1. Identification of the substances/ mixture and of the company/ undertaking

1.1 Product Identifiers
Product Code  RM9021
Product Name  2,4,5-Trifluorobenzaldehyde

1.2 Relevant identified uses of the substance or mixture and uses advised against
Identified uses  Laboratory chemicals

1.3 Details of the supplier of the safety data sheet
Produced by  HiMedia Laboratories Pvt. Ltd.
Address  23, Vadhani Indl. Estate, LBS Marg, Mumbai 400 086, India.
Tel. No.  +91-22-2500 0970, +91-22-2500 1607
Fax No.  +91-22-2500 2468

1.4 Emergency Tel. No.
Emergency Tel. No. Please contact the regional HiMedia representation in your country

2. Hazards Identification

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]
Flammable liquids (Category 3)
Skin corrosion/irritation (Category 2)
Serious eye damage/eye irritation (Category 2A)
Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3)

Classification according to EU Directives 67/548/EEC or 1999/45/EC
Irritating to eyes, respiratory system and skin.

2.2 Label elements
Labelling according Regulation (EC) No 1272/2008 [CLP]
Pictogram

Signal word  Warning

Hazard Statement(s)
H226  Flammable liquid and vapour
H315  Causes skin irritation
H319  Causes serious eye irritation
H335  May cause respiratory irritation

Precautionary Statement(s)
P261  Avoid breathing dust/fume/gas/mist/vapours/spray.
P305 + P351 + P338  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Symbol(s)

R-Phrase(s)
R36/37/38  Irritating to eyes, respiratory system and skin.
2.3 Other hazards - none

3. Composition/Information on Ingredients

3.1 Substances

Molecular Formula: \( \text{F}_3 \text{C}_6 \text{H}_2 \text{CHO} \)

Molecular Weight: 160.09

<table>
<thead>
<tr>
<th>Component</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,4,5-Trifluorobenzaldehyde</td>
<td></td>
</tr>
<tr>
<td>CAS-No.</td>
<td>165047-24-5</td>
</tr>
</tbody>
</table>

4. First Aid Measures

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
No data available

4.3 Indication of immediate medical attention and special treatment needed
No data available

5. Fire Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Precautions for fire-fighters
Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information
No data available
6 Accidental Release Measures
6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see Section 13.

7 Handling and Storage
7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Normal measures for preventive fire protection.

7.3 Conditions for safe storage, including any incompatibilities
Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended Storage Temperature: Store below 30°C

7.3 Specific end uses
No data available

8 Exposure Controls/Personal Protection
8.1 Control parameters
Components with workplace control parameters

8.2 Exposure controls
Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment
Hygiene measure
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands face after working with the substance

Eye/face protection
Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (Without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.
Wash and dry hands.
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific work place.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a fullface respirator with multi-purpose combination (US) or type ABEK(EN 14387) respirator cartridges as a backup to the engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Environment exposure controls
Do not empty into drains

9 Physical and chemical properties
9.1 Information on basic physical and chemical properties
### Appearance
- Colourless to yellow liquid

### Odour
- No data available

### pH
- No data available

### Melting/freezing point
- No data available

### Initial boiling point and boiling range
- No data available

### Flash point
- No data available

### Upper/lower flammability or explosive limits
- No data available

### Vapour pressure
- No data available

### Vapour density
- No data available

### Relative density
- No data available

### Water Solubility
- No data available

### Partition coefficient: n-octanol/Water
- No data available

### Autoignition Temperature
- No data available

### Decomposition Temperature
- No data available

### Viscosity
- No data available

### Explosive properties
- No data available

### Oxidizing properties
- No data available

### Other safety information
- No data available

### Stability and Reactivity

#### Reactivity
- No data available

#### Chemical stability
- No data available

#### Possibility of hazardous reactions
- No data available

#### Conditions to avoid
- No data available

#### Incompatible materials
- Strong oxidizing agents

#### Hazardous decomposition products
- Other decomposition products - No data available

### Toxicological Information

#### Information on toxicological effects

##### Acute toxicity
- No data available

##### Skin corrosion/irritation
- No data available

##### Serious eye damage/eye irritation
- No data available

##### Respiratory or skin sensitisation
- No data available

##### Germ cell mutagenicity
- No data available

##### Carcinogenicity
- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

##### Reproductive toxicity
- No data available

##### Specific target organ toxicity- single exposure
- No data available

##### Aspiration hazard
- No data available

#### Potential Health Effects
- Inhalation.
12 Ecological Information
12.1 Toxicity
No data available
12.2 Persistence and degradability
No data available
12.3 Bioaccumulative potential
No data available
12.4 Mobility in soil
No data available
12.5 PBT and vPvB assessment
No data available
12.6 Other adverse effects
No data available

13 Disposal Considerations
13.1 Waste treatments methods
Product
Offer surplus and non-recyclable solutions to a licenced disposal company. Contact a licenced professional waste disposal service to dispose of this material.
13.2 Contaminated packaging
Dispose of as unused product.

14 Transport Information
14.1 UN-No.

14.2 UN proper shipping name
ADR/RID : 2,4,5-Trifluorobenzaldehyde
IMDG : 2,4,5-Trifluorobenzaldehyde
IATA : 2,4,5-Trifluorobenzaldehyde

14.3 Transport hazard class(es)
ADR/RID: 3  IMDG: 3  IATA: 3

14.4 Packaging group
ADR/RID: 3  IMDG: 3  IATA: 3

14.5 Environmental hazards
ADR/RID: No  IMDG: Marine Pollutant:No  IATA: No
EMS Code : F-E, S-D

14.6 Special precautions for use
No data available

15 Regulatory Information
This safety datasheet complies with the requirements of Regulation(EC) No.1907/2006
15.1 Safety health and environment regulations/legislation specific for the substance or mixture
No data available

15.2 Chemical Safety Assessment

16 Other Information
Further information
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