

SAFETY DATA SHEET

Fluazinam Technical

SDS #: 50000275
Revision date:
2021-04-01 Version 2
Format: BR



Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name Fluazinam Technical

Other means of identification

Product Code(s) 50000275, RM0006629-BR-A

UN/ID no UN3077

Synonyms

Active Ingredient(s) Fluazinam

Formula $C_{13}H_4Cl_2F_6N_4O_4$ (Fluazinam)

Chemical Family Dinitro aniline

Recommended use of the chemical and restrictions on use

Recommended Use: Can be used for experimental purposes only.

Restrictions on Use: Use as recommended by the label.

Details of the supplier of the safety data sheet

Address: FMC Química do Brasil Ltda.
Avenida Dr. José Bonifácio Coutinho Nogueira,
150 - 1º andar - Jardim Madalena, Campinas/SP
Telephone number : (19) 2042-4500
Manufacturer/Supplier Taizhou Bailly Chemical Co.,Ltd.No.9,Zhonggang Road,Taixing Economic Developing
Zone,Taixing City,Jiangsu Province,225404,P.R.China
Emergency telephone number: (34) 3319-3019 or 0800 34 35 450

Section 2: HAZARDS IDENTIFICATION

Classification according to ABNT-NBR 14725-3 in accordance with the Globally Harmonized System (GHS)

General Hazards

This material is considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Acute toxicity - Inhalation (Dusts/Mists)	Category 3
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1
Reproductive Toxicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 2
Acute aquatic toxicity	Category 1

Hazard pictograms

Chronic aquatic toxicity

Category 1

GHS Label elements, including precautionary statements**Signal Word: Danger****Hazard Statements**

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H331 - Toxic if inhaled

H361 - Suspected of damaging fertility or the unborn child

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

Precautionary Statements**Precautionary Statements - Prevention**

P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P281 - Use personal protective equipment as required

P271 - Use only outdoors or in a well-ventilated area

P264 - Wash face, hands and any exposed skin thoroughly after handling

P272 - Contaminated work clothing should not be allowed out of the workplace

P280 - Wear protective gloves

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P273 - Avoid release to the environment

Precautionary Statements - Response

P308 + P313 - If exposed or concerned: Get medical advice/attention

IF IN EYES

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

IF ON SKIN

P302 + P352 - IF ON SKIN: Wash with plenty of water and soap

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

P363 - Wash contaminated clothing before reuse

IF INHALED

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P311 - Call a POISON CENTER or doctor

P391 - Collect spillage

Precautionary Statements - Storage

P405 - Store locked up

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

P501 - Dispose of contents/container according to label directions

Other Information

The above risk classification charts have been identified for this product according to their respective hazard identification by interpreting Annex D, Tables D.1 to D.31 of ABNT - NBR 14725-3. The above safety information for this product has been based on the priority criteria given in ABNT - NBR 14725-3 annex B item B.3, sub item a), b) and c); prioritizing the risk of the highest

Hazard pictograms

hazard category.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/preparation Mixture

Chemical Family Dinitro aniline

Hazardous Components

Chemical name	CAS-No	Weight %
Fluazinam	79622-59-6	98

Synonyms are provided in Section 1.

Section 4: FIRST AID MEASURES**FIRST AID MEASURES**

General Advice Do not give anything by mouth to an unconscious person.

Eye Contact Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Call a poison control center or doctor for further treatment advice.

Inhalation Move to fresh air. If person is not breathing, contact emergency medical services, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

Ingestion Rinse mouth with water and afterwards drink plenty of water or milk. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If vomiting does occur, rinse mouth and drink fluids again. Immediately call a POISON CENTER or doctor/ physician.

Protection of first-aiders Avoid contact by using personal protective equipment. See Section 8 for more detail.

Most important symptoms and effects, both acute and delayed

Most important symptoms and effects, both acute and delayed Allergic skin reactions.

Indication of any immediate medical attention and special treatment needed

Indication of immediate medical attention and special treatment needed, if necessary Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Small Fire Dry chemical. Carbon dioxide (CO₂).

