Safety Data Sheet

TG 3124

1. Identification

Product identifier	TG 3124		
Product code	TG 3124		
Other means of identification	None		
Recommended use of the chemical and restrictions on use	High performance purified tannin based corrosion inhibitor and antiscalant. For all steam systems.		
Distributor	ANDERSON CHEMICAL COMPANY 325 South Davis Avenue Litchfield, MN 55355 Phone: (320) 693.2477 Web: www.accomn.com	**Manufacturer**	TGWT CLEAN TECHNOLOGIES INC. 452, Jean-Neveu Longueuil, QC Canada J4G 1N8 Tannins provided by tanninguys.com WATER TREATMENT NETWORK
Emergency phone number	Canutec - Day or night: 1-613-996-6666		1-844-390-TGWT (8498) Monday to Friday, 8:30 am to 4:30 pm

2. Hazard identification

Summary	Avoid all contact with the skin, eyes and clothing. Do not breathe vapors or aerosols. Do not ingest. If medical advice is needed, have this SDS or label at hand. Wear eye protection, gloves and other protective clothing that are adapted to the task being performed and the risks involved.

WHMIS 2015/GHS/OSHA HCS 2012

Skin irritation (Category 2)
Serious eye damage (Category 1)

DANGER
H318: Causes serious eye damage
H315: Causes skin irritation
P264: Wash face, hands and any exposed skin thoroughly after handling.
P280: Wear protective gloves, protective clothing and eye protection.
P302+P352: IF ON SKIN: Wash with plenty of water and soap.
P332+P313: If skin irritation occurs: Get medical advice/attention.
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.
P362+P364: Take off contaminated clothing and wash it before reuse.

3. Composition/information on ingredients

Common name	CAS	Weight % content
Purified tannins extracted from cultivated trees	Tannins	15 - 40 %
Tetrasodium salt of EDTA	64-02-8	1 - 5 %
Sodium hydroxide	1310-73-2	<0.1 %

Note: Tannins are a mixture of several oligomers and polymers that are not regulated under the Hazardous Products Regulations (HPR) SOR/2015-17 (WHMIS 2015). The manufacturer withholds the actual concentration range of the ingredients as a trade secret.

4. First-aid measures

Inhalation	Move person to fresh air. If breathing is difficult, give oxygen by trained personnel. If not breathing, give artificial respiration. Do not use mouth-to-mouth resuscitation unless you use a buccal protective device. If a problem develops or persists, seek medical attention.
Skin contact	Flush with water for at least 20 minutes. Suitable emergency safety shower facility should be immediately available. Remove contaminated clothing and wash before reuse. If a problem develops or persists, seek medical attention. Do not take contaminated clothing home to be laundered. Shoes and other leather items which cannot be decontaminated should be properly disposed.
Eye contact	IMMEDIATELY flush with plenty of water. Remove contact lenses after the first 5 minutes if easy to do. Flush with water for at least 30 minutes. Lift eyelids to rinse properly. Do not rub your eyes. Consult a physician, preferably an ophthalmologist. Do not transport the victim until the recommended flushing period is completed, unless a portable emergency eye wash bottle is immediately available.
Ingestion	DO NOT induce vomiting, unless recommended by medical personnel. If victim is conscious wash out mouth with water and give 1-2 glasses of water to drink. Never give anything by mouth if victim is unconscious or convulsing. If spontaneous vomiting occurs, keep head below hip level to prevent aspiration into the lungs. Seek medical attention or contact a Poison Centre immediately.
Other	No additional information.
Symptoms	May cause severe eye irritation or eye damage. May cause redness and irritation of the skin.
Notes to the physician	Treat according to person's condition and specifics of exposure. If gastric lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Probable mucosal damage may contraindicate the use of gastric lavage.

5. Fire-fighting measures

Suitable extinguishing media	Use an extinguishing agent appropriate for the surrounding fire.
Specific hazards arising from the chemical	In a fire or if heated, a pressure increase will occur and the container may burst.
Special protective equipment	Firefighters must wear self contained breathing apparatus with full face mask. Firefighting suit may not be efficient against chemicals.
Special protective actions for fire-fighters	Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Do not touch spilled material. Make sure to wear personal protective equipment mentioned in this Safety Data Sheet.
Environmental precautions	Prevent entry into sewers, closed areas and release to the environment. For a large spill, consult the Department of Environment or the relevant authorities.
Methods and materials for containment and cleaning up	Ventilate the area well. Stop leak, if it's possible to do so without risk. Use caution as spill may create a slip hazard. Move containers from spill area. Absorb with inert material (soil, sand, vermiculite) and place in an appropriate waste disposal clearly identified. Finish cleaning the contaminated surface by rinsing with soapy water. Dispose via a licensed waste disposal contractor.

