

# SAFETY DATA SHEET



Issuing Date 17-Dec-2014

Revision Date 16-Jul-2015

Revision Number: 1

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### GHS product identifier

**Product Name**

Rustlick B *RUST X-100 B*

**Other means of identification**

**Synonyms**

73011, 73051, 73551

### Recommended use of the chemical and restrictions on use

**Recommended Use**

Corrosion Inhibitor

**Uses advised against**

No information available

### Supplier's details

#### **Supplier Address**

ITW Pro Brands  
616 East Industrial Street  
Dewitt, IA 52742  
TEL: 1-800-241-8334 for US/ +1 770-243-8800 outside US

### Emergency telephone number

**Emergency Telephone Number**

CHEMTREC: 1-800-424-9300 for US/ 703-527-3887 outside US

## 2. HAZARDS IDENTIFICATION

### Classification

This chemical is considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

**Skin Corrosion/Irritation**

Category 1 Subcategory 1B

**Serious Eye Damage/Eye Irritation**

Category 1

**Specific Target Organ Systemic Toxicity (Single Exposure)**

Category 3

### GHS Label elements, including precautionary statements

#### **Emergency Overview**

**Signal Word**

**Danger**

#### **Hazard Statements**

- Causes severe skin burns and eye damage
- May cause respiratory irritation. May cause drowsiness or dizziness



**Appearance:** Transparent, Green

**Physical State:** Liquid

**Odor:** Slight Amine

**Precautionary Statements****Prevention**

- Wear eye/face protection.
- Do not breathe dust/fume/gas/mist/vapors/spray.
- Wash face, hands and any exposed skin thoroughly after handling.
- Use only outdoors or in a well-ventilated area.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Use personal protective equipment as required.

**General Advice**

- Immediately call a POISON CENTER or doctor/physician.
- Specific treatment (see supplemental instructions on the administration of antidotes on this label)
- 

**Eyes**

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Immediately call a POISON CENTER or doctor/physician.
- 

**Skin**

- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- Wash contaminated clothing before reuse.

**Inhalation**

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

**Ingestion**

- IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

**Storage**

- Store in a well-ventilated place. Keep container tightly closed.

**Disposal**

- Dispose of contents/container to an approved waste disposal plant.

**Hazard Not Otherwise Classified (HNOC)**

Not applicable

**Other information**

<1% of the mixture consists of ingredient(s) of unknown toxicity.

| 3. COMPOSITION / INFORMATION ON INGREDIENTS |               |                 |                     |
|---|---------------|-----------------|---------------------|
| <b>Chemical Name</b>                        | <b>CAS-No</b> | <b>Weight %</b> | <b>Trade secret</b> |
| Triethanolamine                             | 102-71-6      | 10-20           | *                   |
| Ethanolamine                                | 141-43-5      | 5-10            | *                   |
| Boric acid                                  | 10043-35-3    | 5-10            | *                   |

|                    |          |     |   |
|--------------------|----------|-----|---|
| Diisopropanolamine | 110-97-4 | 3-7 | * |
|--------------------|----------|-----|---|

*\*The exact percentage (concentration) of composition has been withheld as a trade secret.*

**4. FIRST AID MEASURES**

**Description of necessary first-aid measures**

- Eye Contact** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or Poison Control Center immediately.
- Skin Contact** IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or Poison Control Center immediately.
- Inhalation** IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing Call a physician or Poison Control Center immediately.
- Ingestion** Rinse mouth. Do NOT induce vomiting. Call a physician or Poison Control Center immediately.
- Protection of First-aiders** Use personal protective equipment. Avoid contact with skin, eyes and clothing.

