Safety Data Sheet
RUST TREET

SECTION 1: Identification

GHS Product identifier

Product name	RUST TREET
Product number	CT-248

Distributor's details

Name	Interchem Limited
Address	9th Avenue South, Barataria, Trinidad & Tobago
Telephone	(868) 235-CHEM (2436)
Email	sales@interchem.co.tt

SECTION 2: Hazard identification

Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200)

- Acute toxicity, inhalation, Cat. 5
- Eye damage/irritation, Cat. 1
- Skin corrosion/irritation, Cat. 1B
- Acute toxicity, dermal, Cat. 3
- Acute toxicity, oral, Cat. 3
- Acute toxicity, oral, Cat. 4

GHS label elements, including precautionary statements

Pictogram

1. Corrosion; 2. Skull and crossbones; 3. Exclamation mark

Signal word	**Danger**

Hazard statement(s)

H301	Toxic if swallowed
H302	Harmful if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage

Precautionary statement(s)

P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash … thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
P301+P312	IF SWALLOWED: Call a POISON CENTER /doctor/...if you feel unwell,
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+P352	IF ON SKIN: Wash with plenty of water/...
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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/doctor/...
P312	Call a POISON CENTER/doctor/.../ if you feel unwell.
	P330Rinse mouth.
P361+P364	Take off immediately all contaminated clothing and wash it before reuse.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/container

SECTION 3: Composition/information on ingredients

Mixtures

Hazardous components

Component	Concentration
Phosphoric acid (CAS no.: 7664-38-2; EC no.: 231-633-2; Index no.: 015-011-00-6)	**Not specified**
CLASSIFICATIONS: Skin corrosion/irritation, Cat. 1B. HAZARDS: H314 - Causes severe skin burns and eye damage. [SCLs/M-factors/ATEs]: Skin Corr. 1B; H314: C ≥ 25 %; Skin Irrit. 2; H315: 10 % ≤ C < 25 %; Eye Irrit. 2; H319: 10 % ≤ C < 25 %	
Butoxyethanol (CAS no.: 111-76-2; EC no.: 203-905-0; Index no.: 603-014-00-0)	**Not specified**
CLASSIFICATIONS: Flammable liquids, Cat. 4; Acute toxicity, dermal, Cat. 4; Acute toxicity, inhalation, Cat. 4; Acute toxicity, oral, Cat. 4; Skin corrosion/irritation, Cat. 2; Eye damage/irritation, Cat. 2A. HAZARDS: H227 - Combustible liquid; H302 - Harmful if swallowed; H312 - Harmful in contact with skin; H315 - Causes skin irritation; H319 - Causes serious eye irritation; H332 - Harmful if inhaled. [SCLs/M-factors/ATEs]: Oral: ATE = 1200 mg/kg	
Ammonium bifluoride (CAS no.: 1341-49-7; EC no.: 215-676-4; Index no.: 009-009-00-4)	**Not specified**
CLASSIFICATIONS: Acute toxicity, oral, Cat. 3; Skin corrosion/irritation, Cat. 1B. HAZARDS: H301 - Toxic if swallowed; H314 - Causes severe skin burns and eye damage. [SCLs/M-factors/ATEs]: *; Skin Corr. 1B; H314: C ≥ 1 %; Skin Irrit. 2; H315: 0,1 % ≤ C < 1 %; Eye Irrit. 2; H319: 0,1 % ≤ C < 1 %	

Trade secret statement (OSHA 1910.1200(i))
*The specific chemical identities and/or actual concentrations or actual concentration ranges for one or more listed components are being withheld as trade secrets under the US regulation 29 CFR 1910.1200(i).

SECTION 4: First-aid measures

Description of necessary first-aid measures

If inhaled	If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get immediate medical attention while applying and massaging in 2.5% calcium gluconate gel. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get immediate medical attention.
In case of eye contact	Small amounts splashed into eyes can cause irreversible tissue damage and blindness. Continue rinsing eyes during transport to hospital. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
If swallowed	Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Take victim immediately to hospital.

