

SAFETY DATA SHEET

According to 29 CFR 1910.1200 Hazard Communication Standard 2012 (HazCom 2012)

Revision: 9/12/2023

SECTION 1: Identification

Product identifier

Product name Iron Total 3 - Reagent B

Product number R-8044B

Recommended use and

restrictions

To be used in accordance with manufacturer instructions or under the direct guidance of the

manufacturer.

Manufacturer Taylor Water Technologies LLC

31 Loveton Circle Sparks, MD 21152

Local: (410) 472-4340 – 8am – 5pm EST Toll-free: (800) 837-8548 – 8am – 5pm EST

Emergency telephone number

CHEMTREC, United States 1-800-424-9300 – 24-hour service CHEMTREC, International +1 703-527-3887 – 24-hour service

SECTION 2: Hazard(s) identification

Physical hazardsSelf-heating substances and mixturesCategory 1Health hazardsEye damage/irritationCategory 1

Environmental hazards Not classified

Label elements

Hazard pictograms





Signal word Danger

Hazard statements Self-heating; may catch fire. Causes serious eye damage.

Precautionary statements

Prevention Keep cool. Protect from sunlight. Wear protective gloves/eye protection/face protection.

Response IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present

and easy to do. Continue rinsing. Immediately call a physician or poison control center.

Storage Maintain air gap between stacks/pallets. Store away from other materials. Keep tightly capped.

Store out of direct sunlight between 36°F-85°F.

Disposal Dispose of contents/container in accordance with local/regional/national/international

regulations.

Hazards not otherwise classified Not applicable

SECTION 3: Composition/information on ingredients Mixture

Mixture			
Chemical name	Common name and synonyms	CAS number	% w/w
Sodium hydrosulfite	Disodium dithionite; Sodium hydrosulphite	7775-14-6	7-13
Sodium metabisulfite	Disodium disulphite; Sodium disulfite	7681-57-4	7-13
Non-hazardous and other components below reportable levels	Not applicable	Not applicable	≤75

SECTION 4: First-aid measures

If inhaled

Remove individual to fresh air. Seek medical advice/attention if breathing becomes difficult or if respiratory irritation develops. Give oxygen or artificial respiration if needed.

SDS US

In case of skin contact

Immediately flush skin with plenty of water for at least 20 minutes. If clothing comes in contact with the product, the clothing should be removed and laundered before reuse. Seek medical advice/attention if irritation develops.

In case of eye contact

Immediately flush eyes with plenty of water for at least 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms persist or in all cases of concern, seek medical advice/attention.

If swallowed

Rinse mouth. Never give anything by mouth to a person who is unconscious or is having convulsions. Do NOT induce vomiting unless directed by physician. If vomiting occurs, keep head low so that stomach content does not get into the lungs. If symptoms persist or in all cases of concern, seek medical advice/attention.

Most important symptoms and effects, both acute and delayed

Direct eye contact may cause serious eye damage. Scarring or permanent damage, including blindness, could result. Symptoms may include pain, redness or swelling, tearing of the eyes or blurred vision. Direct skin contact may cause temporary irritation. Symptoms may include redness or itching. Inhalation may cause respiratory irritation, such as coughing. Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

Refer to section 11 of the SDS for delayed and immediate effects and chronic effects from short- and long-term exposure.

Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.

General information

Ensure medical personnel are aware of the material(s) involved and take precautions to protect themselves.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media Small fire: Dry chemical powder or dry sand.

Large fire: Use flooding amounts of water to stop the reaction.

Unsuitable extinguishing media Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Specific hazards arising from the substance or mixture

Fire hazard Addition of small amounts of water may cause self-ignition. May re-ignite after fire is

extinguished.

Explosion hazard Not explosive

Reactivity Decomposes when in contact with water, evolving heat.

Hazardous combustion products Hydrogen chloride gas, potassium oxides, sodium oxides, sulfur oxides.

Advice for firefighters

Precautionary measures Exercise caution when fighting any chemical fire; hazardous fumes will be present.

Firefighting

Wear full protective gear. Evacuate the area promptly. Fight fire from upwind to avoid exposure

equipment/instructions to combustion products. Do not get water inside container. Cool containers with flooding quantities of water until well after fire is out. If it can be done safely, move undamaged

containers away from fire area.

Protection during firefighting Do not enter fire area without proper protective equipment, including respiratory protection.

Other information Refer to section 9 of the SDS for flammability properties.

SECTION 6: Accidental release measures

Personal precautions, protective equipment, and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during cleanup. Do not breathe dust. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protective equipment, refer to section 8 of the SDS.

Environmental precautions

Avoid discharge into drains, watercourses, or onto the ground.

