

SAFETY DATA SHEET

Product: TANFLOC MT

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1 - IDENTIFICATION

Identification of product:	TANFLOC MT
Other ways to identification:	LIQ
Recommended uses of chemical and usage restrictions:	Water and effluent treatment.
Supplier Details:	TANAC S/A Address: RUA TORBJORN WEIBULL, 199, Bairro Tanac, CEP: 92524-000 - RS - Brazil. Telephone: (+55)(51) 3632-4055 Email: tanac@tanac.com.br
Emergency telephone number:	Toll Free: 1-800-424-9300 Local: +1-703-527-3887 Brazil: 0800 892 0479 (24h)

2 - HAZARDS IDENTIFICATION

Classification of substance or mixture:	Serious eye damage/eye irritation - Category 2A; Dangerous to the aquatic environment - Acute - Category 2.
System of classification used:	ABNT-NBR 14725 standard. Globally Harmonized System for the Classification and Labeling of Chemicals, UN.

GHS labeling elements, including precautionary phrases

Pictograms:	
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Word of warning:	ATTENTION
Hazard phrases:	H319 Causes serious eye irritation. H401 Toxic to aquatic organisms.
Precautionary phrases:	PREVENTION: P264 Wash thoroughly after handling. P273 Avoid release to the environment. P280 Wear protective gloves, protective clothing, eye protection, face protection and hearing protection. EMERGENCY RESPONSE: P305 + P351 + P338 IF IN EYES: Rinse carefully with water for several minutes. If you use contact lenses, remove them if it is easy. Keep rinsing. P337 + P313 If eye irritation persists: Consult a doctor. DISPOSITION: P501 Dispose of contents and container in accordance with local regulations.
Other hazards that do not result in a classification:	The product has no other hazards.

3 - COMPOSITION AND INFORMATION ABOUT INGREDIENTS

MIXTURE	TANFLOC MT
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Ingredients, impurities and/or stabilizing additives that contribute to the danger:	Confidential information 1: 20.0 % (Classification: H319; H402).	

4 - FIRST AID MEASURES

Inhalation:	Remove the victim to a ventilated area and keep him at rest in a position that does not make breathing difficult. If you feel unwell, contact a TOXICOLOGICAL INFORMATION CENTER or a doctor. Take this document.
Skin contact:	Immediately wash exposed skin with sufficient water to remove the material. Remove contaminated clothing or accessories. In case of minor contact with the skin, avoid spreading the product on unaffected areas. Consult a doctor. Take this document.
Eye contact:	Immediately flush your eyes with sufficient water, keeping your eyelids open for several minutes. If you are using contact lenses, remove them if it is easy and rinse again. Consult a doctor. Take this document.
Ingestion:	Do not induce vomiting. Never give anything orally to an unconscious person. Rinse the victim's mouth with plenty of water. Consult a doctor immediately. Take this document.
Most important symptoms and effects, acute and late:	Causes severe eye irritation with redness and pain.
Notes to doctor:	Avoid contact with the product when helping the victim. If necessary, symptomatic treatment should include, above all, supportive measures such as correction of water-electrolyte and metabolic disorders, in addition to respiratory assistance. In case of contact with the skin, do not rub the affected area.

5 - FIRE-FIGHTING MEASURES

Extinguishing media:	Suitable: carbon dioxide (CO _{two}), foam, water mist and chemical dust. Unsuitable: direct water jets.
Specific hazards originating from substance or mixture:	The combustion of the chemical product or its packaging can form irritating and toxic gases such as carbon monoxide and dioxide. Vapors can be denser than air and tend to accumulate in low-lying or confined areas such as storm drains and basements. Containers may explode if heated.
Protective measures specials for the firefighting team:	Use self-contained respiratory protection equipment (SCBA) with positive pressure and complete protective clothing. Containers and tanks involved in the fire must be cooled with water mist.

6 - CONTROL MEASURES FOR SPILLS OR LEAKS

Personal precautions, protective equipment and emergency procedures

For non-emergency services personnel:	Do not smoke. Avoid contact with the product. If necessary, use personal protective equipment as described in section 8.
For emergency service personnel:	Preventively isolate the leak from ignition sources. Wear full PPE with safety glasses, safety gloves, suitable protective clothing and closed-toe shoes. In the event of a leak, where exposure is high, it is recommended to use an appropriate respiratory protection mask.
Precautions in the environment environment:	Prevent spilled product from reaching waterways and sewage systems.
Method and materials for containment and cleaning:	Use water mist or vapor suppressant foam to reduce vapor dispersion. Use natural or spill containment barriers. Collect spilled product and place in appropriate containers. Adsorb the remaining product with dry sand, earth, vermiculite, or

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any other inert material. Place the adsorbed material in appropriate containers and remove them to a safe location. Use non-sparking tools to collect absorbed material.

7 - HANDLING AND STORAGE

Appropriate technical measures for handling

Precautions for safe handling: Handle in a ventilated area or with a general local ventilation/exhaust system. Avoid formation of vapors and mists. If necessary, use personal protective equipment as described in section 8.

Hygiene measures: Wash your hands and face thoroughly after handling and before eating, drinking, smoking or using the bathroom.

