

**GHS Label elements, including precautionary statements**

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Symbol(s)

:



Signal word

: Danger

Hazard statements

: Causes severe skin burns and eye damage.  
Harmful if inhaled.

Precautionary statements

: **Prevention:**  
Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
Wash skin thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves/protective clothing/eye protection/face protection.**Response:**IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Immediately call a POISON CENTER/doctor.  
Wash contaminated clothing before reuse.**Storage:**

Store locked up.

**Disposal:**

Dispose of contents/ container to an approved waste disposal plant.

Hazards not otherwise classified

: Inhaled corrosive substances can lead to a toxic oedema of the lungs.

**Carcinogenicity**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.

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**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**Formula : C<sub>2</sub>HF<sub>3</sub>O<sub>2</sub>

Chemical nature : Substance

Chemical name	CAS-No.	Concentration
Trifluoroacetic acid	76-05-1	100.00 %

**SECTION 4. FIRST AID MEASURES**

General advice : First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing immediately.

Inhalation : When inhaled remove to fresh air and seek medical aid.

Skin contact : Wash off immediately with plenty of water for at least 15 minutes. Call a physician immediately.

Eye contact : Protect unharmed eye. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately.

Ingestion : Rinse mouth with water. Do NOT induce vomiting. Call a physician immediately.

**SECTION 5. FIREFIGHTING MEASURES**Suitable extinguishing media : Foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry powder

Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

Specific hazards during firefighting : Fire may cause evolution of:  
Hydrogen fluoride  
Carbon oxides

Special protective equipment : Wear an approved positive pressure self-contained breathing

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for firefighters apparatus in addition to standard fire fighting gear.

Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions : Evacuate personnel to safe areas.  
Provide adequate ventilation.  
Wear personal protective equipment. Unprotected persons must be kept away.

Environmental precautions : Do not flush into surface water or sanitary sewer system.  
Should not be released into the environment.

Methods for cleaning up : Soak up with inert absorbent material.  
Sweep up and shovel into suitable containers for disposal.

**SECTION 7. HANDLING AND STORAGE****Handling**

Handling : Wear personal protective equipment.  
Use only in well-ventilated areas.  
Use only acid resistant equipment.  
Protect from atmospheric moisture and water.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

**Storage**

Requirements for storage areas and containers : Store in original container.  
Keep containers tightly closed in a dry, cool and well-ventilated place.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Protective measures : Ensure that eyewash stations and safety showers are close to the workstation location.

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Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment. Do not breathe vapours or spray mist.

- Engineering measures : Use with local exhaust ventilation.
- Eye protection : Safety goggles
- Hand protection : Impervious butyl rubber gloves  
Gloves must be inspected prior to use.  
Replace when worn.
- Skin and body protection : acid-proof protective clothing
- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.
- Hygiene measures : Take off all contaminated clothing immediately.  
Remove and wash contaminated clothing before re-use.  
Keep working clothes separately.  
Wash hands before breaks and at the end of workday.  
When using do not eat or drink.

**Exposure Guidelines**

Contains no substances with occupational exposure limit values.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- Physical state : liquid
- Color : colourless
- Odor : stinging
- pH : Note: acidic
- Melting point/range : -15 °C  
Method: 92/69/EEC, A.1
- Boiling point/boiling range : 72 °C at 1,013 hPa  
Method: 92/69/EEC, A.2
- Flash point : > 212 °F (> 100 °C)  
Method: 92/69/EEC, A.9

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Lower explosion limit : Note: Not applicable

Upper explosion limit : Note: Not applicable

Vapor pressure : 124 hPa  
at 20 °C(68 °F)Method: 92/69/EEC, A.4

158 hPa  
at 25 °C(77 °F)Method: 92/69/EEC, A.4

1,390 hPa  
at 80 °C(176 °F)Method: 92/69/EEC, A.4

Density : ca. 1.48 g/cm<sup>3</sup> at 20 °C

Water solubility : 1,000 g/l at 20 °C

Partition coefficient:  
n-octanol/water : log Pow: -2.1

Ignition temperature : Note: Not applicable

Decomposition temperature : Note: No decomposition if used as directed.

