



### 1. Identification

<b>Product identifier</b>	TG 3304	
<b>Product code</b>	TG 3304	
<b>Other means of identification</b>	None.	
<b>Recommended use of the chemical and restrictions on use</b>	High performance purified tannin based corrosion inhibitor and antiscalant. For all closed loop systems.	
<b>Supplier</b>	ANDERSON CHEMICAL COMPANY 325 South Davis Avenue Litchfield, MN 55355 Phone: (320) 693.2477 Web: www.accomn.com	Purified Tannins provided by TGWT - The Tannin Guys® 
<b>Emergency phone number</b>	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

<b>Summary</b>	Avoid all contact with the skin, eyes and clothing. Do not breathe vapours, mists 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.	
<b>WHMIS 2015/GHS/OSHA HCS 2012</b>		
<div style="display: flex; align-items: flex-start;"> <div style="margin-right: 10px;">  </div> <div> <p>Skin irritation (Category 2)                      Serious eye damage (Category 1)</p> <p><b>DANGER</b></p> <p>H318: Causes serious eye damage                      H315: Causes skin irritation</p> <p>P264: Wash face, hands and any exposed skin thoroughly after handling.                      P280: Wear protective gloves, protective clothing and eye protection.                      P302+352: IF ON SKIN: Wash with plenty of water and soap.                      P332+313: If skin irritation occurs: Get medical advice or attention.                      P305+351+338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.                      P310: Immediately call a POISON CENTER or a doctor.                      P362+364: Take off contaminated clothing and wash before reuse.                      P501: Dispose of contents and container to a licensed chemical disposal agency in accordance with local, regional and national regulations.</p> </div> </div>		

### 3. Composition/information on ingredients

Common name	CAS	Weight % content
Purified tannins extracted from cultivated trees	Tannins	15 - 40 %
Sodium hydroxide	1310-73-2	0.1 - 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

<b>Inhalation</b>	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.
<b>Skin contact</b>	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.
<b>Eye contact</b>	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. Hold eyelids apart 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.
<b>Ingestion</b>	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.
<b>Other</b>	No information available.
<b>Symptoms</b>	May cause severe eye irritation or eye damage. May cause redness and irritation of the skin.
<b>Notes to the physician</b>	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

<b>Suitable extinguishing media</b>	Use an extinguishing agent appropriate for the surrounding fire.
<b>Specific hazards arising from the chemical</b>	This product is an aqueous solution which does not support combustion unless the water has been evaporated. In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Special protective equipment</b>	Firefighters must wear self contained breathing apparatus with full face mask. Firefighting suit may not be efficient against chemicals.
<b>Special protective actions for fire-fighters</b>	Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply.

## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Do not touch spilled material. Make sure to wear personal protective equipment mentioned in this Safety Data Sheet.
<b>Environmental precautions</b>	Prevent entry into sewers, closed areas and release to the environment. For a large spill, consult the Department of Environment or the relevant authorities.
<b>Methods and materials for containment and cleaning up</b>	Ventilate the area well. Do not breathe vapors and mists. Stop leak, if it's possible to do so without risk. 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. Use caution as spill may create a slip hazard. Dispose via a licensed waste disposal contractor.

## 7. Handling and storage

<b>Precautions for safe handling</b>	Use only in well ventilated area. Avoid all contact with the skin, eyes and clothing. Do not breathe vapors and mists. Make sure to wear personal protective equipment mentioned in this Safety Data Sheet. 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.
<b>Conditions for safe storage, including any incompatibilities</b>	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 from incompatible materials (see section 10). Keep away from direct sunlight and heat.
<b>Storage temperature</b>	10 to 49°C (50 to 120.2°F)

## 8. Exposure controls/personal protection

<b>Immediately Dangerous to Life or Health</b>	Sodium hydroxide: 10 mg/m <sup>3</sup> .		
Sodium hydroxide	Ceiling	2 mg/m <sup>3</sup>	ACGIH , BC, ON, RSST
<b>Appropriate engineering controls</b>	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.		
<b>Individual protection measures</b>			
<b>Eye</b>	Wear chemical splash goggles. Depending on conditions of use, a face shield may be necessary.		
<b>Hands</b>	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.		
<b>Skin</b>	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. If necessary, wear an apron or long-sleeve protective coverall suit.		
<b>Respiratory</b>	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

<b>Physical state</b>	Liquid	<b>Flammability</b>	Non-flammable
<b>Colour</b>	Brown	<b>Flammability limits</b>	N/Ap.
<b>Odour</b>	Characteristic	<b>Flash point</b>	N/Ap.
<b>Odour threshold</b>	N/Av.	<b>Auto-ignition temperature</b>	N/Av.
<b>pH</b>	11.6 to 12.6 @ 100%	<b>Sensibility to electrostatic charges</b>	N.Det.
<b>Melting point</b>	N/Ap.	<b>Sensibility to sparks and/or friction</b>	N.Det.
<b>Freezing point</b>	<5°C (41°F)	<b>Vapour density</b>	N/Av. (Air = 1)
<b>Boiling point</b>	>100°C (212°F)	<b>Relative density</b>	1.1 to 1.16 kg/L (Water = 1)
<b>Solubility</b>	Highly soluble in water.	<b>Partition coefficient n-octanol/water</b>	N/Av.
<b>Evaporation rate</b>	= Water	<b>Decomposition temperature</b>	N/Av.
<b>Vapour pressure</b>	N/Av.	<b>Viscosity</b>	N/Av.
<b>Percent Volatile</b>	N/Av.	<b>Molecular mass</b>	N/Ap.