Safe storage conditions, including any incompatibilities

Fire prevention and explosion: The product is not expected to present a fire or explosion hazard.

Suitable conditions: Store in a well-ventilated place away from sunlight. Keep the container closed. No addition of stabilizers and antioxidants is necessary to ensure durability.

Suitable materials for packaging: Similar to the original packaging.

Inappropriate materials for packaging: No unsuitable materials are known.

8 - EXPOSURE CONTROL AND PERSONAL PROTECTION

Control parameters

Exposure limit occupational: Not established.

Biological indicators: Not established.

Other limits and values: Not established.

Engineering control measures: Provide mechanical ventilation and a direct exhaust system to the outside environment. These measures help reduce exposure to the product.

Personal protection measures

Protection of eyes/face: Glasses with side protection, which must be impact resistant and offer protection against splashes.

Skin protection: Body protection should be chosen depending on the activity and possible exposure, for example: apron, protective boots, chemical protective clothing (according to EN 14605 in case of splashes or to EN ISO 13982 in case of dust formation). Suitable protective gloves. Butyl rubber (VB) and nitrile rubber (NBR- thickness: 0.38 mm).

Breath protection: A risk assessment must be carried out to adequately define respiratory protection taking into account the conditions of use of the material. Follow guidance from the Respiratory Protection Program (PPR), Fundacentro.

Thermal hazards: Does not present thermal hazards.

9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Viscous liquid.

Color: Dark brown.

Odor: Smooth and with an astringent flavor.

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Melting point/point freezing:	- 13°C.	
Boiling point or initial boiling point and boiling range:	Not available.	
Flammability:	Not available.	
Lower and upper explosive limit/ flammability:	Not available.	
Flash point:	Not available.	
temperature autoignition:	Not available.	
temperature decomposition:	Not available.	
pH:	1.5 to 3 (10% solution).	
Kinematic viscosity:	Not available.	
Solubility:	Miscible in water.	
Partition coefficient – n-octanol/water (log value K_{ow}):	Not available.	
Steam pressure:	Not available.	
Density and/or relative density:	Absolute density: 1.11 to 1.15 g/cm ³ at 23 °C.	
Vapor density relative:	Not available.	
Features of particle:	Not applicable.	
Other information:	Dynamic viscosity: ≤ 30 to 25 °C.	

10 - STABILITY AND REACTIVITY

Reactivity:	Reactivity is not expected under normal temperature and pressure conditions.
Chemical stability:	Product stable under normal temperature and pressure conditions.
Possibility of dangerous reactions:	No dangerous reactions are known with respect to the material.
Conditions to be avoided:	High temperatures.
Incompatible materials:	No incompatible materials are known.
Dangerous products from decomposition:	No dangerous decomposition products are known.

11 - TOXICOLOGICAL INFORMATION

Acute toxicity:	Product not classified as acutely toxic. Dermal ETAm: > 5000 mg/kg. ETAm Vapors (4h): > 20 mg/L. DL ₅₀ Oral (mice): 9241 mg/kg. ETAm Dust and mist (4h): > 5 mg/L.
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Corrosion/irritation of skin:	Not expected to cause skin irritation.	
Eye injuries serious/eye irritation:	Causes severe eye irritation with redness and pain.	
Awareness respiratory or skin:	Respiratory or skin sensitization is not expected.	
Mutagenicity in germ cells:	It is not expected to present mutagenicity in germ cells.	
Carcinogenicity:	It is not expected to be carcinogenic.	
Toxicity to reproduction:	It is not expected to present reproductive toxicity.	
Specific target organ toxicity – single exposure:	It is not expected to present specific target organ toxicity from a single exposure.	
Organ toxicity- repeated exposure:	Not expected to exhibit specific target organ toxicity upon repeated exposure. specific targets – repeated exposure:	
Aspiration hazard:	Not expected to present an aspiration hazard.	

12 - ECOLOGICAL INFORMATION

Ecotoxicity:	Toxic to aquatic organisms. CEr ₅₀ (<i>Skeletonema costatum</i> , 72 h): 7.4 mg/L.
Persistence and degradability:	It is not expected to present persistence and degradability.
Potential bioaccumulative:	It has low bioaccumulative potential in aquatic organisms.
Soil mobility:	Not determined.
Other effects adverse:	Due to the acidic nature of the product, it can cause changes in environmental compartments, causing damage to organisms.

13 - CONSIDERATIONS ABOUT FINAL DESTINATION

Recommended methods for final disposal

Product:	Treatment and disposal must be evaluated specifically for each product. Federal, state and municipal legislation must be consulted, including: Law No. 12,305, of August 2, 2010 (National Solid Waste Policy).
Product remains:	Keep product residues in their original packaging and properly closed. Disposal must be carried out as established for the product.
Packaging used:	Do not reuse empty packaging. These may contain residues of the product and must be kept closed and sent for appropriate disposal as established for the product.

14 - TRANSPORTATION INFORMATION

National and international regulations

Terrestrial:	ANTT - National Land Transport Agency: • Resolution No. 5,998, of November 3, 2022: <i>Updates the Regulation for the Road Transport of Dangerous Products, approves its Supplementary Instructions, and takes other measures.</i>
UN number:	Not classified as dangerous for land transport.

