

# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:  
US OSHA Hazard Communication Standard 2024 (29 CFR 1910.1200) and Canada Hazardous Products Act (HPA) and the  
Hazardous Products Regulation (HPR), as amended

Issuing Date 14-Feb-2019

Revision date 24-Nov-2025

Revision Number 2

## 1. Identification

**Product identifier** 575040, 573000

**Product Name** Ty D Bol Toilet Cleaner Tab Lavender

### Other means of identification

**Product Code(s)** 1055297

**Synonyms** None

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

**Recommended use** Toilet/Urinal Care Product - Non-aerosol

**Restrictions on use** No information available

### Details of the supplier of the safety data sheet

**Supplier Name** Willert Home Products

### Supplier Address

4044 PARK AVE  
SAINT LOUIS  
MO  
63110  
US

### Emergency telephone number

**Supplier Phone Number** Phone:314-772-2822  
8:30 AM to 4:30 PM CST

**24 Hour Emergency Phone Number** 800-424-9300

**Emergency Telephone** No information available

## 2. Hazard(s) identification

### Classification of the substance or mixture

|                                   |             |
|-----------------------------------|-------------|
| Skin corrosion/irritation         | Category 2  |
| Serious eye damage/eye irritation | Category 1  |
| Reproductive toxicity             | Category 1B |

### Label elements

**Danger****Hazard statements**

Causes skin irritation.  
Causes serious eye damage.  
May damage fertility or the unborn child.

**Precautionary Statements - Prevention**

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Wear protective gloves, protective clothing, eye protection and face protection.  
Wash face, hands and any exposed skin thoroughly after handling.

**Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention.  
Specific treatment (see supplemental first aid instructions 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.

**Skin**

IF ON SKIN: Wash with plenty of water and soap.  
If skin irritation occurs: Get medical advice and attention.  
Take off contaminated clothing and wash it before reuse.

**Precautionary Statements - Storage**

Store locked up.

**Precautionary Statements - Disposal**

Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable.

**Hazards classified under paragraph (d)(1)(ii) of 1910.1200**

No information available.

**Other information**

May be harmful if swallowed. Harmful to aquatic life with long lasting effects.

### 3. Composition/information on ingredients

**Substance**

Not applicable.

**Mixture**

| Chemical name  | CAS No.    | Weight-% | Hazardous Material Information Review Act registry number (HMIRA registry #) | Date HMIRA filed and date exemption granted (if applicable) |
|--|------------|----------|--|---|
| Sodium borate  | 1330-43-4  | 20-25    | -  | -   |
| Benzenesulfonic acid, C10-16-alkyl derivatives, sodium salts | 68081-81-2 | 10-15    | -  | -   |
| Sodium carboxymethyl cellulose                               | 9004-32-4  | 3-5      | -  | -   |

|  |            |      |   |   |
|--|------------|------|---|---|
| Hydroxyethyl cellulose                       | 9004-62-0  | 2-5  | - | - |
| Sodium chloride (NaCl)                       | 7647-14-5  | 3-5  | - | - |
| Tetrasodium EDTA                             | 64-02-8    | 1-5  | - | - |
| Aluminum sulfate                             | 10043-01-3 | 1-5  | - | - |
| Alcohols, C11-14-iso-, C13-rich, ethoxylated | 78330-21-9 | 1-5  | - | - |
| Citric acid                                  | 77-92-9    | .5-2 | - | - |

#### 4. First-aid measures

##### Description of first aid measures

|   |   |
|---|---|
| <b>General advice</b>                     | Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.   |
| <b>Inhalation</b>                         | Remove to fresh air. Get medical attention immediately if symptoms occur.   |
| <b>Eye contact</b>                        | Get immediate medical attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. |
| <b>Skin contact</b>                       | Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.  |
| <b>Ingestion</b>                          | Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.   |
| <b>Self-protection of the first aider</b> | Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).   |

##### Most important symptoms and effects, both acute and delayed

|                            |  |
|----------------------------|--|
| <b>Symptoms</b>            | Burning sensation.   |
| <b>Effects of Exposure</b> | May cause adverse reproductive effects - such as birth defect, miscarriages, or infertility. |

##### Indication of any immediate medical attention and special treatment needed

|                           |                        |
|---------------------------|------------------------|
| <b>Note to physicians</b> | Treat symptomatically. |
|---------------------------|------------------------|

