

# **MATERIAL SAFETY DATA SHEET**

CONTACT : LEONID CHEMICALS

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Produc	t details:	
Produc	t name: <u>4-(Trifluoromethoxy)aniline</u>	
Stock r	number: 1080	
Manufa	acturer/Supplier:	
LEONID	CHEMICALS	
62/A-2	2nd Stage, Industrial Suburb	
	anthpur, Bangalore -22, INDIA I-80-23378354.	
FIII- TO	-00-2337033 <del>4</del> .	
2 Con	nposition/Data on components:	
•	Chemical characterization:	
	Description: (CAS#)	
	4-(Trifluoromethoxy)aniline (CAS# 461-82-5): 100%	
•	Identification number(s):	
•	EINECS Number: 207-317-5	
3 Haz	ards identification	
•	Hazard description: Xn Harmful	
•	Information pertaining to particular dangers for man and environment	
	R 22 Harmful if swallowed.	
_	R 36/37/38 Irritating to eyes, respiratory system and skin.  Classification system	
•	HMIS ratings (scale 0-4)	
•	iniis racings (scale o it)	
	(Hazardous Materials Identification System)	
	Health (acute effects) = 1	
	Flammability = 2	
	Reactivity = 1	



### • After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.

#### After skin contact

Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.

### • After eye contact

Rinse opened eye for several minutes under running water. Then consult a doctor.

• After swallowing Seek immediate medical advice.

# 5 Fire fighting measures

# Suitable extinguishing agents

Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

# Special hazards caused by the material, its products of combustion or resulting gases:

In case of fire, the following can be released:

Carbon monoxide and carbon dioxide

Nitrogen oxides (NOx)

# • Protective equipment:

Wear self-contained respirator.

Wear fully protective impervious suit.

# 6 Accidental release measures

# Person-related safety precautions:

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

#### Measures for environmental protection:

Do not allow material to be released to the environment without proper governmental permits.

# Measures for cleaning/collecting:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

# • Additional information:

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

# 7 Handling and storage

- Handling
- Information for safe handling:

Keep container tightly sealed.



Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace.

- Information about protection against explosions and fires: Keep ignition sources away.
- Storage
- Requirements to be met by storerooms and receptacles:
   No special requirements.
- Information about storage in one common storage facility: Store away from oxidizing agents.
- Further information about storage conditions:
   Keep container tightly sealed.
   Store in cool, dry conditions in well sealed containers.

# 8 Exposure controls and personal protection

Additional information about design of technical systems:

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

<u>Components with limit values that require monitoring at the workplace:</u> Not required.

- Additional information: No data
- · Personal protective equipment
- General protective and hygienic measures

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Remove all soiled and contaminated clothing immediately.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

• Breathing equipment:

Use suitable respirator when high concentrations are present.

• Protection of hands:

Impervious gloves

Check protective gloves prior to each use for their proper condition.

Material of gloves

The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.

- Eye protection: Safety glasses
- Body protection: Protective work clothing.

### 9 Physical and chemical properties:

- General Information
- Form: LiquidColor: Brown
- Odor: Not determined



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Value/Range Unit Method

• Change in condition

Melting point/Melting range: Not determined

Boiling point/Boiling range: 73-75 ° C 10mm Hg

• Sublimation temperature / start: Not determined

Flash point: 81 ° C

• **Ignition temperature:** Not determined

Decomposition temperature: Not determined

Danger of explosion:

Product does not present an explosion hazard.

Explosion limits:

Lower: Not determinedUpper: Not determined

Vapor pressure: Not determined

• **Density:** at 20 ° C 1.31 g/cm<sup>3</sup>

• Solubility in / Miscibility with

Water: Not determined

### 10 Stability and reactivity

- Thermal decomposition / conditions to be avoided:
   Decomposition will not occur if used and stored according to specifications.
- Materials to be avoided: Oxidizing agents
- Dangerous reactions No dangerous reactions known
- Dangerous products of decomposition: Carbon monoxide and carbon dioxide Nitrogen oxides

### 11 Toxicological information

- Acute toxicity:
- Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.
- Subacute to chronic toxicity:

Absorption into the body may lead to the formation of methemoglobin, producing cyanosis, and marked fall in blood pressure leading to collapse, coma and possibly death. Onset may be delayed 2-4 hours or longer.

Additional toxicological information:

To the best of our knowledge the acute and chronic toxicity of this substance is not



No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

# 12 Ecological information:

### • General notes:

Do not allow material to be released to the environment without proper governmental permits.

# 13 Disposal considerations

- Product:
- Recommendation
   Consult state, local or national regulations to ensure proper disposal.
- Uncleaned packagings:
- Recommendation:

Disposal must be made according to official regulations.

### 14 Transport information

Not a hazardous material for transportation.

- DOT regulations:
- Hazard class: None
- Land transport ADR/RID (cross-border)
- ADR/RID class: None
- Maritime transport IMDG:
- IMDG Class: None
- Air transport ICAO-TI and IATA-DGR:
- ICAO/IATA Class: None
- Transport/Additional information:

Not dangerous according to the above specifications.

### 15 Regulations

- Product related hazard informations:
- Hazard symbols: Xn Harmful



### · Risk phrases:

22 Harmful if swallowed.

36/37/38 Irritating to eyes, respiratory system and skin.

### Safety phrases:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

36/37 Wear suitable protective clothing and gloves.

# National regulations

This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only.

### Information about limitation of use:

For use only by technically qualified individuals.

### 16 Other information:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

