



**Be Right™**

# SAFETY DATA SHEET

Issue Date 17-Aug-2016

Revision Date 11-Jan-2018

Version 6.1

Page 1 / 15

## 1. IDENTIFICATION

### Product identifier

**Product Name** Metals Prep Set Reagent B

### Other means of identification

**Product Code(s)** TNT890B

**Safety data sheet number** M00039

**UN/ID no** UN1492

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

**Recommended Use** Laboratory Use.

**Uses advised against** None.

**Restrictions on use** None.

### 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 +1(515)232-2533 - 8am - 4pm CST

## 2. HAZARDS IDENTIFICATION

### Classification

#### Regulatory Status

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

Oxidizing solids	Category 3
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
Specific target organ toxicity (single exposure)	Category 3

#### Hazards not otherwise classified (HNOC)

Not applicable

### Label elements

**Signal word - Danger**



#### **Hazard statements**

H272 - May intensify fire; oxidizer  
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

#### **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  
P362 - Take off contaminated clothing and wash before reuse  
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 advice/attention  
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  
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water  
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention  
P363 - Wash contaminated clothing before reuse  
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray  
P271 - Use only outdoors or in a well-ventilated area  
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed  
P405 - Store locked up  
P501 - Dispose of contents/ container to an approved waste disposal plant  
P210 - Keep away from heat  
P220 - Keep/Store away from clothing/ combustible materials  
P221 - Take any precaution to avoid mixing with combustibles  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

#### **Other Hazards Known**

Harmful to aquatic life

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### **Substance**

<b>Chemical Name</b>	Potassium persulfate
<b>Chemical Family</b>	Oxidizing Agents.

**Product Code(s)** TNT890B  
**Issue Date** 17-Aug-2016  
**Version** 6.1

**Product Name** Metals Prep Set Reagent B  
**Revision Date** 11-Jan-2018  
**Page** 3 / 15

**Formula**  $K_2S_2O_8$   
**CAS No** 7727-21-1

Percent ranges are used where confidential product information is applicable.

Chemical name	CAS No.	Percent Range	HMRIC #
Potassium persulfate	7727-21-1	100%	-

#### 4. FIRST AID MEASURES

##### Description of first aid measures

<b>General advice</b>	Show this safety data sheet to the doctor in attendance.
<b>Inhalation</b>	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.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
<b>Skin contact</b>	IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. 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.
<b>Ingestion</b>	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.
<b>Self-protection of the first aider</b>	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

<b>Symptoms</b>	May cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing and/ or wheezing. Itching. Rashes. Hives. Burning sensation.
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##### Indication of any immediate medical attention and special treatment needed

<b>Note to physicians</b>	May cause sensitization in susceptible persons. Treat symptomatically.
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#### 5. FIRE-FIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Use water. Do not use dry chemicals or foams. CO <sub>2</sub> or Halon may provide limited control. Flood fire area with water from a distance. Move containers from fire area if you can do it without risk. Cool containers with flooding quantities of water until well after fire is out.
<b>Unsuitable Extinguishing Media</b>	Dry chemical. Foam. Caution: Use of water spray when fighting fire may be inefficient.
<b>Specific hazards arising from the chemical</b>	These substances will accelerate burning when involved in a fire. Some may decompose explosively when heated or involved in a fire. May ignite combustibles (wood, paper, oil, clothing, etc.). Runoff may create fire or explosion hazard. 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. Potassium oxides.

**Special protective equipment for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do it without risk. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. ALWAYS stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible withdraw from area and let fire burn.

## 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 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** Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. See section 8 for more information. Stop leak if you can do it without risk. Use personal protective equipment as required.

**Other Information** Keep combustibles (wood, paper, oil, etc) away from spilled material. DO NOT GET WATER INSIDE CONTAINERS. Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

### Environmental precautions

**Environmental precautions** Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

### Methods and material for containment and cleaning up

**Methods for containment** Stop leak if you can do it without risk. Cover with DRY earth, DRY sand or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain.