#### 5. Fire-fighting measures

|  |  |
|--|--|
| <b><u>Suitable Extinguishing Media</u></b>                                   | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.                            |
| <b>Unsuitable extinguishing media</b>  | Do not scatter spilled material with high pressure water streams.  |
| <b><u>Specific hazards arising from the chemical</u></b>                     | No information available.  |
| <b>Hazardous combustion products</b>   | Carbon oxides.   |
| <b><u>Explosion data</u></b>   |  |
| <b>Sensitivity to mechanical impact</b>                                      | None.  |
| <b>Sensitivity to static discharge</b>                                       | None.  |
| <b><u>Special protective equipment and precautions for fire-fighters</u></b> | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. |

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

|                             |  |
|-----------------------------|--|
| <b>Personal precautions</b> | Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. |
| <b>Other information</b>    | Refer to protective measures listed in Sections 7 and 8.   |

### Methods and material for containment and cleaning up

|  |  |
|--|--|
| <b>Methods for containment</b>         | Prevent further leakage or spillage if safe to do so.                                |
| <b>Methods for cleaning up</b>         | Pick up and transfer to properly labeled containers.                                 |
| <b>Prevention of secondary hazards</b> | Clean contaminated objects and areas thoroughly observing environmental regulations. |

## 7. Handling and storage

### Precautions for safe handling

|                                       |  |
|---------------------------------------|--|
| <b>Advice on safe handling</b>        | Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Take off contaminated clothing and wash before reuse.                      |
| <b>General hygiene considerations</b> | Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice. |

### Conditions for safe storage, including any incompatibilities

|                           |  |
|---------------------------|--|
| <b>Storage Conditions</b> | Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children. |
|---------------------------|--|

## 8. Exposure controls/personal protection

### Control Parameters

#### Exposure Limits

| Chemical name                  | ACGIH TLV   | OSHA PEL  | NIOSH                         |
|--------------------------------|---|---|-------------------------------|
| Sodium borate<br>1330-43-4     | TWA: 2 mg/m <sup>3</sup> inhalable particulate matter<br>STEL: 6 mg/m <sup>3</sup> inhalable particulate matter | (vacated) TWA: 10 mg/m <sup>3</sup>               | TWA: 1 mg/m <sup>3</sup> ;    |
| Aluminum sulfate<br>10043-01-3 | -   | (vacated) TWA: 2 mg/m <sup>3</sup> Al<br>Aluminum | TWA: 2 mg/m <sup>3</sup> ; Al |

| Chemical name              | Alberta                                    | British Columbia  | Ontario   | Quebec  |
|----------------------------|--|---|---|---|
| Sodium borate<br>1330-43-4 | TWA: 1 mg/m <sup>3</sup> ;<br>STEL: 3 ppm; | TWA: 2 mg/m <sup>3</sup> ;<br>inhalable<br>STEL: 6 mg/m <sup>3</sup> ;<br>inhalable | TWA: 2 mg/m <sup>3</sup> ;<br>inhalable particulate matter<br>STEL: 6 mg/m <sup>3</sup> ;<br>inhalable particulate matter | TWAEV: 2 mg/m <sup>3</sup> ;<br>inhalable dust<br>STEV: 6 mg/m <sup>3</sup> ;<br>inhalable dust |

|                                |                            |   |   |                              |
|--------------------------------|----------------------------|---|---|------------------------------|
| Aluminum sulfate<br>10043-01-3 | TWA: 2 mg/m <sup>3</sup> ; | - | - | TWAEV: 2 mg/m <sup>3</sup> ; |
|--------------------------------|----------------------------|---|---|------------------------------|

| Chemical name | Manitoba  | New Brunswick   | Newfoundland and Labrador   | Nova Scotia   |
|---------------|---|---|---|---|
| Sodium borate | TWA: 2 mg/m <sup>3</sup> ;<br>inhalable particulate matter<br>STEL: 6 mg/m <sup>3</sup> ;<br>inhalable particulate matter | TWA: 2 mg/m <sup>3</sup> ;<br>inhalable fraction<br>STEL: 6 mg/m <sup>3</sup> ;<br>inhalable fraction | TWA: 2 mg/m <sup>3</sup> ;<br>inhalable particulate matter<br>STEL: 6 mg/m <sup>3</sup> ;<br>inhalable particulate matter | TWA: 2 mg/m <sup>3</sup> ;<br>inhalable particulate matter<br>STEL: 6 mg/m <sup>3</sup> ;<br>inhalable particulate matter |