Most important symptoms/effects, acute and delayed
Effects are dependent on exposure (dose, concentration, contact time).
Symptoms may include central nervous system depression, resulting in headache, nausea and/or dizziness.
Symptoms may include blistering, irritation, burns, and pain.
Effects are immediate and delayed.

Fatal in contact with skin.
Causes severe skin burns and eye damage.
Review section 2 of SDS to see all potential hazards.

SECTION 5: Fire-fighting measures

Suitable extinguishing media
Water
Carbon dioxide (CO2)
Dry chemical
Foam

Specific hazards arising from the chemical
Ammonium bifluoride: Hydrogen fluoride, nitrogen oxides, ammonia

Special protective actions for fire-fighters
Wear self-contained breathing apparatus for firefighting if necessary.

Further information
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures
Use personal protective equipment.

Methods and materials for containment and cleaning up
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

Precautions for safe handling
KEEP OUT OF REACH OF CHILDREN, For industrial and institutional use only. Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Keep away from sources of ignition.

Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Observe label precautions.
Electrical installations / working materials must comply with the technological safety standards.

SECTION 8: Exposure controls/personal protection

Control parameters

CAS: 111-76-2 (EC: 203-905-0)
Butoxyethanol
20 ppm, 97 mg/m3 PEL inhalation; ACGIH (USA): 20 ppm TLV® inhalation; 20 ppm TWA inhalation; Cal/OSHA: 20 ppm PEL inhalation; NIOSH: 5 ppm REL inhalation; 5 ppm, 24 mg/m3 TWA inhalation; OSHA: 50 ppm PEL inhalation; 240 mg/m3 PEL inhalation; 50 ppm, 240 mg/m3 TWA inhalation

CAS: 1341-49-7 (EC: 215-676-4)
Ammonium bifluoride
ACGIH: 2.5 mg/m3 TLV® inhalation; OSHA: 2.5 mg/m3 TWA inhalation

CAS: 7664-38-2 (EC: 231-633-2)
Phosphoric acid
ACGIH (USA): 1 mg/m3, (ST) 3 mg/m3 TLV® inhalation; Cal/OSHA (USA): 1 mg/m3, (ST) 3 mg/m3 PEL inhalation; NIOSH (USA): 1 mg/m3, (ST) 3 mg/m3 REL inhalation; OSHA (USA): 1 mg/m3 PEL inhalation

Appropriate engineering controls
Effective ventilation in all processing areas

Individual protection measures, such as personal protective equipment (PPE)

Pictograms

Eye/face protection
Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.

Skin protection
Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the workplace.

Respiratory protection
Use respiratory protection unless adequate local exhaust ventilation is provided, or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

SECTION 9: Physical and chemical properties and safety characteristics

Physical state	Liquid
Appearance	Clear
Color	Green
Odor	Characteristic
Odor threshold	ND
pH	<1.0
Melting point/freezing point	ND
Boiling point or initial boiling point and boiling range	ND
Flash point	Does not flash
Evaporation rate	ND
Flammability	Nonflammable
Lower and upper explosion limit/flammability limit	ND
Vapor pressure	ND
Relative vapor density	ND
Density and/or relative density	1.1-1.3
Solubility	Soluble
Partition coefficient n-octanol/water (log value)	ND
Auto-ignition temperature	ND
Decomposition temperature	ND
Kinematic viscosity	ND

SECTION 10: Stability and reactivity

Chemical stability
Stable under normal conditions.

Possibility of hazardous reactions
No decomposition if stored and applied as directed.