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Waterway: DPC - Directorate of Ports and Coasts (Transport in Brazilian waters). Maritime Authority Standards:

- NORMAM 01/DPC: Vessels Used in Open Sea Navigation.
- NORMAM 02/DPC: Vessels Used in Inland Navigation.
- NORMAM 05/DPC: Material Approval.

IMO - *International Maritime Organization* (International Maritime Organization):

- IMDG Code - *International Maritime Dangerous Goods Code* (Maritime Code International Association of Dangerous Goods).

UN number: Not classified as dangerous for water transport.

Danger to the Environment
Environment:

It is not considered a marine pollutant for transport.

Air: ANAC - National Civil Aviation Agency: Resolution No. 714, of April 26, 2023. RBAC (Brazilian Civil Aviation Regulation) No. 175:

- Transport of Dangerous Goods in Civil Aircraft.
- IS N° 175-001 - Supplementary Instruction.

ICAO (International Civil Aviation Organization):

- Doc 9284 AN/905 (Technical Instructions for the Safe Transport of Dangerous Goods by Air).

IATA - *International Air Transport Association* (International Air Transport Association):

- DGR - *Dangerous Goods Regulation* (Regulation of Dangerous Products).

UN number: Not classified as dangerous for air transport.

Measures and conditions
specific to
precaution:

Not applicable.

Transport in bulk in
accordance with Annex II
of MARPOL 73/78 and the
IBC Code:

Consult regulations:

- International Maritime Organization: MARPOL: Articles, protocols, annexes, unified interpretations of the International Convention for the Prevention of Pollution from Ships, 1973, as modified by the 1978 Protocol relating thereto, consolidated edition. IMO, London, 2006.
- International Maritime Organization: IBC Code: International code for construction and equipment for the maritime transport of hazardous chemicals in bulk: With relevant standards and guidelines for the code. IMO, London, 2007.

15 - INFORMATION ABOUT REGULATIONS

Regulations specific to the chemical product:	Federal Decree No. 10,088, of November 5, 2019. Standard ABNT-NBR 14725. Regulatory Standard n° 26 (Safety signs), from the Ministry of Labor and Social Security.
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16 - OTHER INFORMATION

Important information, but not specifically described in the previous sections:

This document was prepared based on current knowledge on the appropriate handling of the product and under normal conditions of use, according to the application specified on the packaging. Any other form of use of the product that involves its combination with other materials, in addition to forms of use other than those indicated, is the responsibility of the user. Please note that handling any chemical substance requires prior knowledge of its dangers by the user. In the workplace, it is up to the company using the product to train its employees regarding the possible risks arising from exposure to the chemical product.

Emergency numbers by country:

Australia: +61 2 9037 2994

Canada: +1 703-741-5970

China: 120 4937

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France:+33 9 75 18 14 07
Germany:+49 69 643508409
Germany:0800 1817059
India:000 800 1007 141
Italy:+39 02 4555 7031
Italy:789 767
Japan:+81 3-4520-9637
Malaysia:1-800-81-5308
Mexico:800 681 9531
Netherlands:+31 85 888 0596
New Zealand:425 459
Russia:(800) 100-63-46
Singapore:101 2201
Spain:868 538
Turkey:+90 212 705 53 40
United Kingdom:+44 20 3807 3798
United States: +1 703-741-5970.

Texts of Hazard Phrases (H) mentioned in section 3: H402

Harmful to aquatic organisms.

Change control:

Version	Manufacture date	Changes
02	06/05/2025	There were no changes

Subtitles and Abbreviations:

ACGIH -*American Conference of Governmental Industrial Hygienists*(American Conference of Governmental Industrial Hygienists);

CE_{r50}- Effective concentration that results in a 50% reduction in the growth rate; EC -

European Community(European Community);

EEC -*European Economic Community*(European Economic Community);

ETAm - Estimate of Acute Toxicity of the mixture;

NR - Regulatory Standard; UN - United Nations.

Bibliographic references:

ACGIH - AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS. TLVs® and BEIs®: Based on the Documentation of the Threshold Limit Values (TLVs®) for Chemical Substances and Physical Agents & Biological Exposure Indices (BEIs®). Cincinnati-USA, 2023.

BRAZIL. MINISTRY OF LABOR AND EMPLOYMENT (MTE). Regulatory Standard (NR) No. 15: Unhealthy activities and operations. Brasilia DF. Apr. 2022.

BRAZIL. MINISTRY OF LABOR AND EMPLOYMENT (MTE). Regulatory Standard (NR) No. 7: Occupational health medical control program. Brasilia DF. Jan. 2022.

GHS - GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS. 9th rev. ed. New York: United Nations, 2021.

REACH - REGISTRATION, EVALUATION, AUTHORIZATION AND RESTRICTION OF CHEMICALS. Commission Regulation (EC) No 1272/2008 of December 2008 amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending

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Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals. Available at: <<http://eurlex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2008:353:0001:1355:en:PDF>>. Accessed on: Sep. 2023.