

# SAFETY DATA SHEET

**Issue Date** 02-Dec-2020 **Revision Date** 26-Jan-2024 **Version** 4.6 **Page** 1 / 15

## 1. IDENTIFICATION

Product identifier

Product Name Phosphorus LR TNT Reagent A

Other means of identification

Product Code(s) TNT843A

Safety data sheet number M02444

UN/ID no UN3316

Recommended use of the chemical and restrictions on use

**Recommended Use** Water Analysis. Determination of chromium.

Uses advised against Consumer use.

**Restrictions on use** For Laboratory Use Only.

## Details of the supplier of the safety data sheet

#### **Manufacturer Address**

Hach Company, P.O.Box 389, Loveland, CO 80539, USA, +1(970) 669-3050

#### Emergency telephone number

+1(303) 623-5716 - 24 Hour Service

## 2. HAZARDS IDENTIFICATION

### Classification

## **Regulatory Status**

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

| Acute toxicity - Oral                            | Category 4  |
|--|-------------|
| Skin corrosion/irritation                        | Category 2  |
| Serious eye damage/eye irritation                | Category 2A |
| Respiratory sensitization                        | Category 1  |
| Skin sensitization                               | Category 1  |
| Reproductive toxicity                            | Category 2  |
| Specific target organ toxicity (single exposure) | Category 3  |

## Hazards not otherwise classified (HNOC)

Not applicable

## Label elements

#### Signal word

Danger

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#### **Hazard statements**

- H302 Harmful if swallowed
- H315 Causes skin irritation
- H317 May cause an allergic skin reaction
- H319 Causes serious eye irritation
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
- H335 May cause respiratory irritation
- H361 Suspected of damaging fertility or the unborn child

#### **Precautionary statements**

- P270 Do not eat, drink or smoke when using this product
- P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- P330 Rinse mouth
- P501 Dispose of contents/ container to an approved waste disposal plant
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water
- P362 Take off contaminated clothing and wash before reuse
- P280 Wear protective gloves, protective clothing, eye protection, and face protection
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P337 + P313 If eye irritation persists: Get medical attention
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray
- P285 In case of inadequate ventilation wear respiratory protection
- P304 + P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
- P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician
- P272 Contaminated work clothing should not be allowed out of the workplace
- P333 + P313 If skin irritation or rash occurs: Get medical advice/attention
- P363 Wash contaminated clothing before reuse
- P201 Obtain special instructions before use
- P308 + P313 IF exposed or concerned: Get medical advice/attention
- P405 Store locked up
- P271 Use only outdoors or in a well-ventilated area
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P312 Call a POISON CENTER or doctor if you feel unwell
- P403 + P233 Store in a well-ventilated place. Keep container tightly closed

#### Other Hazards Known

Harmful to aquatic life

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance

Not applicable

#### **Mixture**

Chemical FamilyOxidizing Agents.Chemical natureNo information available.

Percent ranges are used where confidential product information is applicable.

|           | Chemicai name | CAS NO | Percent | HIVIF | KIC# |
|-----------|---------------|--------|---------|-------|------|
|           |               |        |         |       |      |
|           |               |        |         |       |      |
| EN / AGHS |               |        | D.      | age   | 2/15 |
| EN / AUGO |               |        | Г       | aye   | 2/10 |

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|  |            | Range    |   |
|--|------------|----------|---|
| Sodium persulfate                            | 7775-27-1  | 70 - 80% | - |
| Boric acid (HBO2), sodium salt, tetrahydrate | 10555-76-7 | 20 - 30% | - |
| Lithium sulfate monohydrate                  | 10102-25-7 | <10%     | - |

## 4. FIRST AID MEASURES

#### Description of first aid measures

**General advice** Show this safety data sheet to the doctor in attendance.

**Inhalation** May cause allergic respiratory reaction. If breathing has stopped, give artificial respiration.

Get medical attention immediately. Remove to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Get immediate medical advice/attention.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep

eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. Do not rub affected area.

**Skin contact** May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a

physician. Wash off immediately with soap and plenty of water for at least 15 minutes.

