

Material Safety Data Sheet (MSDS)

2-Methyl-3-(trifluoromethyl)aniline

Prepared by Tuoda Industry Limited

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1. Identification

Product Name:	2-Methyl-3-(trifluoromethyl)aniline
CAS No.:	54396-44-0
EINECS/ELINCS No.:	258-872-0
Recommended Use:	Intermediate for pharmaceuticals, agrochemicals, and organic synthesis.
Uses Advised Against:	Food, drug, pesticide, or biocidal product use.
Supplier:	Tuoda Industry Limited
Emergency Telephone (24H):	+86 13589106478 (WhatsApp)

2. Hazard(s) Identification

Classification (GHS/OSHA 29 CFR 1910.1200):

- Acute toxicity, oral (Category 4)
- Acute toxicity, dermal (Category 4)
- Skin corrosion/irritation (Category 2)
- Serious eye damage/eye irritation (Category 2A)

Signal Word: Warning

Hazard Statements:

- Harmful if swallowed.
- Harmful in contact with skin.
- Causes skin irritation.
- Causes serious eye irritation.

3. Composition/Information on Ingredients

2-Methyl-3-(trifluoromethyl)aniline

CAS No.: 54396-44-0

4. First-aid Measures

Inhalation: Move person to fresh air. Seek medical attention if symptoms persist.

Skin Contact: Wash thoroughly with soap and water. Seek medical attention if irritation persists.

Eye Contact: Rinse cautiously with water for several minutes. Seek medical attention if necessary.

Ingestion: Rinse mouth. Do NOT induce vomiting. Seek immediate medical attention.

5. Fire-fighting Measures

Suitable Extinguishing Media: Dry chemical, CO₂, foam.

Specific Hazards: Combustible material; may form hazardous decomposition products under fire conditions.

Protective Equipment: Full protective gear and self-contained breathing apparatus.

6. Accidental Release Measures

Personal Precautions: Wear protective clothing. Avoid inhalation and contact with skin and eyes.

Environmental Precautions: Prevent from entering drains, surface waters, or groundwater.

Methods for Cleanup: Absorb with inert material and dispose of according to local regulations.

7. Handling and Storage

Handling: Handle in accordance with good industrial hygiene and safety practices.

Storage: Store in tightly closed containers in a dry, cool, and well-ventilated place.

8. Exposure Controls / Personal Protection

Engineering Controls: Adequate ventilation, local exhaust preferable.

Personal Protective Equipment:

- Eyes: Safety goggles (EN166)
- Skin: Protective gloves and protective clothing
- Respiratory: Approved respirators if exposure limits are exceeded.

9. Physical and Chemical Properties

Appearance	Colorless to pale yellow liquid
Odor	Aromatic odor
Density at 20°C	1.24 g/cm ³
Melting Point	-5°C
Boiling Point	182-184°C
Flash Point	> 79°C (closed cup)
Solubility	Insoluble in water; soluble in organic solvents

10. Stability and Reactivity

Reactivity: Stable under recommended handling conditions.

Stability: Stable under normal conditions.

Incompatible Materials: Strong oxidizers.

Decomposition Products: Carbon oxides, nitrogen oxides, hydrogen fluoride.

11. Toxicological Information

Acute Toxicity: Harmful if swallowed or in contact with skin.

Inhalation: May cause respiratory irritation.

Skin Contact: Causes skin irritation.

Eye Contact: Causes serious eye irritation.

Ingestion: Harmful if swallowed.

Carcinogenicity: Not classified.

STOT: May cause respiratory system effects.

12. Ecological Information

Ecotoxicity: May be harmful to aquatic organisms.

Persistence: Expected to degrade slowly.

Bioaccumulation: Potential bioaccumulation.

13. Disposal Considerations

Dispose of in accordance with local/regional/national regulations.

14. Transport Information

UN Number	UN2810
Proper Shipping Name	Toxic liquid, organic, n.o.s. (2-Methyl-3-(trifluoromethyl)aniline)
Hazard Class	6.1 (Toxic substances)
Packing Group	III

15. Regulatory Information

TSCA (US): Listed
EINECS (EU): Listed
REACH: Use restricted.

16. Other Information

Prepared By: Safety & Compliance Department, Tuoda Industry Limited
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Disclaimer: The information herein is accurate to the best of our knowledge. It is provided for safety guidance and does not constitute a warranty.