**Methods for cleaning up** With clean shovel place material into clean, dry container and cover loosely; move containers from spill area. Flush area with flooding quantities of water. Prevent product from entering drains. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry.

**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** Use personal protection equipment. Avoid contact with skin, eyes or clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes.

**Product Code(s)** TNT890B  
**Issue Date** 17-Aug-2016  
**Version** 6.1

**Product Name** Metals Prep Set Reagent B  
**Revision Date** 11-Jan-2018  
**Page** 5 / 15

Use with local exhaust ventilation. Handle in accordance with good industrial hygiene and safety practice. Provide extract ventilation to points where emissions occur. In case of insufficient ventilation, wear suitable respiratory equipment. 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 in properly labeled containers. Do not store near combustible materials. Store in accordance with the particular national regulations. Store in accordance with local regulations. 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 IDLH
Potassium persulfate CAS#: 7727-21-1	TWA: 0.1 mg/m <sup>3</sup>	NDF	NDF

**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.

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

**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Wear fire/flame resistant/retardant clothing.

**General Hygiene Considerations** Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

**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

**Product Code(s)** TNT890B  
**Issue Date** 17-Aug-2016  
**Version** 6.1

**Product Name** Metals Prep Set Reagent B  
**Revision Date** 11-Jan-2018  
**Page** 6 / 15

**Appearance** crystalline  
**Odor** None

**Color** White to yellow  
**Odor threshold** No data available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>Molecular weight</b>	270.32 g/mole	
<b>pH</b>	4.1	5.0% Solution
<b>Melting point/freezing point</b>	>= 170 °C / 338 °F	
<b>Boiling point / boiling range</b>	No data available	
<b>Evaporation rate</b>	Not applicable	
<b>Vapor pressure</b>	Not applicable	
<b>Vapor density (air = 1)</b>	Not applicable	
<b>Specific gravity (water = 1 / air = 1)</b>	2.477	
<b>Partition Coefficient (n-octanol/water)</b>	log K <sub>ow</sub> ~ 0	
<b>Soil Organic Carbon-Water Partition Coefficient</b>	log K <sub>oc</sub> ~ 0	
<b>Autoignition temperature</b>	No data available	
<b>Decomposition temperature</b>	100 °C / 212 °F	
<b>Dynamic viscosity</b>	Not applicable	
<b>Kinematic viscosity</b>	Not applicable	

**Solubility(ies)**

**Water solubility**

<u>Water solubility classification</u>	<u>Water solubility</u>	<u>Water Solubility Temperature</u>
Soluble	> 1000 mg/L	25 °C / 77 °F

**Solubility in other solvents**

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

**Other Information**

**Metal Corrosivity**

**Steel Corrosion Rate** Not applicable  
**Aluminum Corrosion Rate** Not applicable

**Volatile Organic Compounds (VOC) Content**  
Not applicable

<u>Chemical name</u>	<u>CAS No.</u>	<u>Volatile organic compounds (VOC) content</u>	<u>CAA (Clean Air Act)</u>
Potassium persulfate	7727-21-1	No data available	-

**Explosive properties**

**Product Code(s)** TNT890B  
**Issue Date** 17-Aug-2016  
**Version** 6.1

**Product Name** Metals Prep Set Reagent B  
**Revision Date** 11-Jan-2018  
**Page** 7 / 15

**Upper explosion limit**  
**Lower explosion limit**

No data available  
No data available

**Flammable properties**

**Flash point**

Not applicable

**Flammability Limit in Air**

**Upper flammability limit:**  
**Lower flammability limit:**

No data available  
No data available

**Oxidizing properties**

Classified as an oxidizer according to GHS criteria.

**Bulk density**

No data available

**Particle Size**

No information available

**Particle Size Distribution**

No information available

## 10. STABILITY AND REACTIVITY

**Reactivity**

Oxidizer.

**Chemical stability**

**Stability**

May cause fire or explosion; strong oxidizer.

**Explosion data**

**Sensitivity to Mechanical Impact** None

**Sensitivity to Static Discharge** Yes.

**Possibility of Hazardous Reactions**

**Possibility of Hazardous Reactions** None under normal processing.

**Hazardous polymerization**

None under normal processing.