**Ingestion** Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water.

Never give anything by mouth to an unconscious person. May produce an allergic reaction.

Get immediate medical advice/attention.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.

Most important symptoms and effects, both acute and delayed

**Symptoms** May cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing and/ or

wheezing. Itching. Rashes. Hives. Burning sensation.

Indication of any immediate medical attention and special treatment needed

**Note to physicians** May cause sensitization in susceptible persons. Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

surrounding environment.

**Unsuitable Extinguishing Media** Caution: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the

chemical

Product is or contains a sensitizer. May cause sensitization by inhalation and skin contact.

May cause sensitization by skin contact.

**Hazardous combustion products** Sulfur oxides. Boron compounds.

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

## **6. ACCIDENTAL RELEASE MEASURES**

**U.S. Notice**Only persons properly qualified to respond to an emergency involving hazardous

substances may respond to a spill according to federal regulations (OSHA 29 CFR

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1910.120(a)(v)) and per your company's emergency response plan and

guidelines/procedures. See Section 13, Special Instructions for disposal assistance. Outside of the US, only persons properly qualified according to state or local regulations should

respond to a spill involving chemicals.

## Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal

protective equipment as required. Evacuate personnel to safe areas. Keep people away

from and upwind of spill/leak.

**Other Information** Refer to protective measures listed in Sections 7 and 8.

Environmental precautions

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up**Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

**Reference to other sections** See section 8 for more information. See section 13 for more information.

### 7. HANDLING AND STORAGE

### Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Ensure adequate ventilation. Provide extract ventilation to points where emissions occur. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Take off contaminated clothing and wash before reuse. Avoid breathing

vapors or mists.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach

of children. Store locked up.

Flammability class Not applicable

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

### **Exposure Guidelines**

| Chemical name                   | ACGIH TLV                 | OSHA PEL | NIOSH |
|---------------------------------|---------------------------|----------|-------|
| Sodium persulfate               | TWA: 0.1 mg/m³ Persulfate | NDF      | NDF   |
| CAS#: 7775-27-1                 | -                         |          |       |
| Boric acid (HBO2), sodium salt, | STEL: 6 mg/m³ inhalable   | NDF      | NDF   |
| tetrahydrate                    | particulate matter        |          |       |
| CAS#: 10555-76-7                | TWA: 2 mg/m³ inhalable    |          |       |
|                                 | particulate matter        |          |       |

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Appropriate engineering controls

**Engineering Controls** 

Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Respiratory protection

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Hand Protection** 

Wear suitable gloves. Impervious gloves. Barrier creams may help to protect the exposed areas of skin. Gloves must be inspected prior to use. The selected protective gloves have to satisfy the specifications of EU Directive 2016/425 and the standard EN 374 derived from it. Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN

374-1:2016.

Eye/face protection

Wear safety glasses with side shields (or goggles). If splashes are likely to occur, wear

safety glasses with side-shields.

Skin and body protection

Wear suitable protective clothing. Long sleeved clothing.

**General Hygiene Considerations** 

Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and immediately

after handling the product.

**Environmental exposure controls** 

Local authorities should be advised if significant spillages cannot be contained. Do not allow

into any sewer, on the ground or into any body of water.

Thermal hazards

None under normal processing.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state

Solid

Appearance powder Odorless

Color white

Odor threshold No information available

Remarks • Method

<u>Property</u> <u>Values</u>

Molecular weight No data available

pH ~ 3.65 10% @ 20°C

Melting point / freezing point No data available

Initial boiling point and boiling range No data available

Evaporation rate Not applicable

Vapor pressure Not applicable

Relative vapor density

No data available

Specific gravity - VALUE 1 No data available

Partition coefficient No data available

**Soil Organic Carbon-Water Partition** 

Coefficient

No data available

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Autoignition temperature No data available

**Decomposition temperature**No data available

Dynamic viscosity Not applicable

Kinematic viscosity

Not applicable

Solubility(ies)

## Water solubility

| Water solubility classification | Water solubility | Water Solubility Temperature |
|---------------------------------|------------------|------------------------------|
| Completely soluble              | > 10000 mg/L     | 20 °C / 68 °F                |