Conditions to avoid
Heat

Incompatible materials
Phosphoric acid: Strong bases, Powdered metals
Alkali metals
Metals
glass

Ammonium bifluoride: Strong oxidizing agents

Hazardous decomposition products
Phosphoric acid: Hazardous decomposition products formed under fire conditions. - Oxides of phosphorus
Other decomposition products - No data available
In the event of fire: see section 5
Carbon oxides
Phosphorus compounds
Nitrogen oxides

Ammonium bifluoride: Hazardous decomposition products formed under fire conditions. - Nitrogen oxides (NOx), Hydrogen fluoride
Other decomposition products - No data available
In the event of fire: see section 5

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity
// ----- From the Suggestion report (01/14/2022, 9:46 AM) ----- //
The ATE (gas inhalation) of the mixture is: 112500 ppmV

// ----- From the Suggestion report (02/01/2022, 12:53 PM) ----- //
The ATE (oral) of the mixture is: 1724.14 mg/kg bw

Skin corrosion/irritation
Remarks: Causes skin burns. Harmful if absorbed through the skin. Contact results in immediate skin absorption which may cause hypocalcemia (calcium loss). This effect may be delayed for several hours after exposure. Severe over-exposure by absorption can result in death. Get immediate medical attention.

Serious eye damage/irritation
Remarks: May cause irreversible eye damage.

Respiratory or skin sensitization
ND

Germ cell mutagenicity
ND

Carcinogenicity
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH: Confirmed animal carcinogen with unknown relevance to humans 2-butoxyethanol 111-76-2
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity
ND

STOT-single exposure
ND

STOT-repeated exposure
ND

Aspiration hazard
ND

SECTION 12: Ecological information

Toxicity
ND

Persistence and degradability
ND

Bioaccumulative potential
ND

SECTION 13: Disposal considerations

Disposal methods

Product disposal
The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Dispose of in accordance with local regulations.

Packaging disposal
Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

SECTION 14: Transport information

DOT (US)
UN Number: UN3264
Class: 8
Packing Group: III
Proper Shipping Name: Corrosive liquid, acidic, inorganic, n.o.s. (PHOSPHORIC ACID, AMMONIUM BIFLUORIDE)

IMDG
UN Number: UN3264
Class: 8
Packing Group: III
Proper Shipping Name: Corrosive liquid, acidic, inorganic, n.o.s. (PHOSPHORIC ACID, AMMONIUM BIFLUORIDE)

IATA
UN Number: UN3264
Class: 8
Packing Group: III
Proper Shipping Name: Corrosive liquid, acidic, inorganic, n.o.s. (PHOSPHORIC ACID, AMMONIUM BIFLUORIDE)

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Canadian Domestic Substances List (DSL)
Chemical name: Phosphoric acid
CAS: 7664-38-2

Chemical name: Ethanol, 2-butoxy-
CAS: 111-76-2

Chemical name: Ammonium fluoride ((NH4)(HF2))
CAS: 1341-49-7

Massachusetts Right To Know Components
Phosphoric acid
CAS number: 7664-38-2

Ethylene glycol monobutyl ether
CAS: 111-76-2

Chemical name: Ammonium bifluoride
CAS number: 1341-49-7

New Jersey Right To Know Components
Phosphoric acid
CAS number: 7664-38-2

Ethylene glycol monobutyl ether
CAS: 111-76-2

Chemical name: Ammonium bifluoride
CAS number: 1341-49-7

Pennsylvania Right To Know Components
Phosphoric acid
CAS number: 7664-38-2

Ethylene glycol monobutyl ether
CAS: 111-76-2

Chemical name: Ammonium fluoride
CAS number: 1341-49-7

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Acute Health Hazard

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

The following components are subject to reporting levels established by SARA Title III, Section 313:
Ethylene glycol monobutyl ether
CAS: 111-76-2

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SECTION 16: Other information

Further information/disclaimer

DISCLAIMER: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of information for their particular purposes. In no event shall INTERCHEM LIMITED be liable for any claims, losses, or damages of any third party or lost profits or any special, indirect, incidental, consequential, or exemplary damages, whatsoever arising, even if INTERCHEM LTD has been advised of the possibility of such damages.

Legend:
NE: Not Evaluated
ND: Not Determined
NA: Not Available
NAP: Not Applicable
NR: Not Regulated