

Material Safety Data Sheet

SECTION 1 - Chemical Product and Company Identification

Msds name: 4-Trifluoromethoxyaniline, 99+%

Formula: $C_7H_6F_3NO$

CAS No.: 461-82-5

Company Identification:

DGCC(HK) International Trading Ltd.

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SECTION 2 - Hazards identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (EU-GHS/CLP)

Acute toxicity, Oral (Category 3)

Acute toxicity, Dermal (Category 2)

Skin irritation (Category 2)

Serious eye damage (Category 1)

Specific target organ toxicity-repeated exposure (Category 2)

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Toxic in contact with skin and if swallowed. Danger of cumulative effects. Irritating to skin. Risk of serious damage of eyes.

Label elements

Labeling according Regulation (EC) No 1272/2008 . [CLP].



Pictogram

Signal word Danger

Hazard statements

H301 Toxic if swallowed

H310 Fatal in contact with skin

H315 Cause skin irritation

H318 Cause serious eye damage.

H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

P280 Wear protective gloves/eye protection/face protection.

P301+P310 If swallowed: Immediately call a POISON CENTER or doctor/physician.

P302+P350 If on skin: Gently 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.
P310 Immediately call a poison center or doctor/physician.

Supplemental hazard: none

According to European Directive 67/548/EEC as amended.

Hazards symbols:



R-phrases

R24/25 Toxic in contact with skin and if swallowed.
R33 Danger of cumulative effects.
R38 Irritating to skin
R41 Risk of serious damage to eyes.

S-phrases

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S45 In case of accident or if you feel unwell, seek medical advice immediately(show the label where possible).

Other hazards-none

SECTION 3 - Composition/information on ingredients

Chemical nature: 4-Trifluoromethoxyaniline, 99+%

Formula: $C_7H_6F_3NO$

CAS No.: 461-82-5

EC No.: 207-317-5

Molecular weight: 177.13g/mol

SECTION 4 - First-aid measures

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. Take victim immediately to hospital. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water or at least 15 minutes and consult a physician.

If swallowed

Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed

Absorption into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis. Onset may be delayed 2-4 hours or longer. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Indication of immediate medical attention and special treatment needed

No data available.

SECTION 5 - Fire-fighting measures

Extinguish media

Suitable extinguishing media:

For a small(Incipient) fires, use media such as "alcohol" foam, dry chemical or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all effected containers with flooding quantities of water.

Special hazards arising from the substance or mixture

Carbon oxides, nitrogen oxides(NOx), Hydrogen fluoride.

Advice for fire-fighters: Wear self contained breathing apparatus for fire-fighting is necessary.

Furth information

Use water spray to cool unopened containers.

SECTION 6 - Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental precautions

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

Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

Reference to other sections

For disposal see section 13.

SECTION 7 - Handling and storage

Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.

Keep away from sources of ignition-No smoking. Take measures to prevent the build up of electrostatic charge.

Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Specific end uses: No data available

SECTION 8 - Exposure controls/Personal protection

Control parameters

Components with workplace control parameters

Exposure controls

Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Eye/face protection: Tightly fitting safety goggles. Face shield (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. Disposal 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 EN374 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 workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN14387) respirator cartridges as a backup to 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 approved government standards such as NIOSH (US) or CEN (EU).

SECTION 9 - Physical and chemical properties

Physical State: Liquid

Appearance: clear very faint yellow

Odor: Aniline odor.

pH: Not available.

Vapor Pressure: Not available.

Vapor Density: Not available.

Evaporation Rate: Not available.

Viscosity: Not available.

Boiling Point: 73 - 75 deg C @ 10.00mm Hg

Freezing/Melting Point: Not available.

Decomposition Temperature:

Solubility in water:

Specific Gravity/Density: 1.310g/cm³

Flash point: 92°C

Ignition temperature: not below 550°C

Molecular Formula: C₇H₆F₃NO

Molecular Weight: 177.13

SECTION 10 - Stability and reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Reactivity: No data available.

Possibility of hazardous reactions: : No data available.

Conditions to avoid: No data available.

Incompatible materials: No data available.

Hazardous decomposition products: other decomposition products: No data available.

SECTION 11 - Toxicological information

Acute toxicity:

LD₅₀ Oral-rat-132mg/kg

LD₅₀ Dermal-rat-105mg/kg

Skin corrosion/irritation:

Skin-rabbit-Skin irritation.

Serious eye damage/eye irritation:

Eyes-rabbit-Severe eye irritation.

Respiratory or skin sensitization: No data available.

Germ cell mutagenicity:

Genotoxicity in vitro- Not mutagenic in Ames Test.

Histidine reversion (Ames).

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.

Productive toxicity: No data available.

Specific target organ toxicity-single exposure

No data available

Specific target organ toxicity-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

No data available

Potential health effects

Inhalation: Harmful if inhaled. Cause respiratory tract irritation.

Ingestion: Toxic if swallowed.

Skin: May be fatal if absorbed through skin. Cause skin irritation.

Eyes: Cause eye burns.

Signs and Symptoms of Exposure

Absorption into the body leads to the information of methemoglobin which in sufficient concentration causes cyansis. Onset may be delayed 2-4 hours or longer. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional information

RTECS: Not available.

SECTION 12 - Ecological information

Toxicity

No data available.

Persistence and degradability

No data available.

Bioaccumulative potential

No data available.

Mobility in soil

No data available.

Results or PBT and vPvB assessment

No data available.

Other adverse effects

No data available.

SECTION 13 - Disposal considerations

Waste treatments methods

Product

This combustible material maybe burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

SECTION 14 - Transport information

ADR / RID / IMDG / IATA:

Hazard Class: 6.1

UN No.: 2941

Packing group: III

Special precautions for user No
data available.

SECTION 15 - Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. Safety, health and environmental regulations/legislation specific for the substance or mixture: No data available

Chemical Safety Assessment: No data available

SECTION 16 - Other information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.