## Solubility in other solvents

|   | Chemical Name | Solubility classification | <u>Solubility</u> | Solubility Temperature   |
|---|---------------|---------------------------|-------------------|--------------------------|
| Γ | None reported | No information available  | No data available | No information available |

### **Other information**

## **Metal Corrosivity**

Steel Corrosion RateNo data availableAluminum Corrosion RateNo data available

### **Volatile Organic Compounds (VOC) Content**

Not applicable

| Chemical name                                | CAS No Volatile organic compounds (VOC) content |                   | CAA (Clean Air Act) |
|--|---|-------------------|---------------------|
| Sodium persulfate                            | 7775-27-1                                       | Not applicable    | -                   |
| Boric acid (HBO2), sodium salt, tetrahydrate | 10555-76-7                                      | No data available | -                   |
| Lithium sulfate monohydrate                  | 10102-25-7                                      | No data available | -                   |

#### **Explosive properties**

Upper explosion limitNo data availableLower explosion limitNo data available

Flammable properties

Flash point Not applicable

Flammability Limit in Air

Upper flammability limit:No data availableLower flammability limit:No data available

Oxidizing properties No data available.

Bulk density

No data available

## 10. STABILITY AND REACTIVITY

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#### Reactivity

Not applicable.

### **Chemical stability**

Stable under normal conditions.

#### **Explosion data**

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

#### Possibility of hazardous reactions

None under normal processing.

### **Hazardous polymerization**

No information available.

#### Conditions to avoid

None known based on information supplied.

#### Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

## **Hazardous decomposition products**

Sulfur oxides. Sodium oxides. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

### 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

#### **Product Information**

**Inhalation** May cause sensitization in susceptible persons. May cause irritation of respiratory tract.

**Eye contact** Irritating to eyes. Causes serious eye irritation.

**Skin contact** Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

May cause sensitization by skin contact. Causes skin irritation.

Ingestion May cause additional affects as listed under "Inhalation". Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhea. Harmful if swallowed.

Symptoms Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling

of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing. Coughing and/ or wheezing. Itching. Rashes. Hives. Redness. May cause redness and

tearing of the eyes.

#### **Acute toxicity**

Harmful if swallowed

### **Mixture**

No data available.

### **Ingredient Acute Toxicity Data**

Test data reported below.

### **Oral Exposure Route**

| Chemical name                   | Endpoint type           | Reported dose | Exposure time | Toxicological effects | Key literature references and sources for data |
|---------------------------------|-------------------------|---------------|---------------|-----------------------|--|
| Sodium persulfate<br>(70 - 80%) | Rat<br>LD <sub>50</sub> |               | None reported | None reported         | NITE   |

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|------|-----|----|
|      |     |    |

| CAS#: 7775-27-1  |             |            |               |               |            |
|--|-------------|------------|---------------|---------------|------------|
| Boric acid (HBO2),<br>sodium salt,<br>tetrahydrate<br>(20 - 30%)<br>CAS#: 10555-76-7 | Rat<br>LD₅o | 2330 mg/kg | None reported | None reported | HSDB       |
| Lithium sulfate<br>monohydrate<br>(<10%)<br>CAS#: 10102-25-7                         | Rat<br>LD₅o | 613 mg/kg  | None reported | None reported | Vendor SDS |

#### **Unknown Acute Toxicity**

0% of the mixture consists of ingredient(s) of unknown toxicity.

## **Acute Toxicity Estimations (ATE)**

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

| ATEmix (oral)                 | 993.50 mg/kg             |
|-------------------------------|--------------------------|
| ATEmix (dermal)               | No information available |
| ATEmix (inhalation-dust/mist) | No information available |
| ATEmix (inhalation-vapor)     | No information available |
| ATEmix (inhalation-gas)       | No information available |

#### Skin corrosion/irritation

Classification based on data available for ingredients. Irritating to skin.

### **Mixture**

No data available.