**Conditions to avoid**

**Conditions to avoid**

Heat, flames and sparks. Incompatible materials.

**Incompatible materials**

**Incompatible materials**

organic material. Combustible material. Hydrocarbons. Strong acids. Strong bases. Strong oxidizing agents.

**Hazardous Decomposition Products**

Sulfur oxides.

## 11. TOXICOLOGICAL INFORMATION

**Information on Likely Routes of Exposure**

**Product Information**

**Inhalation**

Specific test data for the substance or mixture is not available. May cause sensitization in susceptible persons. (based on components). May cause irritation of respiratory tract.

**Eye contact**

Specific test data for the substance or mixture is not available. Irritating to eyes. (based on components). Causes serious eye irritation.

**Skin contact**

Specific test data for the substance or mixture is not available. Repeated or prolonged skin

**Product Code(s)** TNT890B  
**Issue Date** 17-Aug-2016  
**Version** 6.1

**Product Name** Metals Prep Set Reagent B  
**Revision Date** 11-Jan-2018  
**Page** 8 / 15

contact may cause allergic reactions with susceptible persons. (based on components).  
 May cause sensitization by skin contact. Causes skin irritation.

**Ingestion**

Specific test data for the substance or mixture is not available. May cause additional affects as listed under "Inhalation". Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Harmful if swallowed. (based on components).

**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.

**Aggravated Medical Conditions**  
**Toxicologically synergistic products**  
**Toxicokinetics, metabolism and distribution**

Skin disorders. Eye disorders. Respiratory disorders.  
 None known.  
 This Product is by Weight 100% an Individual Pure Chemical Substance.

**Product Acute Toxicity Data**

This Product is by Weight 100% an Individual Pure Chemical Substance

**Oral Exposure Route**  
**Dermal Exposure Route**  
**Inhalation (Dust/Mist) Exposure Route**  
**Inhalation (Vapor) Exposure Route**  
**Inhalation (Gas) Exposure Route**

If available, see ingredient data below  
 If available, see ingredient data below  
 If available, see ingredient data below  
 If available, see ingredient data below  
 If available, see ingredient data below

**Acute Toxicity Estimations (ATE)**

Not applicable

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

<b>ATEmix (oral)</b>	No information available
<b>ATEmix (dermal)</b>	No information available
<b>ATEmix (inhalation-dust/mist)</b>	No information available
<b>ATEmix (inhalation-vapor)</b>	No information available
<b>ATEmix (inhalation-gas)</b>	No information available

**Ingredient Acute Toxicity Data**

**Oral Exposure Route**

If available, see data below

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Potassium persulfate (100%) CAS#: 7727-21-1	Rat LD <sub>50</sub>	802 mg/kg	None reported	None reported	IUCLID (The International Uniform Chemical Information Database)

**Dermal Exposure Route**  
**Inhalation (Dust/Mist) Exposure Route**  
**Inhalation (Vapor) Exposure Route**  
**Inhalation (Gas) Exposure Route**

If available, see data below  
 If available, see data below  
 If available, see data below  
 If available, see data below

**Product Specific Target Organ Toxicity Single Exposure Data**

**Oral Exposure Route**  
**Dermal Exposure Route**  
**Inhalation (Dust/Mist) Exposure Route**  
**Inhalation (Vapor) Exposure Route**  
**Inhalation (Gas) Exposure Route**

If available, see ingredient data below  
 If available, see ingredient data below  
 If available, see ingredient data below  
 If available, see ingredient data below  
 If available, see ingredient data below

**Ingredient Specific Target Organ Toxicity Single Exposure Data**

**Oral Exposure Route**  
**Dermal Exposure Route**  
**Inhalation (Dust/Mist) Exposure Route**  
**Inhalation (Vapor) Exposure Route**

If available, see data below  
 If available, see data below  
 If available, see data below  
 If available, see data below



**Product Code(s)** TNT890B  
**Issue Date** 17-Aug-2016  
**Version** 6.1

**Product Name** Metals Prep Set Reagent B  
**Revision Date** 11-Jan-2018  
**Page** 9 / 15

**Inhalation (Gas) Exposure Route**

If available, see data below

**Aspiration toxicity**

If available, see data below

**Kinematic viscosity**

Not applicable

**Product Skin Corrosion/Irritation Data**

This Product is by Weight 100% an Individual Pure Chemical Substance. If available, see ingredient data below.

