



A. GENERAL INFORMATION

This product safety summary is intended to provide a general overview of the chemical substance in the context of ICCA global product strategy. It is not intended to provide emergency response, medical or treatment information nor to provide an overview of all safety and health information. This summary is not intended to replace the Safety Data Sheet. For detailed guidance on the use or regulatory status of this substance, please consult the Safety Data Sheet.

Company Name	M/s GUJARAT FLUORO CHEMICALS LIMITED
Address	Survey No 16/3, 26, 27, Ranjitnagar Pin-389 380, Tal. Ghoghamba, Dist. Panchmahals, Gujarat, India
Business Phone	+91 – 2678 – 248107, 248152
Business Fax	+91 – 2678 – 248153
Web Site	www.gfl.co.in

B. CHEMICAL PRODUCT IDENTIFICATION:

Product Name	2, 6-dichloro-4-(trifluoromethyl) aniline
Synonyms	4-Amino-3, 5-dichlorobenzotrifluoride
IUPAC Name	2, 6-dichloro-4-(trifluoromethyl) aniline
CAS NO	24279-39-8
E C No	416-430-0
Molecular Formula	C ₇ H ₄ Cl ₂ F ₃ N

C. USES AND APPLICATIONS:

- ✓ Used in the synthesis of GABA receptor antagonists
- ✓ It is one of important pesticide intermediates and is used to prepare insecticidal pyrazole type compounds such as pyrazole type insecticide "Fipronil".

D. PHYSICAL / CHEMICAL PROPERTIES:

Properties	Value
Physical state and appearance	Solid at 20°C & Liquid at 40°C
Odor	Not Available
Molecular Weight	230.02 g/mole
Color:	Not Available
PH (1% soln /water)	Not Available



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2, 6-DICHLORO-4-(TRIFLUOROMETHYL) ANILINE

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Boiling Point	60-62 °C
Melting Point	34-37 °C
Flash Point	88°C
Critical Temperature	Not available
Relative Density	1.53g/cm ³ at 20°C
Vapor Pressure	Not Available
Vapor Density	No information available
Volatility	Not available.
Odor Threshold	Not available.
Water/Oil Dist. Coefficient	Not available.
Ionicity (in Water)	Not available
Dispersion Properties	Not available

E. HAZARD IDENTIFICATION:

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Effect	Value
Acute toxicity	Oral LD50-1610 mg/kg Dermal LD50- >2000mg/kg Inhalation LC50-1.61mg/L
Skin corrosion/irritation	Causes severe skin burns
Serious eye damage/eye irritation	Causes serious eye damage
Respiratory or skin sensitization	Not Available
Germ cell mutagenicity	Not Available
Carcinogenicity	Not Available
Reproductive toxicity	No data available
Specific target organ toxicity – single exposure	No data available
Specific target organ toxicity repeated exposure	No data available
Acute inhalation toxicity	Not Available
Aspiration hazard	No data available
Additional Information	RTECS: Not Available




F. ENVIRONMENTAL EFFECTS

Effect	Value
Toxicity	Toxicity to fish LC50-0.11mg/L(96hr) Toxicity to Daphnia and other aquatic invertebrates EC50-1.59mg/L(48hr) Toxicity to Algae ErC50-1.09mg/L(72hr)
Persistence and degradability	Not Available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Results of PBT and vPvB assessment	Not Available
Other adverse effects	Not Available

G. EXPOSURE

Effect	Value
Precautions for safe handling	Combustible liquid! Do not breathe mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not ingest. If swallowed then seek immediate medical assistance. Handle product only in closed system or provide appropriate exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Use only non-sparking tools. Keep away from open flames, hot surfaces and sources of ignition. To avoid ignition of vapors by static electricity discharges, all metal parts of the equipment must be grounded. Take precautionary measures against static discharges.
Protection against fire and explosion	Wear self contained breathing apparatus for fire fighting if necessary.
Conditions for safe storage, including any incompatibilities	Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away from heat, sparks and flame. corrosives area. Keep containers tightly closed in a dry, cool and well-ventilated place.
Further information on storage conditions	Keep container tightly closed and dry; store in a cool place. Keep container in a well-ventilated place.

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H. RISK MANAGEMENT MEASURES

Effect	Value
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. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Aldrich - 264377. 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 workplace.
Respiratory Protection	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) 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 appropriate government standards such as NIOSH (US) or CEN (EU).

I. PERSONAL PROTECTIVE EQUIPMENT AND EMERGENCY MEASURES

- ✓ Control parameters
- ✓ Components with workplace control parameters
- ✓ Exposure controls
- ✓ Appropriate engineering controls
- ✓ Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating /lighting/equipments.

J. ACCIDENTAL RELEASE MEASURES

- ✓ Personal Precaution, protective equipment and emergency procedure: Remove all sources of ignition. Take precautionary measures against static discharges. Use personal protective equipment. Do NOT breathe vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
- ✓ **Environment Precautions:**

Prevent further leakage or spillage if safe to do so. Do not let product enter drain. Discharge into the environment must be avoided.


✓ **Methods and materials for containment and cleaning up:**

Sweep and shovel into suitable container for disposal. Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Do not let this chemical enter the environment.

K. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Water spray, Carbon dioxide (CO ₂), dry chemical, chemical foam. Water mist can be used to cool the closed containers.
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L. CLASSIFICATION AND LABELLING

Pictogram	
Hazard Statement	H302+H332 Harmful if swallowed or if inhaled H315 Causes skin irritation H317 May cause skin sensitization H410 Very toxic to aquatic life with long-lasting effects
Precautionary Statement	P261 Avoid breathing dust/fume/gas/mist/vapours/spray P271 Use only outdoors or in a well-ventilated area. P270 Do not eat, drink or smoke while using this product. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/protective clothing/eye protection/ face protection. P264 Wash face, hands and any exposed skin thoroughly after handling. P273 Avoid release to the environment. P301+P312 IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell. P330 Rinse mouth. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P333+P313 If skin irritation or rash occurs: Get medical advice/attention P362+P364 Take off contaminated clothing before and wash it before reuse. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in comfortable position for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.



	P337+P313 If eye irritation persists: Get medical advice/attention. P312 Call a POISON CENTRE or doctor/physician if you feel unwell. P391 Collect spillage P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up. P501 Dispose of contents/container to an approved waste disposal plant.
Hazard signal	Warning

M. BASIC TRANSPORT INFORMATION

UN Number	UN2811
1 UN Proper Shipping Name	TOXIC SOLIDS, ORGANIC, N.O.S. (2,6-dichloro-4-trifluoromethylaniline)
Transport hazard class (es)	6.1
Packaging Group	III
Environmental hazards	Yes

N. REGULATORY INFORMATION

- ✓ Safety, health and environmental regulations/legislation specific for the Substance or mixture. This safety data sheet complies with the requirement of Regulation (EC) No. 1907/2006.


Chemical Safety Assessment	For this product a chemical safety assessment was not carried out
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O. CONCLUSIONS

- ✓ 2, 6-Dichloro-4-(Trifluoromethyl) Aniline is used in pharmaceutical & agrochemical intermediates.
- ✓ Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

P. CONTACT INFORMATION

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Q. DISCLAIMER

- ✓ The above information and recommendations provided in GPS safety summary only concern to the specific product as described above and may not apply for the same material if used in combination with any other material or any process.
- ✓ They are in good faith as recommendations only and based on data which is available globally. GFL (Gujarat Fluorochemicals Ltd) not imply any guarantee concerning the accuracy and validity and accepts no responsibility for any damage or loss that might arise in connection with then use of this material.