1. PRODUCT AND COMPANY IDENTIFICATION

Product name: 2,2,2-Trifluoroacetamide (CAS # 354-38-1)
Synonym: Trifluoroacetamide, TFAM
Chemical Formula: C2H2F3NO
Recommended Use: Intermediate, Synthesis of substances
Uses Advised Against:

MANUFACTURER

HALOCARBON PRODUCTS CORPORATION                       Emergency Number: (803)278-3504
1100 Dittman Court                                         Customer Service & Sales (470) 419-6364
North Augusta, SC                                           
Website: www.halocarbon.com
Prepared by: MSDS Co-ordinator
Email: sds@halocarbon.com
Emergency CHEMTREC Phone: 800 424-9300 United States 001-703-527-3887 International & Maritime

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Skin Irritation H315
Eye Irritation H319

2.2 GHS Label Elements, including precautionary statements

Pictogram

Signal Word: Warning
Hazard Statements
H315: Causes skin irritation
H319: Causes eye irritation

Precautionary Statements
P264:  Wash skin thoroughly after handling
P280: Wear protective gloves, clothing, eye protection, face protection
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous Components</th>
<th>CAS</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Other Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,2,2-Trifluoroacetamide</td>
<td>354-38-1</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

FIRST AID MEASURES

Inhalation: Remove to fresh air. Get medical attention immediately. If breathing has stopped give artificial respiration if necessary. If breathing is difficult administer oxygen by authorized personnel only until person is able to breathe easily. Keep patient warm.

Skin: Wash affected area immediately for 15 minutes. Remove contaminated clothing and shoes. Seek medical help.

Eye: Flush eyes with plenty of water for at least 15 minutes. Get medical help immediately.

Oral: If swallowed get medical attention.

4. FIREFIGHTING MEASURES

Flash Point/Method: Not Available  Autoignition Temp: NA

Flammability Limits in Air  LEL: NA  UEL: NA

Extinguishing Media: Water spray, Carbon dioxide, regular dry chemical. Use methods appropriate for surroundings.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin or eyes.

Unusual fire and explosion Hazards: Thermal decomposition products will be toxic and corrosive. Include toxic fumes of carbon dioxide, carbon monoxide and hydrogen fluoride.

5. ACCIDENTAL RELEASE MEASURES

Spill, Leak or Release: Do not breathe dust, vapor Evacuate area. Ventilate area. Prevent material from entering drains Pick up material and hold in closed container and wash spill site after material is picked up.

Waste disposal: Dispose in accordance with all federal, state and local regulations.
6. HANDLING AND STORAGE

Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapor. Provide appropriate exhaust ventilation. Processing of solid materials may result in combustible dust.

Conditions for safe storage
Keep container tightly closed in a dry and well-ventilated place.

7. EXPOSURE CONTROLS/PERSOAL PROTECTION

Respiratory: Under conditions of exposure, use NIOSH approved respirator. Self-contained breathing apparatus for emergency use.

Ventilation: Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

Eye protection: Safety glasses or goggles

Gloves: Wear appropriate chemical resistant gloves.

Other equipment: Eyewash and quick drench shower facilities should be available.

8. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor
Form: white to light yellow solid

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling point</td>
<td>162 °C</td>
</tr>
<tr>
<td>Melting point</td>
<td>67-69 °C</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>6.03 hPa at 21 °C</td>
</tr>
<tr>
<td>Vapor Density (Air = 1)</td>
<td>&gt;1</td>
</tr>
<tr>
<td>Specific Gravity (H2O=1)</td>
<td>~1.32 g/mL</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>27g/100 mL</td>
</tr>
</tbody>
</table>

9. STABILITY AND REACTIVITY

Unstable [ ] Conditions to Avoid: Protect from physical damage and heat.

Stable [x]
Incompatibility (materials to avoid): Strong acids, strong bases, strong oxidizing agents, strong reducing agents

Hazardous Combustion or Decomposition Products: Includes toxic fumes of carbon dioxide, carbon monoxide, nitrogen oxides, hydrogen fluoride.
Hazardous Polymerization: [ ] May occur [x] Will not occur

11. TOXICOLOGICAL INFORMATION

To the best of our knowledge the chemical, physical and toxicological properties have not been investigated. Material may be destructive to tissue of the mucous membrane and upper respiratory tract. Acute exposure may cause nose, throat and lung irritation
In contact with skin vapors may cause irritation. Exposure to eyes may cause eye irritation.

Primary Routes of Entry: [ ] Inhalation [x] Skin [ ] Eyes [ ] Oral

Carcinogenicity Listing: [No] NTP [No] IARC
[No] OSHA [No] Other

12. ECOLOGICAL INFORMATION

No data available.

13. DISPOSAL CONSIDERATIONS

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

14. TRANSPORT INFORMATION

Hazardous Materials/Dangerous Goods Shipping Regulations

US DOT (49CFR): Not dangerous goods
IATA: Not dangerous goods
IMDG: Not dangerous goods

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to reporting requirements of SARA Title III, Section 302
SARA 313 Components
This material does not contain any components with CAS numbers that exceed threshold reporting levels established by SARA Title III, section 313

**Massachusetts Right to Know Components**
No components subjected to MA right to know act

**Pennsylvania Right to Know Components**

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**New Jersey Right to Know Components**

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**California Prop. 65 Components**
Warning: This product does not contain a chemical known to state of California to cause birth defects or other reproductive harm.

Eye Irritation
H315  Skin Irritation
H319  Eye Irritation
Skin Irritation

**16. OTHER INFORMATION**

The above information is believed to be correct but does not purport to be all inclusive and should be used as a guide only. Halocarbon shall not be held liable for any damages resulting from handling this product.

Date: 9/15/17