**Most important symptoms/effects, acute and delayed**

**Most Important Symptoms/Effects** Dizziness. Serious eye irritation or damage, Burn, Drowsiness, Irritation.

**Indication of immediate medical attention and special treatment needed, if necessary**

**Notes to Physician** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** None

**Specific Hazards Arising from the Chemical**

The product causes burns of eyes, skin and mucous membranes. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

**Explosion Data**

**Sensitivity to Mechanical Impact** None.  
**Sensitivity to Static Discharge** None.

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Use personal protective equipment. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.

**Environmental Precautions**

**Environmental Precautions** Do not flush into surface water or sanitary sewer system. See Section 12 for additional Ecological Information.

**Methods and materials for containment and cleaning up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so. Dike to collect large liquid spills.

**Methods for Cleaning Up** Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Use personal protective equipment. Sweep up and shovel into suitable containers for disposal.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Handling** Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Do not breathe vapors or spray mist. Wear personal protective equipment. Wash thoroughly after handling.

**Conditions for safe storage, including any incompatibilities**

**Storage** Keep container tightly closed. Store in original container. Keep locked-up.

**Incompatible Products** Strong oxidizing agents.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Control parameters**

**Exposure Guidelines**

| Chemical Name               | ACGIH TLV                | OSHA PEL  | NIOSH IDLH  |
|-----------------------------|--------------------------|---|---|
| Triethanolamine<br>102-71-6 | TWA: 5 mg/m <sup>3</sup> | -   | -   |
| Ethanolamine<br>141-43-5    | STEL: 6 ppm TWA: 3 ppm   | TWA: 3 ppm TWA: 6 mg/m <sup>3</sup><br>(vacated) TWA: 3 ppm (vacated)<br>TWA: 8 mg/m <sup>3</sup> (vacated) STEL: 6<br>ppm (vacated) STEL: 15 mg/m <sup>3</sup> | IDLH: 30 ppm TWA: 3 ppm TWA:<br>8 mg/m <sup>3</sup> STEL: 6 ppm STEL: 15<br>mg/m <sup>3</sup> |

|                       |   |   |   |
|-----------------------|---|---|---|
| Boric acid 10043-35-3 | TWA: 2 mg/m <sup>3</sup> inhalable fraction<br>STEL: 6 mg/m <sup>3</sup> inhalable fraction | . | . |
|-----------------------|---|---|---|

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

### Appropriate engineering controls

#### Engineering Measures

Showers  
Eyewash stations  
Ventilation systems

### Individual protection measures, such as personal protective equipment

#### Eye/Face Protection

Tightly fitting safety goggles.

#### Skin and Body Protection

Wear protective gloves/clothing.

#### Respiratory Protection I

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

#### Hygiene Measures

When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

| Physical State                         | Liquid            | Appearance        | Green                    |
|--|-------------------|-------------------|--------------------------|
| Odor                                   | Amine             | Odor Threshold    | No information available |
| Property                               | Values            | Remarks/ - Method |                          |
| pH                                     | 9.1               | at 10%            |                          |
| Melting Point/Range                    | No data available | None known        |                          |
| Boiling Point/Boiling Range            | 100 °C / 212 °F   | None known        |                          |
| Flash Point                            | >93 °C / >200 °F  | PMCC              |                          |
| Evaporation rate                       | <1                | None known        |                          |
| Flammability (solid, gas)              | No data available | None known        |                          |
| Flammability Limits in Air             |                   |                   |                          |
| upper flammability limit               | No data available |                   |                          |
| lower flammability limit               | No data available |                   |                          |
| Vapor Pressure                         | No data available |                   |                          |
| Vapor Density                          | >1                | None known        |                          |
| Specific Gravity                       | 1.05              | None known        |                          |
| Water Solubility                       | Soluble in water. | None known        |                          |
| Solubility in other solvents           | No data available | None known        |                          |
| Partition coefficient: n-octanol/water | No data available | None known        |                          |
| Autoignition Temperature               | No data available | None known        |                          |
| Decomposition Temperature              | No data available | None known        |                          |
| Viscosity                              | No data available | None known        |                          |
| Flammable Properties                   | Not flammable     |                   |                          |

Explosive Properties No data available  
Oxidizing Properties No data available

Other information  
VOC Content (%) No data available

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

None under normal processing.