### Ingredient Skin Corrosion/Irritation Data

Test data reported below.

| Chemical name                                      | Test method  | Species | Reported<br>dose | Exposure<br>time | Results       | Key literature<br>references and<br>sources for data |
|--|--|---------|------------------|------------------|---------------|--|
| Sodium persulfate<br>(70 - 80%)<br>CAS#: 7775-27-1 | OECD Test 404:<br>Acute Dermal<br>Corrosion/Irritation | Rabbit  | 0.5 mg           | 4 hours          | Skin irritant | ECHA   |

## Serious eye damage/irritation

Classification based on data available for ingredients. Irritating to eyes.

### **Mixture**

No data available.

## Ingredient Eye Damage/Eye Irritation Data

Test data reported below.

| Chemical name                                      | Test method   | Species | Reported<br>dose | Exposure<br>time | Results      | Key literature<br>references and<br>sources for data |
|--|---|---------|------------------|------------------|--------------|--|
| Sodium persulfate<br>(70 - 80%)<br>CAS#: 7775-27-1 | OECD Test 405:<br>Acute Eye<br>Corrosion/Irritation | Rabbit  | 0.1 mL           | 72 hours         | Eye irritant | ECHA   |

### Respiratory or skin sensitization

May cause sensitization by inhalation. May cause sensitization by skin contact.

### **Mixture**

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No data available.

## **Ingredient Sensitization Data**

Test data reported below.

## **Skin Sensitization Exposure Route**

| Chemical name                                      | Test method                                 | Species    | Results                           | Key literature references and sources for data |
|--|---|------------|-----------------------------------|--|
| Sodium persulfate<br>(70 - 80%)<br>CAS#: 7775-27-1 | OECD Test No.<br>406: Skin<br>Sensitization | Guinea pig | Confirmed to be a skin sensitizer | ECHA   |

## **Respiratory Sensitization Exposure Route**

| Chemical name                                      | Test method               | Species | Results                                  | Key literature references and sources for data |
|--|---------------------------|---------|--|--|
| Sodium persulfate<br>(70 - 80%)<br>CAS#: 7775-27-1 | Based on human experience | Human   | Confirmed to be a respiratory sensitizer | NICNAS   |

### STOT - single exposure

May cause respiratory irritation.

#### Mixture

No data available.

## Ingredient Specific Target Organ Toxicity Single Exposure Data

No data available.

### STOT - repeated exposure

Based on available data, the classification criteria are not met.

#### **Mixture**

No data available.

## Ingredient Specific Target Organ Toxicity Repeat Exposure Data

Test data reported below.

#### **Oral Exposure Route**

| Chemical name                   | Endpoint type | Reported dose | Exposure time | Toxicological effects             | Key literature references and sources for data |
|---------------------------------|---------------|---------------|---------------|-----------------------------------|--|
| Sodium persulfate<br>(70 - 80%) | Rat<br>NOAEL  | 91 mg/kg      | 90 days       | No toxicological effects observed | ECHA   |
| CAS#: 7775-27-1                 |               |               |               |                                   |  |

## Inhalation (Dust/Mist) Exposure Route

| Chemical name                | Endpoint type | Reported dose          | Exposure time | Toxicological effects             | Key literature references and sources for data |
|------------------------------|---------------|------------------------|---------------|-----------------------------------|--|
| Sodium persulfate (70 - 80%) | Rat<br>NOAEC  | 10.3 mg/m <sup>3</sup> | 90 days       | No toxicological effects observed | ECHA   |
| CAS#: 7775-27-1              |               |                        |               |                                   |  |

### Carcinogenicity

Based on available data, the classification criteria are not met.

#### **Mixture**

No data available.

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### **Ingredient Carcinogenicity Data**

No data available.

| Chemical name                                | CAS No     | ACGIH | IARC | NTP | OSHA |
|--|------------|-------|------|-----|------|
| Sodium persulfate                            | 7775-27-1  | -     | -    | -   | -    |
| Boric acid (HBO2), sodium salt, tetrahydrate | 10555-76-7 | -     | -    | -   | -    |
| Lithium sulfate monohydrate                  | 10102-25-7 | -     | -    | -   | -    |

### Legend

| ACGIH (American Conference of Governmental Industrial Hygienists) | Does not apply |
|---|----------------|
| IARC (International Agency for Research on Cancer)                | Does not apply |
| NTP (National Toxicology Program)                                 | Does not apply |
| OSHA  | Does not apply |

### **Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

#### Mixture invitro Data

No data available.

