



GUJARAT FLUORO CHEMICALS LIMITED
GLOBAL PRODUCT STRATEGY SAFETY SUMMARY
BENZOTRIFLUORIDE

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ISSUED :
28.08.2020

REVISION : 00

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 refer 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	Benzotrifluoride
Synonyms	(Trifluoromethyl)benzene
IUPAC Name	Benzotrifluoride
CAS NO	98-08-8
E C No	202-635-0
Molecular Formula	C ₇ H ₅ F ₃

C. USES AND APPLICATIONS:

- ✓ It is used in manufacturing of substituted Benzotrifluorides.
- ✓ Its compounds used in high power polymer chemistry.
- ✓ It is used as Solvent, Vulcanizing agents, Insecticide.

D. PHYSICAL / CHEMICAL PROPERTIES:

Properties	Value
Physical state and appearance	Liquid
Odor	NA
Molecular Weight	146.11 g/mol
Color:	Colorless
PH (1% soln /water)	Not available



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Boiling Point	102.9°C
Melting Point	-30°C
Flash Point	8 °C
Critical Temperature	Not available
Relative Density	1.191 g/cm ³ (20°C)
Vapor Pressure	6999 pa at 20°C
Vapor Density	Not available.
Volatility	Not available.
Odor Threshold	Not available.
Water/Oil Dist. Coefficient	Log Kow = 3.01 at 20 °C
Ionicity (in Water)	Not available
Dispersion Properties	Not available

E. HAZARD IDENTIFICATION:

This chemical is considered hazardous according to Regulation (EC) No. 1272/2008 [CLP]

Effect	Value
Acute toxicity	Acute oral toxicity- LD50 Rat: 15,000 mg/kg Dermal- LD50 > 2000 mg/kg (Rat) Inhalation- LC50 = 70810 mg/m ³ (Rat)
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data 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	No data available
Aspiration hazard	No data available
Additional Information	No data available

F. ENVIRONMENTAL EFFECTS

Effect	Value
Toxicity : Toxicity to fish - static test LC50 - Leuciscus idus (Golden orfe)	19.4 mg/L(96hr)
Toxicity to daphnia and other aquatic invertebrates - static test EC50 Daphnia magna (Water flea)	3.11 mg/L(48hr)
Toxicity to bacteria EC10 - Pseudomonas putida	5.4 mg/L(72hr)
Persistence and degradability Biodegradability aerobic - Exposure time 28 d	No biodegradation observed in waste water treatment.
Bioaccumulative potential	Bioconcentration Factor (BCF) = 58. Low bioaccumulative potential.
Mobility in soil	No data available
Results of PBT and vPvB assessment	No data available
Other adverse effects	No data available

G. EXPOSURE

Effect	Value
Precautions for safe handling	Highly Flammable liquid! Avoid breathing mist/vapors/spray. Avoid contact with eyes and skin. 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	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
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	Not available

H. RISK MANAGEMENT MEASURES

Effect	Value
Eye/face protection	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Recommended: safety glasses with side- shields.
Skin protection	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product..
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	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator Recommended: Full mask with type ABEK filter / Wear breathing apparatus with separate air supply (compressed air respirator, tube apparatus) at higher concentrations.

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

- ✓ Use proper personal protective equipment .
- ✓ Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Remove all sources of ignition. Use a spark-proof tool. Do not let this chemical enter the environment.
- ✓ Methods and materials for containment and cleaning up
- ✓ Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations. Keep in suitable, closed containers for disposal.

K. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Water spray, Carbon dioxide (CO ₂), dry chemical, chemical foam.
Unsuitable Extinguishing Media	Not Available

L. CLASSIFICATION AND LABELLING

Pictogram	
Unsuitable Extinguishing Media	Not Available
Hazard Statement	H225 Highly flammable liquid and vapour H411 Toxic to aquatic life with long lasting effects.
Precautionary Statement	P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P233 Keep container tightly closed. P240 Ground/Bond container and receiving equipment P241 Use explosion-proof electrical/ ventilating/ lighting/.../ equipment. P242 Use only non-sparking tools P243 Take precautionary measures against static discharge. P280 Wear protective gloves/protective clothing/eye protection/ face protection. P273 Avoid release to the environment. P370+P378 In case of fire use extinguishing media appropriate local surrounding and circumstances to extinguish. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. 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 Symbol(s)	Danger

M. BASIC TRANSPORT INFORMATION



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UN Number	UN2338,AND/ADNR:2338,IMDG: 2338 IATA: 2338
1 UN Proper Shipping Name	Benzotrifluride
Transport hazard class (es)	3
Packaging Group	II
Environmental hazards	ADR: Yes, AND/ADNR :Yes, IMDG: Yes, IATA :Yes

N. REGULATORY INFORMATION

International Inventories	Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture
TSCA	Complies
EINECS/ ELINCS	Complies
DSL/NDSL	Complies
PICCS	Complies
ENCS	Complies
IECSC	Complies
AICS	-
KECL	Complies
Legend	
TSCA	United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL	Domestic Substances List/ Non-Domestic Substances List
EINECS/ELINCS	European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
PICCS	Philippines Inventory of Chemicals and Chemical Substances
ENCS	Japan Existing and New Chemical Substances
IECSC	China Inventory of Existing Chemical Substances
AICS	Australian Inventory of Chemical Substances
KECL	Korean Existing and Evaluated Chemical Substances

O. CONCLUSIONS



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- ✓ It is used as solvent in Organic synthesis.
- ✓ By applying the appropriate Risk Management measures the concentrations to be expected at workplaces and to the general public are below recommended exposure limits.

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.