**Ingredient Skin Corrosion/Irritation Data**

If available, see data below

**Product Serious Eye Damage/Eye Irritation Data**

This Product is by Weight 100% an Individual Pure Chemical Substance. If available, see ingredient data below.

**Ingredient Eye Damage/Eye Irritation Data**

No data available

**Sensitization Information**

**Product Sensitization Data**

**Skin Sensitization Exposure Route**

This Product is by Weight 100% an Individual Pure Chemical Substance. If available, see ingredient data below.

**Respiratory Sensitization Exposure Route**

This Product is by Weight 100% an Individual Pure Chemical Substance. If available, see ingredient data below.

**Ingredient Sensitization Data**

**Skin Sensitization Exposure Route**

If available, see data below.

**Respiratory Sensitization Exposure Route**

If available, see data below.

**Chronic Toxicity Information**

**Product Specific Target Organ Toxicity Repeat Dose Data**

**Oral Exposure Route**

If available, see ingredient data below.

**Dermal Exposure Route**

If available, see ingredient data below.

**Inhalation (Dust/Mist) Exposure Route**

If available, see ingredient data below.

**Inhalation (Vapor) Exposure Route**

If available, see ingredient data below.

**Inhalation (Gas) Exposure Route**

If available, see ingredient data below.

**Ingredient Specific Target Organ Toxicity Repeat Exposure Data**

**Oral Exposure Route**

If available, see data below

**Dermal Exposure Route**

If available, see data below

**Inhalation (Dust/Mist) Exposure Route**

If available, see data below

**Inhalation (Vapor) Exposure Route**

If available, see data below

**Inhalation (Gas) Exposure Route**

If available, see data below

**Product Carcinogenicity Data**

**Oral Exposure Route**

If available, see ingredient data below

**Dermal Exposure Route**

If available, see ingredient data below

**Inhalation (Dust/Mist) Exposure Route**

If available, see ingredient data below

**Inhalation (Vapor) Exposure Route**

If available, see ingredient data below

**Inhalation (Gas) Exposure Route**

If available, see ingredient data below

**Ingredient Carcinogenicity Data**

Chemical name	CAS No.	ACGIH	IARC	NTP	OSHA
Potassium persulfate	7727-21-1	-	-	-	-

**Legend**

ACGIH (American Conference of Governmental Industrial Hygienists)	Does not apply
IARC (International Agency for Research on Cancer)	Does not apply

**Product Code(s)** TNT890B  
**Issue Date** 17-Aug-2016  
**Version** 6.1

**Product Name** Metals Prep Set Reagent B  
**Revision Date** 11-Jan-2018  
**Page** 10 / 15

<b>NTP (National Toxicology Program)</b>	Does not apply
<b>OSHA (Occupational Safety and Health Administration of the US Department of Labor)</b>	Does not apply

<b>Oral Exposure Route</b>	If available, see data below
<b>Dermal Exposure Route</b>	If available, see data below
<b>Inhalation (Dust/Mist) Exposure Route</b>	If available, see data below
<b>Inhalation (Vapor) Exposure Route</b>	If available, see data below
<b>Inhalation (Gas) Exposure Route</b>	If available, see data below

**Product Germ Cell Mutagenicity *invitro* Data**

This Product is by Weight 100% an Individual Pure Chemical Substance. If available, see ingredient data below.