#### Substance invitro Data

Test data reported below.

| Chemical name                                      | Test                       | Cell Strain               | Reported<br>dose | Exposure<br>time | Results  | Key literature references and sources for data |
|--|----------------------------|---------------------------|------------------|------------------|----------|--|
| Sodium persulfate<br>(70 - 80%)<br>CAS#: 7775-27-1 | Mutation in microorganisms | Salmonella<br>typhimurium | 10 mg/plate      | 72 hours         | Negative | ECHA   |

### Mixture invivo Data

No data available.

### Substance invivo Data

No data available.

### Reproductive toxicity

Classification based on data available for ingredients. Contains a known or suspected reproductive toxin. The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

#### **Mixture**

No data available.

### **Ingredient Reproductive Toxicity Data**

Test data reported below.

#### **Oral Exposure Route**

|   | Chemical name     | Endpoint<br>type | Reported dose | Exposure time | Toxicological effects       | Key literature references and sources for data |
|---|-------------------|------------------|---------------|---------------|-----------------------------|--|
| Ī | Sodium persulfate | Rat              | >= 250 mg/kg  | Single        | No reproductive or          | ECHA   |
|   | (70 - 80%)        | NOAEL            |               | generation    | developmental toxic effects |  |
| l | CAS#: 7775-27-1   |                  |               |               | observed                    |  |

### **Aspiration hazard**

Based on available data, the classification criteria are not met.

|           | 12. ECOLOGICAL INFORMATION |            |
|-----------|----------------------------|------------|
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**Ecotoxicity** Based on available data, the classification criteria are not met.

Unknown aquatic toxicity 0% of the mixture consists of components(s) of unknown hazards to the aquatic

environment.

**Mixture** 

Aquatic Acute Toxicity
No data available.

**Aquatic Chronic Toxicity** 

No data available.

**Substance** 

**Aquatic Acute Toxicity** 

Test data reported below.

#### Fish

| Chemical name                                      | Exposure time | Species             | Endpoint type | Reported dose | Key literature references and sources for data |
|--|---------------|---------------------|---------------|---------------|--|
| Sodium persulfate<br>(70 - 80%)<br>CAS#: 7775-27-1 | 96 hours      | Poecilia reticulata | LC50          | 76 mg/L       | ECHA   |

### **Aquatic Chronic Toxicity**

No data available.

### Persistence and degradability

Mixture

No data available.

**Mixture** 

No data available.

Partition coefficient No data available

**Mobility** 

products

Soil Organic Carbon-Water Partition Coefficient No data available

Other adverse effects No information available

## 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

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

US EPA Waste Number Not applicable

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## 14. TRANSPORT INFORMATION

DOT

UN/ID no UN3316

Proper shipping name CHEMICAL KITS

Transport hazard class(es) 9 Emergency Response Guide 171

Number

**TDG** 

UN/ID no UN3316

Proper shipping name CHEMICAL KIT

Transport hazard class(es) 9
Packing Group | |

**IATA** 

UN number or ID number UN3316
Proper shipping name UN3316

Transport hazard class(es) 9 ERG Code 9L

**IMDG** 

UN number or ID number UN3316

Proper shipping name CHEMICAL KIT

Transport hazard class(es) 9

**EmS-No** F-A, S-P **Special Provisions** 251, 340

## **Additional information**

This product forms part of a kit. Information in this section relates to the kit as a whole.