### Hazardous Polymerization

Hazardous polymerization does not occur.

### Conditions to avoid

None known based on information supplied.

### Incompatible materials

Strong oxidizing agents.

### Hazardous decomposition products

Carbon oxides, Nitrogen Oxides (NOx).

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

Product does not present an acute toxicity hazard based on known or supplied information.

#### Inhalation

May cause irritation of respiratory tract. May cause drowsiness and dizziness.

#### Eye Contact

Causes serious eye damage.

#### Skin Contact

Causes severe skin burns.

#### Ingestion

Ingestion causes burns of the upper digestive and respiratory tract.

**Component Information**

| Chemical Name      | LD50 Oral            | LD50 Dermal                                   | LC50 Inhalation        |
|--------------------|----------------------|---|------------------------|
| Water              | 90 ml_/kg ( Rat )    | -   | -                      |
| Triethanolamine    | = 4190 mg/kg ( Rat ) | > 2000 mg/kg ( Rabbit ) > 16 mL/kg ( Rat )    | -                      |
| Boric acid         | = 2660 mg/kg ( Rat ) | >2000 mg/kg ( Rabbit )                        | >0.16 mg/L ( Rat ) 4 h |
| Ethanolamine       | = 1720 mg/kg ( Rat ) | = 1 mL/kg ( Rabbit ) = 1025 mg/kg ( Rabbit )  | -                      |
| Diisopropanolamine | = 4765 mg/kg ( Rat ) | = 8000 mg/kg ( Rabbit ) = 16000 mg/kg ( Rat ) | -                      |

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** Irritation. May cause drowsiness and dizziness.

**Delayed and immediate effects and also chronic effects from short and long term exposure**

**Sensitization** No information available.  
**Mutagenic Effects** No information available.  
**Carcinogenicity** Contains no ingredients above reportable quantities listed as a carcinogen.

| Chemical Name   | ACGIH | IARC    | NTP | OSHA |
|-----------------|-------|---------|-----|------|
| Triethanolamine |       | Group 3 |     |      |
| Boric acid      |       | -       |     | -    |

**ACGIH: (American Conference of Governmental Industrial Hygienists)**

None

**IARC: (International Agency for Research on Cancer)**

Group 3

**OSHA: (Occupational Safety & Health Administration)**

X - Present

**Reproductive Toxicity** No information available.

**STOT - single exposure** May cause respiratory irritation.

**STOT - repeated exposure** No information available.

**Aspiration Hazard** No information available.

**Numerical measures of toxicity – Product**

**Acute Toxicity** <1% of the mixture consists of ingredient(s) of unknown toxicity.

*The following values are calculated based on chapter 3.1 of the GHS document:*

LD50 Oral 8199 mg/kg; Acute toxicity estimate

LD50 Dermal 11866 mg/kg; Acute toxicity estimate

|                                   |
|-----------------------------------|
| <b>12. ECOLOGICAL INFORMATION</b> |
|-----------------------------------|

**Ecotoxicity**

The environmental impact of this product has not been fully investigated.