**Ingredient Germ Cell Mutagenicity *invitro* Data**

No data available

**Product Germ Cell Mutagenicity *invivo* Data**

<b>Oral Exposure Route</b>	If available, see ingredient data below
<b>Dermal Exposure Route</b>	If available, see ingredient data below
<b>Inhalation (Dust/Mist) Exposure Route</b>	If available, see ingredient data below
<b>Inhalation (Vapor) Exposure Route</b>	If available, see ingredient data below
<b>Inhalation (Gas) Exposure Route</b>	If available, see ingredient data below

**Ingredient Germ Cell Mutagenicity *invivo* Data**

<b>Oral Exposure Route</b>	If available, see data below
<b>Dermal Exposure Route</b>	If available, see data below
<b>Inhalation (Dust/Mist) Exposure Route</b>	If available, see data below
<b>Inhalation (Vapor) Exposure Route</b>	If available, see data below
<b>Inhalation (Gas) Exposure Route</b>	If available, see data below

**Product Reproductive Toxicity Data**

<b>Oral Exposure Route</b>	If available, see ingredient data below
<b>Dermal Exposure Route</b>	If available, see ingredient data below
<b>Inhalation (Dust/Mist) Exposure Route</b>	If available, see ingredient data below
<b>Inhalation (Vapor) Exposure Route</b>	If available, see ingredient data below
<b>Inhalation (Gas) Exposure Route</b>	If available, see ingredient data below

**Ingredient Reproductive Toxicity Data**

<b>Oral Exposure Route</b>	If available, see data below
<b>Inhalation (Dust/Mist) Exposure Route</b>	If available, see data below
<b>Inhalation (Vapor) Exposure Route</b>	If available, see data below
<b>Inhalation (Gas) Exposure Route</b>	If available, see data below

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Not considered to be harmful to aquatic life

**Product Ecological Data**

This Product is by Weight 100% an Individual Pure Chemical Substance

**Aquatic toxicity**

<b>Fish</b>	If available, see ingredient data below
<b>Crustacea</b>	If available, see ingredient data below
<b>Algae</b>	If available, see ingredient data below

**Ingredient Ecological Data**

**Aquatic toxicity**

<b>Fish</b>	No data available
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**Product Code(s)** TNT890B  
**Issue Date** 17-Aug-2016  
**Version** 6.1

**Product Name** Metals Prep Set Reagent B  
**Revision Date** 11-Jan-2018  
**Page** 11 / 15

#### Crustacea

If available, see ingredient data below

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Potassium persulfate (100%) CAS#: 7727-21-1	48 Hours	<i>Daphnia magna</i>	EC <sub>50</sub>	92 mg/L	EPA (United States Environmental Protection Agency)

#### Algae

No data available

#### Other Information

#### Persistence and degradability

#### Product Biodegradability Data

This Product is by Weight 100% an Individual Pure Chemical Substance. If available, see ingredient data below.

#### Ingredient Biodegradability Data

Test data reported below

Chemical name	Test method	Biodegradation	Exposure time	Results
Potassium persulfate (100%) CAS#: 7727-21-1	Degrades through hydrolyse reaction	None reported	None reported	Readily biodegradable

#### Bioaccumulation

#### Product Bioaccumulation Data

This Product is by Weight 100% an Individual Pure Chemical Substance. If available, see ingredient data below.

#### Partition Coefficient (n-octanol/water)

log K<sub>ow</sub> ~ 0

#### Ingredient Bioaccumulation Data

Chemical name	Test method	Exposure time	Species	Bioconcentration factor (BCF)	Results
Potassium persulfate (100%) CAS#: 7727-21-1	Estimation through BCFBAF v3.01 part of the Estimation Programs Interface (EPI) Suite™	None reported	None reported	BCF = 3.16228	Does not have the potential to bioaccumulate

#### Mobility

#### Soil Organic Carbon-Water Partition Coefficient

log K<sub>oc</sub> ~ 0

#### Water solubility

Water solubility classification	Water solubility	Water Solubility Temperature
Soluble	> 1000 mg/L	25 °C / 77 °F

#### Other adverse effects

No information available.

