SAFETY DATA SHEET

0.1% Trifluoroacetic Acid in Water
LC485-2.5

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : 0.1% Trifluoroacetic Acid in Water

SDS Number : 000000011407

Product Use Description : Laboratory Use

Manufacturer or supplier’s details : CHEM-SUPPLY Pty Ltd
38-50 Bedford St.
Gillman SA 5013, Australia

For more information call : +61 8 8440 2000
(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
CHEMTREC in Australia: +(61)-290372994
(24 hours/day, 7 days/week)

SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture
Not a dangerous substance or mixture according to the Globally Harmonised System (GHS).

GHS Label elements, including precautionary statements

Precautionary statements : Prevention:
Use personal protective equipment as required.

Other hazards which do not result in classification : Repeated or prolonged exposure may irritate eyes, skin and respiratory system.

Not a dangerous substance or mixture according to the Globally Harmonised System (GHS).

Hazard classification
Not classified as dangerous goods according to the ADG Code.
Not classified as hazardous according to criteria of NOHSC.
### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Synonyms</th>
<th>: Dilute solution of Trifluoroacetic acid in Water</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical nature</td>
<td>: Mixture</td>
</tr>
<tr>
<td>CAS-No.</td>
<td>: 76-05-1</td>
</tr>
</tbody>
</table>

**Hazardous components**

none

### 4. FIRST AID MEASURES

**Inhalation**

- Remove to fresh air.
- If not breathing, give artificial respiration.
- If breathing is difficult, give oxygen.
- Use oxygen as required, provided a qualified operator is present.
- Call a physician.

**Skin contact**

- Wash off immediately with plenty of water for at least 15 minutes.
- Take off contaminated clothing and shoes immediately.
- Wash contaminated clothing before re-use.
- Call a physician if irritation develops or persists.

**Eye contact**

- Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
- Call a physician if irritation develops or persists.

**Ingestion**

- Do not induce vomiting without medical advice.
- Never give anything by mouth to an unconscious person.
- Call a physician.

**Notes to physician**

- Treat symptomatically.

### 5. FIREFIGHTING MEASURES

**Suitable extinguishing media**

- Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Water spray
Foam
Carbon dioxide (CO2)
Dry chemical
Cool closed containers exposed to fire with water spray.

Specific hazards during firefighting:
In case of fire hazardous decomposition products may be produced such as:
Carbon monoxide
Carbon dioxide (CO2)
Hydrogen fluoride

Special protective equipment for firefighters:
Wear self-contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:
Wear personal protective equipment.
Evacuate personnel to safe areas.
Keep people away from and upwind of spill/leak.
Ensure adequate ventilation.
Remove all sources of ignition.
Do not swallow.
Avoid breathing vapours, mist or gas.
Avoid contact with skin, eyes and clothing.

Environmental precautions:
Prevent further leakage or spillage if safe to do so.
Prevent product from entering drains.
Discharge into the environment must be avoided.
Do not flush into surface water or sanitary sewer system.
Do not allow run-off from fire fighting to enter drains or water courses.

Methods for cleaning up:
Ventilate the area.
Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).

7. HANDLING AND STORAGE

Handling:
Wear personal protective equipment.
Use only in well-ventilated areas.
Keep container tightly closed.
Do not eat, drink or smoke when using this product.
Wash thoroughly after handling.
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Print Date 06/29/2018

Do not swallow.
Avoid breathing vapours, mist or gas.
Avoid contact with skin, eyes and clothing.

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

Storage
Requirements for storage areas and containers:
Keep containers tightly closed in a dry, cool and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Keep away from heat and sources of ignition.
Keep away from direct sunlight.
Protect from physical damage.
Store away from incompatible substances.
Container hazardous when empty.

Materials to avoid:
Sodium, Phosphorus, Strong oxidizing agents, Bases, Acids

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters
none

Engineering measures
Use with local exhaust ventilation.

Personal protective equipment
Respiratory protection:
In case of insufficient ventilation wear suitable respiratory equipment.
Use NIOSH approved respiratory protection.

Hand protection:
Protective gloves
Gloves must be inspected prior to use.
Replace when worn.

Eye protection:
Do not wear contact lenses.
Wear as appropriate:
Safety glasses with side-shields
Safety goggles
If splashes are likely to occur, wear:
Goggles or face shield, giving complete protection to eyes

Skin and body protection:
If splashes are likely to occur, wear:
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Hygiene measures:
- When using, do not eat, drink or smoke.
- Wash hands before breaks and at the end of workday.
- Keep working clothes separately.
- Remove and wash contaminated clothing before re-use.
- Do not swallow.
- Avoid breathing vapours, mist or gas.
- Avoid contact with skin, eyes and clothing.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>colourless</td>
</tr>
<tr>
<td>Odour</td>
<td>odourless</td>
</tr>
<tr>
<td>pH</td>
<td>ca. 2.0</td>
</tr>
<tr>
<td>Melting point/range</td>
<td>0 °C</td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td>100 °C</td>
</tr>
<tr>
<td>Flash point</td>
<td>Note: Not applicable</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>Note: Not applicable</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>Note: Not applicable</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>23.38 hPa</td>
</tr>
<tr>
<td></td>
<td>at 20 °C (68 °F)</td>
</tr>
<tr>
<td>Vapour density</td>
<td>0.46</td>
</tr>
<tr>
<td>Density</td>
<td>0.9982 g/cm3 at 20 °C</td>
</tr>
</tbody>
</table>
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Water solubility : Note: completely soluble

Ignition temperature : Note: Not applicable

10. STABILITY AND REACTIVITY

Chemical stability : Stable under normal conditions.
Possibility of hazardous reactions : Hazardous polymerization does not occur.
Conditions to avoid : Protect from extreme heat and cold. Heat, flames and sparks. Keep away from direct sunlight.
Incompatible materials to avoid : Sodium
Phosphorus
Strong oxidizing agents
Bases
Acids
Hazardous decomposition products : In case of fire hazardous decomposition products may be produced such as:
Carbon monoxide
Carbon dioxide (CO2)
Hydrogen fluoride

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : Note: no data available
Acute inhalation toxicity : Note: no data available
Acute dermal toxicity : Note: no data available
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Skin irritation : Note: no data available

Eye irritation : Note: no data available

Sensitisation : Note: no data available

Genotoxicity in vitro : Note: no data available

12. Ecological information

Toxicity

Toxicity to fish : Note: no data available

Toxicity to daphnia and other aquatic invertebrates : Note: no data available

Toxicity to algae : Note: no data available

Toxicity to bacteria : Note: no data available

13. DISPOSAL CONSIDERATIONS

Product : In accordance with local and national regulations.

14. TRANSPORT INFORMATION

ADR
Not dangerous goods
15. REGULATORY INFORMATION

Further information: Not classified as dangerous goods according to the ADG Code.
Not classified as hazardous according to criteria of NOHSC.

National regulatory information
Standard for the Uniform Scheduling of Medicines and Poisons: No poison schedule number allocated

Other international regulations
Notification status
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. Existing Chemicals Inventory (KECI): On the inventory, or in compliance with the inventory
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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

16. OTHER INFORMATION

Sources of key data used to compile the Safety Data Sheet:

2. Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(1999)]
3. List of Designated Hazardous Substances [NOHSC:10005(1999)]
5. Australian Dangerous Goods Code, No. 6 [National Road Transport Commission]
6. Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP), No. 19 [NDPSC: 2004]

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.

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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