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

## 10. Stability and reactivity

<b>Reactivity</b>	Reactive with acids.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions (including polymerizations)</b>	Hazardous polymerization will not occur.
<b>Conditions to avoid</b>	Avoid contact with incompatible materials.
<b>Incompatible materials</b>	Strong acids, strong oxidizing agents (e.g. chlorine, fluorine, nitric acid, perchloric acid, peroxides, nitrates, chlorates, chromates, permanganates and perchlorates).
<b>Hazardous decomposition products</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11. Toxicological information


<b>Numerical measures of toxicity</b>	<table border="0"> <tr> <td>Mixture</td> <td>Ingestion &gt;8000 mg/kg Rat LD50</td> </tr> <tr> <td></td> <td>Inhalation &gt;20 mg/l/4h Rat LC50</td> </tr> <tr> <td></td> <td>Skin &gt;2000 mg/kg Rabbit LD50</td> </tr> <tr> <td>Purified tannins extracted from cultivated trees</td> <td>Ingestion &gt;5000 mg/kg Rat LD50</td> </tr> <tr> <td></td> <td>Skin &gt;2000 mg/kg Rabbit LD50</td> </tr> <tr> <td>Sodium hydroxide</td> <td>Ingestion 340 mg/kg Rat LD50</td> </tr> <tr> <td></td> <td>Skin 1350 mg/kg Rabbit LD50</td> </tr> </table>	Mixture	Ingestion >8000 mg/kg Rat LD50		Inhalation >20 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	Sodium hydroxide	Ingestion 340 mg/kg Rat LD50		Skin 1350 mg/kg Rabbit LD50												
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<b>Likely routes of exposure</b>	Skin, eyes, inhalation, ingestion.																										
<b>Delayed, immediate and chronic effects</b>	<table border="0"> <tr> <td><b>Eye contact</b></td> <td>May cause severe eye irritation or eye damage. The product is considered to be corrosive based on the pH (&gt;11.5) of the solution. Severity is generally determined by concentration of solution and duration of contact.</td> </tr> <tr> <td><b>Skin contact</b></td> <td>May cause redness and irritation of the skin. Severity is generally determined by concentration of solution and duration of contact. The product TG 3304 has been tested with Corrositex® in vitro Membrane Barrier Test Method for Skin Corrosion (OECD 435). It is considered non-corrosive to the skin.</td> </tr> <tr> <td><b>Inhalation</b></td> <td>No adverse effects expected under normal conditions of use.</td> </tr> <tr> <td><b>Ingestion</b></td> <td>May cause gastrointestinal irritation with nausea and vomiting.</td> </tr> <tr> <td><b>Respiratory or skin sensitization</b></td> <td>Ingredients present at levels greater than or equal to 0.1% of this product are not skin or respiratory sensitizers.</td> </tr> <tr> <td><b>IARC/NTP Classification</b></td> <td> <table border="0"> <tr> <td><b>Common name</b></td> <td><b>IARC NTP</b></td> </tr> <tr> <td>Purified tannins extracted from cultivated trees</td> <td>- -</td> </tr> </table>                     IARC : 1- Carcinogenic; 2A- Probably carcinogenic; 2B- Possibly carcinogenic.                      NTP : K- Known to be carcinogens; R- Reasonably anticipated to be carcinogens.                 </td> </tr> <tr> <td><b>Carcinogenicity</b></td> <td>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.</td> </tr> <tr> <td><b>Mutagenicity</b></td> <td>Ingredients in this product present at levels greater than or equal to 0.1% are not known to cause mutagenic effects.</td> </tr> <tr> <td><b>Reproductive toxicity</b></td> <td>Ingredients in this product present at levels greater than or equal to 0.1% are not known to cause reproduction effects.</td> </tr> <tr> <td><b>Specific target organ toxicity - single exposure</b></td> <td>No target organ is listed.</td> </tr> <tr> <td><b>Specific target organ toxicity - repeated exposure</b></td> <td>No target organ is listed.</td> </tr> </table>	<b>Eye contact</b>	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.	<b>Skin contact</b>	May cause redness and irritation of the skin. Severity is generally determined by concentration of solution and duration of contact. The product TG 3304 has been tested with Corrositex® in vitro Membrane Barrier Test Method for Skin Corrosion (OECD 435). It is considered non-corrosive to the skin.	<b>Inhalation</b>	No adverse effects expected under normal conditions of use.	<b>Ingestion</b>	May cause gastrointestinal irritation with nausea and vomiting.	<b>Respiratory or skin sensitization</b>	Ingredients present at levels greater than or equal to 0.1% of this product are not skin or respiratory sensitizers.	<b>IARC/NTP Classification</b>	<table border="0"> <tr> <td><b>Common name</b></td> <td><b>IARC NTP</b></td> </tr> <tr> <td>Purified tannins extracted from cultivated trees</td> <td>- -</td> </tr> </table> IARC : 1- Carcinogenic; 2A- Probably carcinogenic; 2B- Possibly carcinogenic. NTP : K- Known to be carcinogens; R- Reasonably anticipated to be carcinogens.	<b>Common name</b>	<b>IARC NTP</b>	Purified tannins extracted from cultivated trees	- -	<b>Carcinogenicity</b>	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.	<b>Mutagenicity</b>	Ingredients in this product present at levels greater than or equal to 0.1% are not known to cause mutagenic effects.	<b>Reproductive toxicity</b>	Ingredients in this product present at levels greater than or equal to 0.1% are not known to cause reproduction effects.	<b>Specific target organ toxicity - single exposure</b>	No target organ is listed.	<b>Specific target organ toxicity - repeated exposure</b>	No target organ is listed.
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<b>Interactive effects</b>	No information available for this product.																										
<b>Other information</b>	The oral and skin acute toxicity estimates (ATE) of the mixture were calculated to be greater than 2000 mg/kg. The acute toxicity estimate (ATE) by inhalation of the mixture was calculated to be greater than 20 mg/L/4h. These values are not classified according to WHMIS 2015 and OSHA HCS 2012.																										