| Chemical name    | Nunavut   | Prince Edward Island  | Saskatchewan  | Yukon |
|------------------|---|---|---|-------|
| Sodium borate    | TWA: 2 mg/m <sup>3</sup> ;<br>inhalable fraction<br>STEL: 6 mg/m <sup>3</sup> ;<br>inhalable fraction | TWA: 2 mg/m <sup>3</sup> ;<br>inhalable particulate matter<br>STEL: 6 mg/m <sup>3</sup> ;<br>inhalable particulate matter | TWA: 2 mg/m <sup>3</sup> ;<br>inhalable fraction<br>STEL: 6 mg/m <sup>3</sup> ;<br>inhalable fraction | -     |
| Aluminum sulfate | TWA: 2 mg/m <sup>3</sup> ;<br>STEL: 4 mg/m <sup>3</sup> ;   | -   | TWA: 2 mg/m <sup>3</sup> ;<br>STEL: 4 mg/m <sup>3</sup> ;   | -     |

**Note** See section 16 for terms and abbreviations.

**Other information on limit values** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

**Biological occupational exposure limits** This product, as supplied, contains materials that do not have reportable biological exposure limits or are not subject to the reporting requirements of the local jurisdiction.

#### **Appropriate engineering controls**

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems.

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

**Eye/face protection** Tight sealing safety goggles.

**Hand protection** Wear suitable gloves. Impervious gloves.

**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing.

**Respiratory protection** Appropriate respiratory protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

## **9. Physical and chemical properties**

### **Information on basic physical and chemical properties**

|                                |                          |
|--------------------------------|--------------------------|
| Physical state                 | Solid                    |
| Color                          | No information available |
| Odor (includes odor threshold) | Floral                   |
| Odor threshold                 | Not applicable           |

| <u>Property</u>   | <u>Values</u>     | <u>Remarks • Method</u> |
|---|-------------------|-------------------------|
| Melting point / freezing point                            | No data available | None known              |
| Boiling point (or initial boiling point or boiling range) | No data available | None known              |
| Flammability  | No data available | None known              |
| Flammability Limit in Air                                 |                   | None known              |
| Upper flammability or explosive limits                    | No data available |                         |
| Lower flammability or explosive limits                    | No data available |                         |
| Flash point   | No data available | None known              |
| Autoignition temperature                                  | No data available | None known              |
| Decomposition temperature                                 | No data available | None known              |
| SADT (°C)   | No data available | None known              |
| pH  | No data available | None known              |
| pH (as aqueous solution)                                  | No data available | None known              |
| Kinematic viscosity                                       | No data available | None known              |
| Dynamic viscosity   | No data available | None known              |
| Solubility  | No data available | None known              |
| Water solubility  | No data available |                         |
| Partition coefficient n-octanol/water (log value)         | NONE              |                         |
| Vapor pressure (includes evaporation rate)                | No data available | None known              |
| Evaporation rate  | No data available | None known              |
| Density and/or relative density                           | No data available |                         |
| Bulk density  | No data available |                         |
| Liquid Density  | No data available |                         |
| Relative vapor density                                    | No data available | None known              |
| Particle characteristics                                  |                   | None known              |
| Particle Size   | No data available |                         |
| Particle Size Distribution                                | No data available |                         |
| <u>Other information</u>                                  |                   |                         |
| Miscible  | No                |                         |

## 10. Stability and reactivity

|                                    |  |
|------------------------------------|--|
| Reactivity                         | No information available.                            |
| Chemical stability                 | Stable under normal 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 acids. Strong bases. Strong oxidizing agents. |
| Hazardous decomposition products   | Carbon oxides.                                       |

## 11. Toxicological information

### Information on likely routes of exposure

**Product Information**

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.                                      |
| <b>Eye contact</b>  | Specific test data for the substance or mixture is not available. Causes serious eye damage. May cause irreversible damage to eyes.               |
| <b>Skin contact</b> | Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components).                                  |
| <b>Ingestion</b>    | Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. |

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

|                       |                           |
|-----------------------|---------------------------|
| <b>Symptoms</b>       | Burning sensation.        |
| <b>Acute toxicity</b> | No information available. |

**Numerical measures of toxicity**

The following ATE values have been calculated for the mixture

|                               |                  |
|-------------------------------|------------------|
| ATEmix (oral)                 | 2,548.30 mg/kg   |
| ATEmix (dermal)               | 99,999.000 mg/kg |
| ATEmix (inhalation-gas)       | 99,999.00 ppm    |
| ATEmix (inhalation-vapor)     | 99,999.00 mg/l   |
| ATEmix (inhalation-dust/mist) | 10.50 mg/l       |