7. Handling and storage

Precautions for safe handling	Use only in well ventilated area. Avoid all contact with the skin, eyes and clothing. Do not breathe vapors or aerosols. Wear eye protection, gloves and other protective clothing that are adapted to the task being performed and the risks involved. Keep containers tightly closed when not in use. Do not eat, do not drink and do not smoke during use. Wash hands, forearms and face thoroughly after handling this compound. Remove contaminated clothing and wash before reuse.
Conditions for safe storage, including any incompatibilities	Store tightly closed and in properly labelled container in a dry, cool and well ventilated place. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Store away from acids and all incompatible materials (see section 10). Keep away from direct sunlight and heat.
Storage temperature	10 to 49°C (50 to 120.2°F)

8. Exposure controls/personal protection

Immediately Dangerous to Life or Health	Sodium hydroxide: 10 mg/m3.

Sodium hydroxide	Ceiling	2 mg/m^3	ACGIH , BC, ON, RSST

Appropriate engineering controls	Provide sufficient mechanical ventilation (general and/or local exhaust) to keep the airborne concentrations of vapours, mists, aerosols or dust below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are close to the workstation.
Individual protection measures	
Eye	Wear chemical splash goggles. Depending on conditions of use, a face shield may be necessary.
Hands	Wear nitrile or neoprene gloves. Disposable nitrile gloves can also be used, but discard after single use. Before using, user should confirm impermeability. Discard gloves with tears, pinholes, or signs of wear. Gloves must only be worn on clean hands. Wash gloves with water before removing them. After using gloves, hands should be washed and dried thoroughly.
Skin	Personal protective equipment for the body should be selected based on the task being performed and the risks involved. Wear normal work clothing covering arms and legs as required by employer code. Wear chemical proof apron. To clean up a spill, if necessary, wear a synthetic polyethylene coveralls such as the Tychem (DuPont) or equivalent coveralls manufactured to provide protection against liquid chemical.
Respiratory	Respiratory protection is not required for normal use. Where the conditions in the workplace require a respirator, it is necessary to follow a respiratory protection program. Moreover, respiratory protection equipment (RPE) must be selected, fitted, maintained and inspected in accordance with regulations and standard 29 CFR 1910.134 (OSHA), ANSI Z88.2 or CSA Z 94.11 (Canada) and approved by

	NIOSH/MSHA. In case of insufficient ventilation or in confined or enclosed space and for an assigned protection factor (APF) up to 10 times the exposure limit, wear a half mask respirator with organic vapour cartridges fitted with P100 filters. For an APF until maximum 100 times of exposure limit, wear a full face respirator mask with organic vapour cartridges and P100 filters.
Feet	Wear rubber boots to clean up a spill.


Apron


Goggles


Nitrile gloves

9. Physical and chemical properties

Physical state	Liquid	**Flammability**	Non-flammable
Colour	Brown	**Flammability limits**	N/Ap.
Odour	Characteristic	**Flash point**	N/Ap.
Odour threshold	N/Av.	**Auto-ignition temperature**	N/Av.
pH	11.9 to 12.9 @ 100%	**Sensibility to electrostatic charges**	N.Av.
Melting point	N/Av.	**Sensibility to sparks and/or friction**	No
Freezing point	<5°C (41°F)	**Vapour density**	N/Av. (Air = 1)
Boiling point	>100°C (212°F)	**Relative density**	1.12 to 1.17 kg/L (Water = 1)
Solubility	Highly soluble in water	**Partition coefficient n-octanol/water**	N/Av.
Evaporation rate	= Water	**Decomposition temperature**	N/Av.
Vapour pressure	N/Av.	**Viscosity**	N/Av.
Percent Wt. Volatile	N/Av.	**Molecular mass**	N/Ap.
VOC (g/L)	N/Av.	**% Volume Volatile (VOC)**	N/Av.
VOC (lb/gal)	N/Av.	**% Wt. Volatile (VOC)**	N/Av.