Hazard pictograms

Large Fire Water spray. Foam.

Unsuitable extinguishing media

Do not spread material with high pressure water streams.

Specific extinguishing methods

Evacuate area and fight fire from a safe distance. Very toxic to aquatic life with long lasting effects. Dike to prevent runoff.

Special protective equipment for fire-fighters

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment.

Specific Hazards Arising from the Chemical

None known.

Hazardous Combustion Products

Hydrogen fluoride. Hydrogen chloride. Nitrogen oxides (NOx). Carbon oxides (COx). Sulfur oxides. various chlorinated and fluorinated organic compounds.

Explosive properties

Sensitivity to Mechanical Impact Not sensitive.

Sensitivity to Static Discharge Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions

Identify the substance from a safe place. Do not inhale, do not touch and do not walk through spilled material. Isolate the area to ensure sufficient breadth to individuals and to facilitate the work control and cleaning. Keep away from unauthorized personnel. Call 911 and wait for help. Stay upwind and out of low areas. Always have a fire extinguisher available, preferably dry chemical (PQS).

Environmental Precautions

Environmental Precautions

Keep people and animals away from and upwind of spill/leak. Keep material out of lakes, streams, ponds, and sewer drains. Keep out of waterways. See Section 12 for additional Ecological Information.

C. Methods and material for containment and cleaning up

Methods for Containment

Wear the full Personal Protection Equipment, avoiding inhalation or contact with skin or eyes. Dike to contain spill with inert material which is absorbent and non-combustible (clay, sand or soil). Then soak up with absorbent material inward from the edges.

Methods for cleaning up

Sweep up and shovel into suitable containers for disposal. Clean and neutralize spill area, tools and equipment for a minimum contact of one hour with vinegar-alcohol solution, then by bleach, soap, and water. Absorb rinsate and add to the collected waste. Waste must be classified and labeled prior to recycling or disposal. Dispose of waste as indicated in Section 13.

Section 7: HANDLING AND STORAGE

Precautions for Safe Handling

Handling

Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Use personal protective equipment. Remove and wash contaminated clothing before re-use.

Hazard pictograms

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Prevent contact with skin, eyes, and clothing. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace.

Conditions for safe storage, including any incompatibilities**Storage**

Keep container tightly closed in a dry and well-ventilated place. Store in original container.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**Exposure Guidelines**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Appropriate engineering controls**Engineering measures**

Apply technical measures to comply with the occupational exposure limits (if listed above). When working in confined spaces (tanks, containers, etc.), make sure there is an adequate source of air for breathing and wear the recommended equipment. Ventilate all transport vehicles prior to discharge.

Individual protection measures, such as personal protective equipment**Eye/Face Protection**

Tightly fitting safety goggles. Face-shield. Maintain eye wash fountain and quick-drench facilities in work area.

Skin and Body Protection

Coveralls worn over long-sleeved shirt and long pants with socks. Wear chemical-resistant footwear, gloves and headgear.

Hand Protection

Use protective gloves made of chemical materials such as nitrile or neoprene. Wash the outside of gloves with soap and water before reuse. Check regularly for leaks.

Respiratory Protection

Use only with adequate ventilation. Respiratory protective device with particle filter.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Prevent contact with skin, eyes, and clothing. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace.

General information

If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied

Section 9: PHYSICAL AND CHEMICAL PROPERTIES**Physical State**

Solid

Appearance

Powder

Odor

Slight

Color

yellow, Off-white

Odor threshold

No information available

pH

5-8

Melting point/freezing point

115.4 °C

Boiling Point/Range

Not applicable No information available

Flash point

> 103 °C

Evaporation Rate

No information available

Flammability (solid, gas)

No information available

Flammability Limit in Air

Hazard pictograms

Upper flammability limit:	No information available
Lower flammability limit:	No information available
Vapor pressure	0.0011 Pa @ 20°C
Vapor density	No information available
Specific gravity	0.366
Water solubility	Negligible
Solubility in other solvents	Ethyl acetate, acetone: soluble
soluble in organic solvents	
Surface tension	No data available
Partition coefficient	log Pow = 4.67 @ pH 7 @ 21 C
Autoignition temperature	>400 °C
Decomposition temperature	No information available
Viscosity, kinematic	No information available
Viscosity, dynamic	No information available
Explosive properties	Not explosive
Corrosivity	No information available
Oxidizing properties	Non-oxidizing
Softening point	No information available
Molecular weight	No data available
VOC content (%)	No information available
Relative density	No information available
Bulk density	No information available

Section 10: STABILITY AND REACTIVITY

Reactivity

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Avoid extreme heat or cold.