**Component Information**

| Chemical name                  | Oral LD50             | Dermal LD50              | Inhalation LC50                      |
|--------------------------------|-----------------------|--------------------------|--------------------------------------|
| Sodium borate                  | = 2660 mg/kg ( Rat )  | > 2000 mg/kg ( Rabbit )  | > 2.04 mg/L ( Rat ) 4 h              |
| Sodium carboxymethyl cellulose | = 27000 mg/kg ( Rat ) | -                        | > 5800 mg/m <sup>3</sup> ( Rat ) 4 h |
| Sodium Chloride (Salt)         | = 3550 mg/kg ( Rat )  | > 10000 mg/kg ( Rabbit ) | > 42 mg/L ( Rat ) 1 h                |
| Tetrasodium EDTA               | = 1658 mg/kg ( Rat )  | -                        | -                                    |
| Aluminum sulfate               | = 1930 mg/kg ( Rat )  | > 5000 mg/kg ( Rabbit )  | -                                    |
| Citric acid                    | = 3 g/kg ( Rat )      | > 2000 mg/kg ( Rat )     | -                                    |

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

|  |  |
|--|--|
| <b>Skin corrosion/irritation</b>         | Classification based on data available for ingredients. Causes skin irritation.                  |
| <b>Serious eye damage/eye irritation</b> | Classification based on data available for ingredients. Causes burns. Causes serious eye damage. |
| <b>Respiratory or skin sensitization</b> | No information available.  |
| <b>Germ cell mutagenicity</b>            | No information available.  |

**Carcinogenicity**

The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical name | ACGIH                                       | IARC | NTP | OSHA |
|---------------|---|------|-----|------|
| Sodium borate | A4 - Not classifiable as a human carcinogen | -    | -   | -    |

|                              |   |
|------------------------------|---|
| <b>Reproductive toxicity</b> | Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. May damage fertility or the unborn child. |
|------------------------------|---|

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

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

**Aspiration hazard** No information available.

## 12. Ecological information

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

| Chemical name          | Fish  | Crustacea   | Algae/aquatic plants  | Toxicity to microorganisms |
|------------------------|---|---|---|----------------------------|
| Sodium borate          | 96h LC50: = 340 mg/L (Limanda limanda)  | 48h LC50: 1085 - 1402 mg/L (Daphnia magna)  | 96h EC50: = 158 mg/L (Desmodesmus subspicatus)<br>96h EC50: 2.6 - 21.8 mg/L (Pseudokirchneriella subcapitata) | -                          |
| Sodium Chloride (Salt) | 96h LC50: 5560 - 6080 mg/L (Lepomis macrochirus)<br>96h LC50: = 12946 mg/L (Lepomis macrochirus)<br>96h LC50: 6020 - 7070 mg/L (Pimephales promelas)<br>96h LC50: = 7050 mg/L (Pimephales promelas)<br>96h LC50: 6420 - 6700 mg/L (Pimephales promelas)<br>96h LC50: 4747 - 7824 mg/L (Oncorhynchus mykiss) | 48h EC50: = 1000 mg/L (Daphnia magna)<br>48h EC50: 340.7 - 469.2 mg/L (Daphnia magna) | -   | N/A                        |
| Tetrasodium EDTA       | 96h LC50: = 41 mg/L (Lepomis macrochirus)<br>96h LC50: = 59.8 mg/L (Pimephales promelas)  | -   | -   | -                          |
| Aluminum sulfate       | 96h LC50: = 27.9 mg/L (Pimephales promelas)   | -   | -   | -                          |
| Citric acid            | 96h LC50: = 1516 mg/L (Lepomis macrochirus)   | -   | -   | -                          |

| Chemical name          | Earthworm  | Avian | Honeybees |
|------------------------|--|-------|-----------|
| Sodium Chloride (Salt) | Acute Toxicity: LC50 0.1 - 1 mg/cm <sup>2</sup> (Eisenia foetida, 48 h filter paper) | -     | -         |

**Persistence and degradability** No information available.

### **Bioaccumulative potential**

| Chemical name    | Partition coefficient | Bioconcentration factor (BCF) | Trophic magnification factor (TMF) |
|------------------|-----------------------|-------------------------------|------------------------------------|
| Sodium borate    | -1.53                 | -                             | -                                  |
| Aluminum sulfate | -                     | 362                           | -                                  |
| Citric acid      | -1.72                 | -                             | -                                  |