<1 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

| Chemical Name                  | Toxicity to Algae   | Toxicity to Fish  | Toxicity to Microorganisms   | Daphnia Magna (Water Flea)                     |
|--------------------------------|---|---|--|--|
| Triethanolamine<br>102-71-6    | EC50 72 h: = 216 mg/L<br>(Desmodesmus subspicatus)<br>EC50 96 h: = 169mg/L<br>(Desmodesmus subspicatus) | LC50 96 h: 10600 - 13000 mg/L flow-through (Pimephales promelas) LC50 96 h: > 1000 mg/L static (Pimephales promelas) LC50 96 h: 450 - 1000 mg/L static (Lepomis macrochirus)  |  | EC50 24 h: = 1386 mg/L (Daphnia magna)         |
| Boric acid 10043-35-3          |   | LC50 72 h: = 1020 mg/L flow-through (Carassius auratus)   |  | EC50 48 h: 115-153 mg/L (Daphnia magna)        |
| Ethanolamine 141-43-5          | EC50 72 h: = 15 mg/L (Desmodesmus subspicatus)  | LC50: 227 mg/L Pimephales promelas 96 h flow-through LC50: 3684 mg/L Brachydanio rerio 96 h static LC50: 300-1000 mg/L Lepomis macrochirus 96 h static LC50: 114-196 mg/L Oncorhynchus mykiss 96 h static LC50: >200 mg/L Oncorhynchus mykiss 96 h flow-through | EC50 = 110 mg/L 17 h<br>EC50 = 12200 mg/L 2 h<br>EC50 = 13.7 mg/L 30 min | EC50 48 h: = 65 mg/L (Daphnia magna)           |
| Diisopropanolamine<br>110-97-4 | EC50 72 h: = 270 mg/L (Desmodesmus subspicatus)   | LC50 96 h: 1000-2200 mg/L static (Brachydanio rerio) LC50 96 h: 1000-2200 mg/L static (Leuciscus idus)  |  | EC50 48 h: = 277.7 mg/L (Daphnia magna Straus) |

**Persistence and Degradability  
Bioaccumulation**

No information available.  
No information available.

| Chemical Name      | Log Pow |
|--------------------|---------|
| Triethanolamine    | -2.53   |
| Ethanolamine       | -1.91   |
| Boric acid         | -0.757  |
| Diisopropanolamine | -0.79   |

**Other Adverse Effects**

No information available.

### 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Methods**

This material, as supplied, is not a hazardous waste according to Federal regulations (40CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

**Contaminated Packaging**

Do not re-use empty containers.

### 14. TRANSPORT INFORMATION

**DOT**

Not regulated

**TDG**

Not regulated.

**MEX**

Not regulated



|                                   |
|-----------------------------------|
| <b>15. REGULATORY INFORMATION</b> |
|-----------------------------------|

**International Inventories**

TSCA Complies

**Legend**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**U.S. Federal Regulations**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

|                                   |     |
|-----------------------------------|-----|
| Acute Health Hazard               | Yes |
| Chronic Health Hazard             | No  |
| Fire Hazard                       | No  |
| Sudden Release of Pressure Hazard | No  |
| Reactive Hazard                   | No  |

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40CFR 122.42):

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**U.S. State Regulations****California Proposition 65**

This product contains the following Proposition 65 chemicals:

| Chemical Name  | CAS-No   | California Prop. 65 |
|----------------|----------|---------------------|
| Diethanolamine | 111-42-2 | Carcinogen          |

**U.S. State Right-to-Know Regulations**

| Chemical Name      | New Jersey | Massachusetts | Pennsylvania | Illinois | Rhode Island |
|--------------------|------------|---------------|--------------|----------|--------------|
| Triethanolamine    | X          | X             | X            |          | X            |
| Boric acid         |            |               |              | X        |              |
| Ethanolamine       | X          | X             | X            | X        | X            |
| Diisopropanolamine |            | X             | X            |          |              |

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

**16. OTHER INFORMATION**

|             |                 |                |                   |   |
|-------------|-----------------|----------------|-------------------|---|
| <b>NFPA</b> | Health Hazard 1 | Flammability 1 | Instability 0     | Physical and<br>Chemical Hazards -<br>Personal Protection X |
| <b>HMIS</b> | Health Hazard 1 | Flammability 1 | Physical Hazard 0 |   |

*\*Indicates a chronic health hazard.*

**Prepared By** ITW Pro Brands  
616 East Industrial Street  
Dewitt, IA 52742

**Revision Date** 16-Jul-2015  
**Revision Note** No information available.

**General Disclaimer**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet**