

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	AnarPrime™ 2-in-1 Primer and Sealer
Company Name:	NanoTech Innovation Inc.
Website	www.nanotechinnovation.ca
Address	289-2366 Main Mall Vancouver BC, Canada
Phone	+1 (604) 401-6402
Intended Use:	To transform rust, on corroded metals to an anti-corrosion protective barrier and a primer
Additional Information	NanoTech AnarPrime™ is a water-based primer that contains three sets of ingredients. The first type, react with iron oxide (rust) and chemically convert it to a dark-colored stable complex. The second type of ingredients, improve coating stability and mechanical resistance. The third type is an organic polymer that provides a protective primer layer. The overall chemical reaction converts rust into a stable, black protective polymeric coating that serves as an excellent primer for both oil and epoxy based paints.

2. HAZARDS IDENTIFICATION

Hazard Rating System:	No Hazardous as specified in Directive 67/548/EEC (The product is RoHS and REACH compliant)
	WHMIS categories: Flammable Liquid: Category 4 Acute Toxicity (oral): Category 4 Eye Damage/Irritation: Category 2A Skin Corrosion/Irritation: Category 2
GHS Classification (Hazcom 2012):	Not hazardous in accordance with the OSHA Hazard Communication Standard (29CFR 1910.1200).
GHS Signal Word:	Not Required
Label Elements	Not Required
GHS Phrases:	Not required
Precautionary phrases	Keep out of reach of children. Keep container tightly closed. Keep only in original container. Avoid breathing mist. Wash with soap and water after use. Use personal protective equipment as required. If medical advice is needed, have product container or label at hand.
Response	Eyes: IF IN EYES: Rinse with water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention. Skin: Wash with soap and water. If skin irritation occurs: Get medical advice / attention. Ingestion: IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth. Inhalation: IF INHALED: Remove to fresh air if breathing is labored.



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GHS Storage and Disposal Phrases:

P405: Store locked up. Keep away from children
P501: Dispose of contents/container according to local, state and federal regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration	RTECS #
1401-55-4	Tannic Acid	XX	XX
111-76-2	2-Butoxyethanol	XX	XX
Other Hazards	NOT KNOWN		
Additional Chemical Information	Specific percentage of composition is being withheld as a trade secret.		

4. FIRST AID MEASURES

Emergency and First Aid Procedures:

Inhalation:	If user experiences breathing difficulty, move to air free of vapors. Administer oxygen or artificial respiration until medical assistance can be reached.
Skin Contact:	Wash with soap and large quantities of water and seek medical attention if irritation from contact persists.
Eye Contact:	Flush with large quantities of water for at least 15 minutes and seek immediate medical attention.
Ingestion:	Call your poison control center, hospital emergency room, or physician immediately for instructions.
Note to Physician:	Call your local poison control center for further instructions.

5. FIRE FIGHTING MEASURES

Flash Pt:	No Flashpoint
Explosive Limits:	No Data
Suitable Extinguishing Media:	Non-combustible liquid - use extinguishing media for underlying cause of fire. This product is water based and will not burn. Use water spray to cool containers or fog, foam, carbon dioxide or dry chemical.
Special Hazards Arising from the Chemical:	This compound will not burn. Water fog may be used to cool the containers but do not spray directly into large containers of burning liquids as frothing may occur. Dense smoke and noxious or toxic fumes may be generated in a fire. The thermal decomposition products are highly dependent upon the combustion conditions. Noxious or toxic fumes may be generated, some of which may be toxic or irritating.

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Unsuitable Extinguishing Media:	None known.
Fire Fighting Instructions:	Material is non-combustible, no special procedures required. As in any fire, self-contained respiratory protection should be provided for fire fighters fighting fires in buildings or confined areas.

6. ACCIDENTAL RELEASE MEASURES

Steps To Be Taken in Case Material is Released or Spilled:	<p>Clean Up: Keep unnecessary people away; Keep out of sewers, waterways, and bodies of water. Report spills and releases as required to appropriate authorities.</p> <p>Take up liquid with absorbent material and/or cloth and place in a container for disposal. Wash the area with water.</p> <p>Wear appropriate personal protective equipment.</p> <p>Use caution: slip hazard.</p>
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7. HANDLING AND STORAGE

Precautions To Be Taken in Handling:	<p>Avoid contact with eyes. Avoid prolonged skin contact Do not transfer to unlabeled containers. Read carefully all cautions and directions on product label before use. Since empty container retains residue, follow all label warnings even after container is empty. Dispose of empty container according to all regulations. Do not reuse the container.</p>
Precautions To Be Taken in Storing:	<p>Keep container tightly closed when not in use. Store in a cool, dry place. Protect from freezing. Avoid extreme high or low temperatures. Store away from oxidizers.</p>

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
1401-55-4	Tannic acid	Not established	Not established	No data.
111-76-2	2-Butoxyethanol	PEL: 25 ppm	TLV: 25 ppm	No data.

Respiratory Equipment (Specify Type):	<p>Use with adequate general or local exhaust ventilation to maintain exposure levels below the exposure limits.</p> <p>For OSHA controlled work place and other regular users. Use only with adequate ventilation under engineered air control systems designed to prevent exceeding appropriate TLV. For occasional use, where engineered air control is not feasible, use properly maintained and properly fitted NIOSH approved respirator for organic solvent vapors to keep vapors below applicable exposure limits. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 and good industrial hygiene practice.</p>
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Eye Protection:	Safety glasses, chemical goggles or face shields are recommended to safeguard against potential eye contact, irritation, or injury.
Protective Gloves:	Impervious gloves such as rubber or nitrile recommended where needed to avoid prolonged skin contact.
Other Protective Clothing:	Various application methods can dictate use of additional protective safety equipment.
Work/Hygienic /Maintenance Practices:	Wash hands thoroughly after use and before eating, drinking, or smoking. Do not eat, drink, or smoke in the work area. Facilities storing or handling this material should be equipped with an emergency eyewash and safety shower.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States:	Liquid
Auto-ignition Pt:	No data.
Melting Point:	No data.
Boiling Point:	> 212.00 F
Flash Pt:	NE
Explosive Limits:	LEL: No data. UEL: No data.
Specific Gravity (Water = 1):	1.1
Density:	1.3
Appearance and Odor:	BROWN COLOR
Vapor Pressure (vs. Air or mm Hg):	< 1 MM HG
Evaporation Rate:	No data
Solubility in Water:	Soluble
Percent Volatile:	N.D.
pH:	6 – 6.5
Vapor Density (vs. Air = 1):	No data.
VOC Content	No VOC

10. STABILITY AND REACTIVITY

Conditions To Avoid -	No data available.
Stability:	Stable under normal storage and handling conditions.
Incompatibility - Materials	Strong oxidizing agents and strong bases.

Avoid: Avoid strong oxidizing agents and acids.

Hazardous Decomposition or Byproducts: The thermal decomposition products are highly dependent upon
Possibility of Hazard the combustion conditions. Noxious or toxic fumes may be generated, some of which may be toxic or irritating.

11. TOXICOLOGICAL INFORMATION

Toxicological Information: This product has not been tested as a whole. Refer to section 2 for acute and chronic health effects.

CAS# 111-76-2:
 Acute toxicity, LC50, Inhalation, Rat, 450.0 PPM, 4 H.
 Result:
 Behavioral: ataxia.
 Nutritional and gross metabolic: weight loss or decreased weight gain.
 Toxicology and applied pharmacology, academic press, inc., 1 e. First st., Duluth, Mn55802, vol/p/yr: 68,405, 1983
 Acute toxicity, ld50, skin, species: rabbit, 220.0 mg/kg.
 Result:
 Effects on embryo or fetus: extra embryonic structures (e.g., placenta, Umbilical cord).
 Effects on embryo or fetus: other effects to embryo.
 Specific developmental abnormalities: musculoskeletal system.
 Dow chemical company reports., Dow chemical USA, health and environment Research, toxicology research lab, midland, mi 48640, vol/p/yr: msd-46, acute Toxicity, ld50, oral, rat, 250.0 mg/kg.
 Chronic toxicological effects: result: 25000
 Lungs, thorax, or respiration: changes in pulmonary vascular resistance.
 Standard Draize test, eyes, species: rabbit, 100.0 mg, severe.
 Result:
 Effects on newborn: Apgar score (human only).
 Effects on newborn: other neonatal measures or effects.
 Effects on newborn: drug dependency.
 American journal of ophthalmology., ophthalmic pub. Co., 435 n. Michigan Ave., suite 1415, Chicago, il 60611, vol/p/yr: 29,1363, 1946
 This product has not been tested as a whole.
 CAS # hazardous components (chemical name) NTP IARC ACGIH
 Osha

12. ECOLOGICAL INFORMATION

The product contains following substances which are hazardous for the environment.

Component	Freshwater algae	Freshwater fish	Microtox	Water Flea
Tannic Acid	Not listed	37mg/L LC50, 96h	Not listed	Not listed



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2-Butoxyethanol	Not Listed	>100mg/L, LC50 96h	Not listed	Not listed
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Bio-accumulative Potential: Not expected to bioaccumulate

Mobility in Soil: No Data

Other Adverse Effects: No Data

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose in accordance with applicable local, state and federal regulations.

Dispose of in a responsible manner. Do not discharge into sewers or waterways. Incineration is the preferred method of disposal, although it may be land filled at an approved facility.

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name: Not Regulated

DOT Hazard Class: None **UN Number:** None

UN/NA Number: Not Regulated

LAND TRANSPORT (US DOT): Not Regulated

Packing Group: None

IMDG

Shipping Description: Not Regulated

Hazard Class: None **Identification Number:** None **Packing Group:** none

ICAO/IATA

Shipping Description: Not Regulated

ID Number: Not Regulated **Hazard Class:** Not Regulated

Packing Group: None

15. REGULATORY INFORMATION

CERCLA Hazardous Substances (Section 103)/RQ: This product is not subject to reporting requirements under CERCLA. However, many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

SARA 302: No chemicals are subject to the reporting requirements.

SARA Hazard Category (311/312): Not Hazardous

SARA 313: This product contains the following chemicals regulated under SARA Title III, section 313: None



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COMPANY POLICY OR DISCLAIMER:

The information contained herein is presented in good faith and believed to be accurate as of the effective date shown above. This information is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources

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