**Mobility in soil** No information available.

**Other adverse effects** No information available.

### 13. Disposal considerations

#### Disposal methods

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

### 14. Transport information

**DOT** NOT REGULATED  
**Transport hazard class(es)** N/A

**TDG** Not applicable

**MEX** Not applicable

**ICAO (air)** Not applicable

**IATA** Not applicable  
**Transport hazard class(es)** N/A

**IMDG** Not applicable  
**Transport hazard class(es)** N/A

### 15. Regulatory information

#### Safety, health and environmental regulations/legislation specific for the substance or mixture

#### International Regulations

**The Montreal Protocol on Substances that Deplete the Ozone Layer** Not applicable

**The Stockholm Convention on Persistent Organic Pollutants** Not applicable

**The Rotterdam Convention** Not applicable

#### International Inventories

**TSCA** Contact supplier for inventory compliance status.

|                      |   |
|----------------------|---|
| <b>DSL/NDSL</b>      | Contact supplier for inventory compliance status. |
| <b>EINECS/ELINCS</b> | Contact supplier for inventory compliance status. |
| <b>ENCS</b>          | Contact supplier for inventory compliance status. |
| <b>IECSC</b>         | Contact supplier for inventory compliance status. |
| <b>KECL</b>          | Contact supplier for inventory compliance status. |
| <b>PICCS</b>         | Contact supplier for inventory compliance status. |
| <b>AIIIC</b>         | Contact supplier for inventory compliance status. |
| <b>NZIoC</b>         | Contact supplier for inventory compliance status. |
| <b>TCSI</b>          | Contact supplier for inventory compliance status. |

**Legend:**

- TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing Chemicals Inventory  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AIIIC** - Australian Inventory of Industrial Chemicals  
**NZIoC** - New Zealand Inventory of Chemicals  
**TCSI** - Taiwan Chemical Substance Inventory

**US Federal Regulations****SARA 313**

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**

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

**CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CAA (Clean Air Act)**

This product does not contain any substances regulated as pollutants pursuant to Clean Air Act (CAA).

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

**US State Regulations****California Proposition 65**

This product contains the following Proposition 65 chemicals.:

| Chemical name                          | California Proposition 65 |
|--|---------------------------|
| Third Party Formulation (TP # 1485140) | Developmental             |
| Third Party Formulation (TP # 1485140) | Carcinogen                |
| Third Party Formulation (TP # 1485140) | Carcinogen                |

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

| Chemical name  | New Jersey | Massachusetts | Pennsylvania |
|----------------|------------|---------------|--------------|
| Sodium sulfate | -          | X             | X            |
| Sodium borate  | X          | X             | X            |
| Purified Water | -          | -             | X            |

|  |   |   |   |
|--|---|---|---|
| Aluminum sulfate                       | X | X | X |
| Third Party Formulation (TP # 1485140) | - | X | - |
| Third Party Formulation (TP # 1485140) | X | X | X |
| Third Party Formulation (TP # 1485140) | X | X | X |
| Third Party Formulation (TP # 1485140) | - | X | X |
| Third Party Formulation (TP # 1485140) | X | X | X |
| Third Party Formulation (TP # 1485140) | X | X | X |
| Third Party Formulation (TP # 1485140) | X | X | X |

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

**16. Other information**

**NFPA** Health hazards 3 Flammability 0 Instability 0 Special hazards -  
**HMIS** Health hazards 3\* Flammability 0 Physical hazards 0 Personal protection X  
 Chronic Hazard Star Legend \* = Chronic Health Hazard

**Key or legend to abbreviations and acronyms used in the safety data sheet**

List may include phrases which are not applicable to this product

|         |   |
|---------|---|
| ACGIH   | American Conference of Governmental Industrial Hygienists   |
| ADN     | Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Europe)     |
| ADR     | Agreement concerning the International Carriage of Dangerous Goods by Road (Europe)                 |
| AIIC    | Australian Inventory of Industrial Chemicals  |
| ATE     | Acute Toxicity Estimate   |
| ASTM    | American Society for the Testing of Materials   |
| bar     | Biological Reference Values for Chemical Compounds in the Work Area                                 |
| BAT     | Biological tolerance values for occupational exposure   |
| BEL     | Biological exposure limits  |
| bw      | Body weight   |
| Ceiling | Maximum limit value   |
| CMR     | Carcinogen, Mutagen or Reproductive Toxicant  |
| DOT     | Department of Transportation (United States)  |
| DSL     | Domestic Substances List (Canada)   |
| EmS     | Emergency Schedule  |
| ENCS    | Existing and New Chemical Substances (Japan)  |
| EPA     | Environmental Protection Agency   |
| GHS     | Globally Harmonized System  |
| HMIS    | Hazardous Materials Identification System   |
| IARC    | International Agency for Research on Cancer   |
| IATA    | International Air Transport Association   |
| IBC     | International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk |
| ICAO    | International Civil Aviation Organization   |
| IECSC   | Inventory of Existing Chemical Substances in China  |
| IMDG    | International Maritime Dangerous Goods  |
| IMO     | International Maritime Organization   |
| ISO     | International Organization for Standardization  |