N/Av.: Not Available N/Ap.: Not Applicable Und.: Undetermined N/E: Not Established

10. Stability and reactivity

Reactivity	Reactive with acids.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions (including polymerizations)	Hazardous polymerization will not occur.
Conditions to avoid	Avoid contact with incompatible materials.
Incompatible materials	Strong acids, strong oxidants.

Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

Numerical measures of toxicity

Mixture	Ingestion	>4000 mg/kg	Rat	LD50
	Inhalation	>100 mg/l/4h	Rat	LC50
	Skin	>2000 mg/kg	Rabbit	LD50
Purified tannins extracted from cultivated trees	Ingestion	>5000 mg/kg	Rat	LD50
	Skin	>2000 mg/kg	Rabbit	LD50
Tetrasodium salt of EDTA	Ingestion	1700 mg/kg	Rat	LD50
	Inhalation	>5 mg/l/4h	Rat	LC50
	Skin	>2000 mg/kg	Rabbit	LD50
Sodium hydroxide	Ingestion	340 mg/kg	Rat	LD50
	Skin	1350 mg/kg	Rabbit	LD50

Likely routes of exposure

Skin, eyes, inhalation, ingestion.

Delayed, immediate and chronic effects

Eye contact
May cause severe eye irritation or eye damage. The product is considered to be corrosive based on the pH (>11.5) of the solution. Severity is generally determined by concentration of solution and duration of contact.

Skin contact
May cause redness and irritation of the skin. Severity is generally determined by concentration of solution and duration of contact. This product is considered non-corrosive to the skin according to the negative corrosivity result obtained by another product with a similar composition (Corrositex® in vitro Membrane Barrier Test Method for Skin Corrosion, OECD 435).

Inhalation
No adverse effects expected under normal conditions of use.

Ingestion
May cause gastrointestinal irritation with nausea and vomiting.

Respiratory or skin sensitization
Ingredients present at levels greater than or equal to 0.1% of this product are not skin or respiratory sensitizers.

IARC/NTP Classification

Common name	IARC	NTP
Purified tannins extracted from cultivated trees	-	-

IARC : 1- Carcinogenic; 2A- Probably carcinogenic; 2B- Possibly carcinogenic.
NTP : K- Known to be carcinogens; R- Reasonably anticipated to be carcinogens.

Carcinogenicity
Ingredients present at levels greater than or equal to 0.1% of this product are not listed as a carcinogen by IARC, ACGIH, NIOSH, NTP or OSHA.

Mutagenicity
Ingredients in this product present at levels greater than or equal to 0.1% are not known to cause mutagenic effects.

Reproductive toxicity
Ingredients in this product present at levels greater than or equal to 0.1% are not known to cause reproduction effects.

Specific target organ toxicity - single exposure
No target organ is listed.

Specific target organ toxicity - repeated exposure
No target organ is listed.

Interactive effects

No information available for this product.

Other information

No information available for this product.

12. Ecological information

Ecological toxicity	Aquatic Invertebrate - Crustaceans - Ceriodaphnia dubia EC50 520 mg/L; 48 h (TG 3124)
Persistence	Not persistent in environment.
Degradability	Biodegradable (>70% in 28 days).
Bioaccumulative potential	No bioaccumulation.
Mobility in soil	The product is a mixture of which some ingredients have a high mobility in the soil, while other ingredients have a moderate mobility in the soil.
Other adverse effects	This chemical does not deplete the ozone layer. The observed ecological toxicity presented by this product for the environment was considered a result of pH effects.

13. Disposal considerations

Container 	Important! Prevent waste generation. Use in full. DO NOT dispose residue in sewers, streams or drinking water supply. Triple rinse empty container (or equivalent) promptly after emptying and offer for reconditioning if appropriate. Empty the rinse water into a mix tank or store it for later use or disposal. Dispose via a licensed waste disposal contractor. Observe all federal, state/provincial and municipal regulations. If necessary consult the Department of Environment or the relevant authorities.