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

**Product Code(s)** TNT890B  
**Issue Date** 17-Aug-2016  
**Version** 6.1

**Product Name** Metals Prep Set Reagent B  
**Revision Date** 11-Jan-2018  
**Page** 12 / 15

<b>Waste from residues/unused products</b>	Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
<b>Contaminated packaging</b>	Do not reuse empty containers.
<b>US EPA Waste Number</b>	D001

#### 14. TRANSPORT INFORMATION

##### U.S. DOT

<b>UN/ID no</b>	UN1492
<b>Proper shipping name</b>	Potassium persulfate
<b>Hazard Class</b>	5.1
<b>Packing Group</b>	III
<b>Emergency Response Guide Number</b>	140

##### TDG

<b>UN/ID no</b>	UN1492
<b>Proper shipping name</b>	Potassium persulfate
<b>Hazard Class</b>	5.1
<b>Packing Group</b>	III

##### IATA

<b>UN/ID no</b>	UN1492
<b>Proper shipping name</b>	Potassium persulfate
<b>Hazard Class</b>	5.1
<b>Packing Group</b>	III
<b>ERG Code</b>	140

##### IMDG

<b>UN/ID no</b>	UN1492
<b>Proper shipping name</b>	Potassium persulfate
<b>Hazard Class</b>	5.1
<b>Packing Group</b>	III

**Note:** No special precautions necessary.

##### **Additional information**

There is a possibility that this product could be contained in a reagent set or kit composed of various compatible dangerous goods. If the item is not in a reagent set or kit, the classification given above applies.  
If the item is part of a reagent set or kit the classification would change to the following:  
UN3316 Chemical Kit, Hazard Class 9, Packing Group II or III.  
If the item is not regulated, the Chemical Kit classification does not apply.

#### 15. REGULATORY INFORMATION

##### National Inventories

<b>TSCA</b>	Complies
<b>DSL/NDSL</b>	Complies

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

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

##### International Inventories

<b>EINECS/ELINCS</b>	Complies
<b>ENCS</b>	Complies
<b>IECSC</b>	Complies

**Product Code(s)** TNT890B  
**Issue Date** 17-Aug-2016  
**Version** 6.1

**Product Name** Metals Prep Set Reagent B  
**Revision Date** 11-Jan-2018  
**Page** 13 / 15

<b>KECL</b>	Complies
<b>PICCS</b>	Complies
<b>TCSI</b>	Complies
<b>AICS</b>	Complies
<b>NZIoC</b>	Complies

**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

### **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**

<b>Acute health hazard</b>	Yes
<b>Chronic Health Hazard</b>	No
<b>Fire hazard</b>	No
<b>Sudden release of pressure hazard</b>	No
<b>Reactive Hazard</b>	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

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

Chemical name	New Jersey	Massachusetts	Pennsylvania
Potassium persulfate 7727-21-1	X	X	X

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

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

**Product Code(s)** TNT890B  
**Issue Date** 17-Aug-2016  
**Version** 6.1

**Product Name** Metals Prep Set Reagent B  
**Revision Date** 11-Jan-2018  
**Page** 14 / 15

**Special Comments**

None

**Additional information**

**Global Automotive Declarable Substance List (GADSL)**

Not applicable

**NFPA and HMIS Classifications**

<b>NFPA</b>	<b>Health hazards - 2</b>	<b>Flammability - 0</b>	<b>Instability - 0</b>	<b>Physical and Chemical Properties OX</b>
<b>HMIS</b>	<b>Health hazards - 2</b>	<b>Flammability - 0</b>	<b>Physical Hazards - 0</b>	<b>Personal protection - X</b> - See section 8 for more information

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

NIOSH IDLH	<i>Immediately Dangerous to Life or Health</i>
ACGIH	ACGIH (American Conference of Governmental Industrial Hygienists)
NDF	<i>no data</i>

**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		

**Prepared By** Hach Product Compliance Department

**Issue Date** 17-Aug-2016

**Revision Date** 11-Jan-2018

**Revision Note** None

**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.

**THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.**

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**Product Code(s)** TNT890B  
**Issue Date** 17-Aug-2016  
**Version** 6.1

**Product Name** Metals Prep Set Reagent B  
**Revision Date** 11-Jan-2018  
**Page** 15 / 15

**End of Safety Data Sheet**