|         |   |
|---------|---|
| KECI    | Korean Existing Chemicals Inventory   |
| LC50    | Lethal Concentration to 50% of a test population                                    |
| LD50    | Lethal Dose to 50% of a test population (Median Lethal Dose)                        |
| MARPOL  | International Convention for the Prevention of Pollution from Ships                 |
| NFPA    | National Fire Protection Association  |
| NIOSH   | National Institute for Occupational Safety and Health                               |
| n.o.s.  | Not Otherwise Specified   |
| NOAEC   | No Observed Adverse Effect Concentration  |
| NOAEL   | No Observed Adverse Effect Level  |
| NOELR   | No Observable Effect Loading Rate   |
| NTP     | National Toxicology Program (United States)   |
| NZIoC   | New Zealand Inventory of Chemicals  |
| OECD    | Organization for Economic Cooperation and Development                               |
| OEL     | Occupational exposure limits  |
| OSHA    | Occupational Safety and Health Administration of the US Department of Labor         |
| PBT     | Persistent, Bioaccumulative and Toxic substance                                     |
| PICCS   | Philippines Inventory of Chemicals and Chemical Substances                          |
| PMT     | Persistent, Mobile and Toxic  |
| PPE     | Personal protective equipment   |
| QSAR    | Quantitative Structure Activity Relationship  |
| RID     | Agreement concerning the International Carriage of Dangerous Goods by Rail (Europe) |
| SADT    | Self-Accelerating Decomposition Temperature   |
| SAR     | Structure-activity relationship   |
| SARA    | Superfund Amendments and Reauthorization Act  |
| SDS     | Safety Data Sheet   |
| SL      | Surface Limit   |
| STEL    | Short Term Exposure Limit   |
| STOT RE | Specific target organ toxicity - Repeated exposure                                  |
| STOT SE | Specific target organ toxicity - Single exposure                                    |
| TCSI    | Taiwan Chemical Substance Inventory   |
| TDG     | Transport of Dangerous Goods (Canada)   |
| TSCA    | Toxic Substances Control Act (United States)  |
| TWA     | Time-Weighted Average   |
| UN      | United Nations  |
| VOC     | Volatile organic compounds  |
| vPvB    | Very Persistent and Very Bioaccumulative  |
| vPvM    | Very Persistent and Very Mobile   |
| As      | Allergenic substance  |
| DS      | Dermal Sensitizer   |
| Ot      | Ototoxicant   |
| pOt     | Ototoxicant - potential to cause hearing disorders                                  |
| PS      | Photosensitizer   |
| RS      | Respiratory Sensitizer  |
| S       | Sensitizer  |
| poS     | Sensitizer - capable of causing occupational asthma                                 |
| Sa      | Simple asphyxiant   |
| Sd      | Skin designation  |
| pSd     | Skin designation - potential for cutaneous absorption                               |
| Sdv     | Skin designation - vacated  |
| Sk      | Skin notation   |
| dSk     | Skin notation - danger of cutaneous absorption                                      |
| pSk     | Skin notation - potential for cutaneous absorption                                  |

**Key literature references and sources for data used to compile the SDS**

U.S. Agency for Toxic Substances and Disease Registry (ATSDR)  
U.S. Environmental Protection Agency ChemView Database  
European Food Safety Authority (EFSA)  
U.S. Environmental Protection Agency

Acute Exposure Guideline Level(s) (AEGl(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan National Institute of Technology and Evaluation (NITE)

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

U.S. National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

International Organization for Economic Co-operation and Development (OECD) Environment, Health, and Safety Publications

International Organization for Economic Co-operation and Development (OECD) High Production Volume Chemicals Program

International Organization for Economic Co-operation and Development (OECD) Screening Information Data Set

United Nations World Health Organization (WHO)

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**Disclaimer**

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**End of Safety Data Sheet**