14. Transport information

UN Number	UN N/A
UN Proper Shipping Name	Not regulated by TDG (Canada) and 49 CFR DOT (USA).
Environmental hazards	This material does not contain marine pollutant.
Special precautions for user	No information available for this product.
TDG - Transportation of Dangerous Goods (Canada & US DOT)	
Transport hazard class(es)	Not regulated
Packing group	Not regulated
2020 Emergency Response Guidebook	N/A
IMO/IMDG - International Maritime Transport	
Classification	Not regulated
IATA - International Air Transport Association	
Classification	Not regulated

These transportation classifications are provided as a customer service. As the shipper YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. In addition, if a domestic exemption exists, it is the responsibility of the shipper to define the application of it.

15. Regulatory information

CANADA

Common name	CAS	CEPA	DSL	NDSL	NPRI
Purified tannins extracted from cultivated trees	Tannins				
Tetrasodium salt of EDTA	64-02-8	X	X		
Sodium hydroxide	1310-73-2	X	X		

- CEPA: List of Toxic Substances Managed Under Canadian Environmental Protection Act
- DSL: Domestic Substances List Inventory
- NDSL: Non-Domestic Substances List Inventory
- NPRI: National Pollutant Release Inventory Substances

UNITED STATE OF AMERICA

Common name	CAS	TSCA	CER CLA	EPCRA 313	EPCRA 302/304	CAA 112(b) HON	CAA 112(b) HAP	CAA 112(r)	CWA 311	CWA Prio.
Purified tannins extracted from cultivated trees	Tannins									
Tetrasodium salt of EDTA	64-02-8	X								
Sodium hydroxide	1310-73-2	X	X						X	

- TSCA: Toxic Substance Control Act
- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act list of hazardous substances
- EPCRA 313: Emergency Planning and Community Right-to-Know Act, Section 313 Toxic Chemicals
- EPCRA 302/304: Emergency Planning and Community Right-to-Know Act, Section 302/304 Extremely Hazardous Substances
- CAA 112(b) HON: Clean Air Act - Hazardous Organic National Emission Standard for Hazardous Air Pollutant
- CAA 112(b) HAP: Clean Air Act - Hazardous Air Pollutants lists pollutants
- CAA 112(r): Clean Air Act - Regulated Chemicals for Accidental Release Prevention
- CWA 311: Clean Water Act - List of Hazardous Substances
- CWA Priority: Clean Water Act - Priority Pollutant list

California Proposition 65

No ingredients listed.

Other regulations	
	HMIS  **NFPA** 

16. Other information

Date (YYYY-MM-DD)	TECHNOLOGIES PROPRES TGWT INC 2025-12-08
Version	05
Other information	REFERENCES: - Service du répertoire toxicologique de la Commission des normes, de l'équité, de la santé et de la sécurité du travail (CNESST), https://www.cnesst.gouv.qc.ca/en - The National Center for Biotechnology Information, National Institutes of Health (NIH), U.S. National

Library of Medicine, https://pubchem.ncbi.nlm.nih.gov
- Haz-Map, Information on Hazardous Chemicals and Occupational Diseases, https://haz-map.com/
- NIOSH Pocket Guide to Chemical Hazards, Centers for Disease Control and Prevention, NIOSH Publications, 2007, https://www.cdc.gov/niosh/npg
DATE OF FIRST VERSION OF SDS:
2015-10-01.
CHANGES MADE IN THE VERSION 02:
section 15.
DATE OF SECOND VERSION OF SDS:
2017-04-19.
CHANGES MADE IN THE VERSION 03:
sections 1, 3, 9, 11 and 15.
DATE OF THIRD VERSION OF SDS:
2019-11-20.
CHANGES MADE IN THE VERSION 04:
sections 1, 3, 8, 9, 10, 11 12, and 15.
DATE OF FOURTH VERSION OF SDS:
2020-02-18.
CHANGES MADE IN THE VERSION 05:
sections 1, 2, 6, 7, 10, 11, 15 and 16.

ACGIH: American Conference of Governmental Industrial Hygienists
AIHA: American Industrial Hygiene Association
HMIS: Hazardous Materials Identification System
NFPA: National Fire Protection Association
OSHA: Occupational Safety and Health Administration (USA)
NIOSH: National Institute for Occupational Safety and Health
NTP: National Toxicology Program
RSST: Règlement sur la santé et la sécurité du travail (Québec)
GHS: Globally Harmonized System
IARC: International Agency for Research on Cancer
IDLH: Immediately Dangerous to Life or Health
STEL: Short Term Exposure Limit (15 min)
TWA: Time Weighted Averages
WHMIS: Workplace Hazardous Materials Information System

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