Molecular weight : 114.02 g/mol

**SECTION 10. STABILITY AND REACTIVITY**

Chemical stability : Stable under normal conditions.

Possibility of hazardous  
reactions : Hazardous polymerisation does not occur.

Conditions to avoid : Protect from atmospheric moisture and water.

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Incompatible materials to avoid : Alkalis  
Bases  
Metals  
Water

Hazardous decomposition products : Hydrogen fluoride  
Carbon oxides

**SECTION 11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity : Note: Toxicity is determined by the corrosivity of the product.

Acute inhalation toxicity : Note: Classification based on Annex VI of regulation 1272/2008/EC.

Acute dermal toxicity : Note: Toxicity is determined by the corrosivity of the product.

Skin irritation : Note: Classification based on Annex VI of regulation 1272/2008/EC.

Eye irritation : Note: Classification based on Annex VI of regulation 1272/2008/EC.

Sensitisation : Mouse local lymph node assay  
Species: Mouse  
Result: non-sensitizing  
Test substance: REACH dossier "read-across"  
Method: OECD Test Guideline 429

Genotoxicity in vitro : Note: Not classified due to data which are conclusive although insufficient for classification.

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity effects**

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Toxicity to fish : LC50: > 1,200 mg/l  
Exposure time: 96 h  
Species: Brachydanio rerio  
Test substance: REACH dossier "read-across"  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : static test  
EC50: > 999 mg/l  
Exposure time: 48 h  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 202

Toxicity to algae : Growth rate  
EC50: 11.4 mg/l  
Exposure time: 72 h  
Species: Selenastrum capricornutum (green algae)  
Method: OECD Test Guideline 201

: Biomass  
EC50: 0.62 mg/l  
Exposure time: 72 h  
Species: Selenastrum capricornutum (green algae)  
Method: OECD Test Guideline 201

Toxicity to bacteria : Respiration inhibition  
EC50: > 832 mg/l  
Exposure time: 3 h  
Species: activated sludge  
Method: OECD 209

### Elimination information (persistence and degradability)

Biodegradability : Method: OECD Test Guideline 301D  
Note: Not readily biodegradable.

### Further information on ecology

## SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods : Observe all Federal, State, and Local Environmental regulations.



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**SECTION 14. TRANSPORT INFORMATION**

**DOT**

UN/ID No.	:	UN 2699
Proper shipping name	:	TRIFLUOROACETIC ACID
Class	:	8
Packing group	:	I
Hazard Labels	:	8

**IATA**

UN/ID No.	:	UN 2699
Description of the goods	:	TRIFLUOROACETIC ACID
Class	:	8
Packaging group	:	I
Hazard Labels	:	8
Packing instruction (cargo aircraft)	:	854
Packing instruction (passenger aircraft)	:	850

**IMDG**

UN/ID No.	:	UN 2699
Description of the goods	:	TRIFLUOROACETIC ACID
Class	:	8
Packaging group	:	I
Hazard Labels	:	8
EmS Number	:	F-A, S-B
Marine pollutant	:	no

**SECTION 15. REGULATORY INFORMATION****Inventories**

US. Toxic Substances Control Act : On TSCA Inventory

Australia. Industrial Chemical (Notification and Assessment) Act : On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL) : All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List : On the inventory, or in compliance with the inventory

Korea. Toxic Chemical : On the inventory, or in compliance with the inventory

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## Control Law (TCCL) List

Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act : On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances : On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand : On the inventory, or in compliance with the inventory

**National regulatory information**

**SARA 302 Components** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards** : Acute Health Hazard

**California Prop. 65** : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**New Jersey RTK** : Trifluoroacetic acid 76-05-1

**SECTION 16. OTHER INFORMATION**

	<b>HMIS III</b>	<b>NFPA</b>
Health hazard	: 3	3
Flammability	: 1	1
Physical Hazard	: 0	

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Instability	:	0
Special hazard.	:	ACID

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

### Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group