## 15. REGULATORY INFORMATION

**National Inventories** 

TSCA Complies DSL/NDSL Complies

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

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

International Inventories

**EINECS/ELINCS** Complies Does not comply **ENCS** Complies **IECSC** Complies **KECL** Complies **PICCS** Complies TCSI Complies **AICS** Complies **NZIoC** 

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 and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

TCSI - Taiwan Chemical Substances Inventory

**AICS** - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

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## **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

Acute health hazard Yes
Chronic Health Hazard Yes
Fire hazard No
Sudden release of pressure hazard No
Reactive Hazard No

#### **CWA (Clean Water Act)**

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

## **US State Regulations**

### **California Proposition 65**

This product does not contain any Proposition 65 chemicals

IMERC: Not applicable

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

This product may contain substances regulated by state right-to-know regulations.

| Chemical name                   | New Jersey | Massachusetts | Pennsylvania |
|---------------------------------|------------|---------------|--------------|
| Sodium persulfate               | X          | -             | -            |
| 7775-27-1                       |            |               |              |
| Boric acid (HBO2), sodium salt, | X          | -             | -            |
| tetrahydrate                    |            |               |              |
| 10555-76-7                      |            |               |              |

#### **U.S. EPA Label Information**

| Chemical name                                | FIFRA    | FDA |
|--|----------|-----|
| Boric acid (HBO2), sodium salt, tetrahydrate | 180.1121 | -   |

## 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

## **Special Comments**

None

#### **Additional information**

Global Automotive Declarable Substance List (GADSL)

Not applicable

**NFPA and HMIS Classifications** 

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| NFPA | Health hazards - 2        | Flammability - 0 | Instability - 0      | Physical and chemical properties - |
|------|---------------------------|------------------|----------------------|------------------------------------|
| HMIS | Health hazards - 2<br>- * | Flammability - 0 | Physical hazards - 0 | Personal protection - X - I        |

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

ACGIH ACGIH (American Conference of Governmental Industrial Hygienists)

ATSDR ATSDR (Agency for Toxic Substances and Disease Registry)
CCRIS (Chemical Carcinogenesis Research Information System)

CDC (Center for Disease Control)

CEPA CEPA (Canadian Environmental Protection Agency)

CICAD CICAD (Concise International Chemical Assessment Documents)

ECHA ECHA (The European Chemicals Agency)
EEA EEA (European Environment Agency)
EPA EPA (Environmental Protection Agency)

ERMA ERMA (New Zealands Environmental Risk Management Authority)

ECOSARS Estimation through ECOSARS v1.11 part of the Estimation Programs Interface (EPI) Suite™

FDA FDA (Food & Drug Administration)

GESTIS GESTIS (Information System on Hazardous Substances of the German Social Accident

Insurance)

HSDB (Hazardous Substances Data Bank)

INERIS INERIS (The National Industrial Environment and Risks Institute)
IPCS INCHEM IPCS INCHEM (International Programme on Chemical Safety)
IUCLID IUCLID (The International Uniform Chemical Information Database)
NITE Japan National Institute of Technology and Evaluation (NITE)

NIH (National Institutes of Health)

NIOSH NIOSH (National Institute for Occupational Safety and Health)
LOLI (List of Lists - An International Chemical Regulatory Database)

NDF no data

NICNAS Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH IDLH Immediately Dangerous to Life or Health

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

PEEN (Pan European Ecological Network)

RTECS (Registry of Toxic Effects of Chemical Substances)
SIDS (Screening Information Dataset) for High Volume Chemicals

SYKE The Finnish Environment Institute (SYKE)
USDA USDA (United States Department of Agriculture)
USDC USDC (United States Department of Commerce)

WHO (World Health Organization)

#### Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

MAC Maximum Allowable Concentration Ceiling Ceiling Limit Value

X Listed Vacated These values have no official status. The only

binding levels of contaminants are those listed in the final OSHA PEL. These lists are for reference purposes only. Please note that some reference state regulations of these "liberated" exposure limits in their state

regulations.

SKN\* Skin designation SKN+ Skin sensitization
RSP+ Respiratory sensitization \*\* Hazard Designation
C Carcinogen R Reproductive toxicant

M mutagen

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Product Name Phosphorus LR TNT Reagent A

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### **Disclaimer**

USER RESPONSIBILITY: Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

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**End of Safety Data Sheet** 

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