Incompatible materials

None known.

Hazardous Decomposition Products

Thermal decomposition can lead to release of toxic/corrosive gases and vapors: Halogenated compounds, Carbon oxides (COx), Nitrogen oxides (NOx), Sulfur oxides.

Section 11: TOXICOLOGICAL INFORMATION

Product Information

LD50 Oral > 5000 mg/kg (rat)

LD50 Dermal > 2000 mg/kg (rat)

LC50 Inhalation (dust) > 0.605 mg/L 4 hr (rat)

Information on likely routes of exposure

Inhalation: Toxic by inhalation

Eye Contact: May cause irritation

Skin Contact: May cause sensitization by skin contact. May cause slight irritation

Ingestion: There are no data available for this product

Hazard pictograms

Information on toxicological effects

Symptoms: Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation: Mildly irritating (rabbit)

Serious eye damage/eye irritation: Moderately irritating (rabbit)

Sensitization: Sensitizer (mouse)

Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Negative in the mouse micronucleus test

Carcinogenicity: There are no known carcinogenic chemicals in this product

Reproductive toxicity: No information available on reproductive toxicology

STOT - repeated exposure: Causes damage to organs through prolonged or repeated exposure

Developmental toxicity: In teratology studies on fluazinam in rats and rabbits (method US-EPA 83-3), increased incidences of fetal abnormalities were observed, such as placental abnormalities, fused or incompletely ossified sternebrae, abnormalities of the head bones, not developed renal papillae and distended ureter(s).

Target organ effects: Liver

Neurological effects: No information available

Section 12: ECOLOGICAL INFORMATION

Very toxic to aquatic life with long lasting effects.

Ecotoxicity

Duration	Species	Value	Units
96 h LC50	Fish	0.52	mg/L

Persistence and degradability: Not readily biodegradable.

Bioaccumulation: Bioaccumulative potential.

Mobility: Low mobility in soil.

Other Adverse Effects: See product label for additional application instructions relating to environmental precautions

Section 13: DISPOSAL CONSIDERATIONS**Waste disposal methods**

Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is prohibited. If these wastes cannot be disposed of by use according to label instructions, contact appropriate disposal authorities for guidance. Proper personal protective equipment, as described in Sections 7 and 8, must be worn while handling materials for waste disposal.

Hazard pictograms

Contaminated containers and packages

Containers must be disposed of in accordance with local regulations. Refer to the product label for container disposal instructions. Do not reuse this container for any other purpose.

Section 14: TRANSPORT INFORMATION

IMDG/IMO:

UN/ID no	UN3077
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Fluazinam)
Hazard class	9
Packing Group	III
Marine Pollutant	Fluazinam

ICAO:

UN/ID no	UN3077
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (fluazinam)
Hazard class	9
Packing Group	III

ICAO/IATA:

UN/ID no	UN3077
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Fluazinam)
Hazard class	9
Packing Group	III

DOT

DOT UN/NA Number	UN3077
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Fluazinam)
Hazard class	9
Packing Group	III

MEX:

UN/ID no	3077
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (fluazinam)
Hazard class	9
Packing Group	III
Marine Pollutant	Yes

Section 15: REGULATORY INFORMATION

Chemical name	TSCA (United States)	DSL (Canada)	EINECS/ELI NCS (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Fluazinam 79622-59-6			X			X		

Section 16: OTHER INFORMATION

Hazard pictograms

Revision date: 2021-04-01

Revision note Emergency Number

Disclaimer

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Hazard pictograms

Telephone number :