## 12. Ecological information

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<b>Persistence</b>	Not persistent in environment.				
<b>Degradability</b>	Biodegradable (>70% in 28 days).				
<b>Bioaccumulative potential</b>	No bioaccumulation.				

<b>Mobility in soil</b>	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.
<b>Other adverse effects</b>	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

 <b>Container</b>	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.
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### 14. Transport information

<b>UN Number</b>	UN N/A
<b>UN Proper Shipping Name</b>	Not regulated by TDG (Canada) and 49 CFR DOT (USA).
<b>Environmental hazards</b>	This material does not contain marine pollutant.
<b>Special precautions for user</b>	No information available for this product.
<b>TDG - Transportation of Dangerous Goods (Canada)</b>	
<b>Transport hazard class(es)</b>	Not regulated
<b>Packing group</b>	Not regulated
<b>Emergency response guidebook 2016</b>	
<b>IMO/IMDG - International Maritime Transport</b>	
<b>Classification</b>	Not regulated
<b>IATA - International Air Transport Association</b>	
<b>Classification</b>	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				
Sodium hydroxide	1310-73-2		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									
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.

<b>Other regulations</b>	
	<b>HMIS</b> <b>NFPA</b> 

## 16. Other information

<b>Date (YYYY-MM-DD)</b>	TGWT CLEAN TECHNOLOGIES INC 2020-02-18
<b>Version</b>	04
<b>Other information</b>	<p>REFERENCES:</p> <ul style="list-style-type: none"> <li>- Service du répertoire toxicologique de la Commission des normes, de l'équité, de la santé et de la sécurité du travail (CNESST), <a href="http://www.reptox.csst.qc.ca">http://www.reptox.csst.qc.ca</a></li> <li>- NIOSH Pocket Guide to Chemical Hazards, Centers for Disease Control and Prevention, NIOSH Publications, 2007, <a href="http://www.cdc.gov/niosh/npg/npg.html">http://www.cdc.gov/niosh/npg/npg.html</a></li> <li>- TOXNET Databases, Toxicology Data Network, NIH U.S. National Library of Medicine, <a href="http://toxnet.nlm.nih.gov/">http://toxnet.nlm.nih.gov/</a></li> <li>- The National Center for Biotechnology Information, National Institutes of Health (NIH), U.S. National Library of Medicine, <a href="https://pubchem.ncbi.nlm.nih.gov/">https://pubchem.ncbi.nlm.nih.gov/</a></li> </ul> <p>DATE OF FIRST VERSION OF SDS: 2015-09-29.</p> <p>CHANGES MADE IN THE VERSION 02: sections 1, 3 and 15.</p> <p>DATE OF THIRD VERSION OF SDS: 2019-11-05.</p> <p>CHANGES MADE IN THE VERSION 03: sections 1, 3, 9, 11 and 15.</p> <p>DATE OF THIRD VERSION OF SDS: 2019-11-20.</p> <p>CHANGES MADE IN THE VERSION 04: sections 1, 11, 12 and 15.</p> <p>ACGIH: American Conference of Governmental Industrial Hygienists</p>

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

To the best of our knowledge, the information contained herein is accurate. However, neither Priziventis System nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.