Methods and material for containment and cleaning up

Avoid dispersal of dust in air (i.e., clearing dust surfaces with compressed air). Sweep up or vacuum up spillage and collect in suitable container for later disposal. Following product recovery, flush area with water to remove residual contamination. Never return spills to original containers for reuse. In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

Reference to other sections

For exposure controls and personal protection, refer to section 8 of the SDS. For waste disposal, refer to section 13 of the SDS.

SECTION 7: Handling and storage

Precautions for safe handling

Do not breathe dust. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. For personal protective equipment, refer to section 8 of the

SDS. Keep away from incompatibles. Observe good industrial hygiene practices. Label containers appropriately.

Conditions for safe storage, including any incompatibilities

Maintain air gap between stacks/pallets. Store away from other materials. Keep tightly capped. Store out of direct sunlight between 36°F-85°F. Store locked up. Store away from incompatible materials (refer to section 10 of the SDS).

SECTION 8: Exposure controls/personal protection

Occupational exposure limits

US ACGIH Threshold Limit Values

Components	Туре	<u>Value</u>	
Sodium metabisulfite (CAS 7681-57-4)	TWA	5 mg/m ³	
Sodium metabisulfite (CAS 7681-57-4)	STEL (30 min)	15 mg/m ³	
US NIOSH: Pocket Guide to Chemical Hazards			
Components	Туре	Value	
Sodium metabisulfite (CAS 7681-57-4)	TWA	5 mg/m ³	

US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Not regulated

Biological limit values

No biological exposure limits noted for the ingredient(s).

Exposure controls

Appropriate engineering controls Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates

should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eyewash facilities and emergency shower must be available when handling

this product.

Personal protective equipment

Eye/face protection Wear appropriate chemical safety goggles. Skin protection Wear appropriate chemical-resistant gloves.

Body protection Wear appropriate protective clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment. Use a NIOSH/MSHA

approved respirator if there is a risk of exposure to dust/fumes at levels exceeding the exposure

limits. Advice should be sought from respiratory protection suppliers.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state Solid Form Powder Color White Odor Sulfur

Odor threshold No data available рΗ No data available Evaporation rate No data available Melting point No data available Freezing point No data available Initial boiling point (boiling No data available

range) No data available Flash point Specific gravity No data available Auto-ignition temperature No data available Decomposition temperature No data available Flammability (solid, gas) Combustible solid Upper Flammability Limit No data available Lower Flammability Limit No data available Vapor pressure No data available

Relative vapor density No data available

Solubility Soluble in all proportions

Partition coefficient (n-octanol/water)

No data available

Viscosity, No data available
Explosive properties Not explosive
Oxidizing properties Not oxidizing

SECTION 10: Stability and reactivity

Reactivity Small amounts of water may cause self-ignition.

Chemical stability Stable under recommended handling and storage conditions (refer to section 7 of the SDS).

Possibility of hazardous

reactions

Exposure to moisture. Closed containers may rupture violently when heated.

Conditions to avoidHeat. Moisture. Contact with incompatible materials. Do not allow water to enter the container.

Do not use in areas without adequate ventilation.

Incompatible materials Strong acids, strong oxidizing agents, water.

Hazardous decomposition

products

Sulfur oxides.

SECTION 11: Toxicological information

Information on toxicological effects

Inhalation Avoid inhalation of this product. Use in a well-ventilated area.

Skin contact Protect exposed skin from contact. Use caution to avoid contact.

Eye contact Avoid close eye contact; use caution to avoid accidental contact. Wear eye protection.

Ingestion Avoid accidental ingestion by observing good hygiene practices. Wash hands thoroughly after

handling this product.

Symptoms related to the physical, chemical, and toxicological characteristics

Direct eye contact may cause serious eye damage. Refer to section 4 of the SDS for most

important symptoms and effects.

Delayed and immediate effects and chronic effects from short- and long-term exposure

Acute toxicity This product is not classified as an acute hazard. Acute toxicity estimate (ATE) has been

calculated based on chapter 3 of GHS.

Product acute toxicity estimate (ATE)

 ATEmix (Oral)
 2170 mg/kg

 ATEmix (Dermal)
 > 2000 mg/kg

 ATEmix (Inhalation)
 > 5 mg/L, dust

Component(s) Species Acute toxicity data

Sodium hydrosulfite (CAS 7775-14-6)

LD50 (Oral) Rat 1420-3200 mg/kg (source: ECHA)

 LD50 (Dermal)
 Rat
 2000 mg/kg

 LC50 (Inhalation)
 Rat
 5.5 mg/L, dust

Sodium metabisulfite (CAS 7681-57-4)

LD50 (Oral) Rat 1420-3200 mg/kg (source: ECHA)

 LD50 (Dermal)
 Rat
 2000 mg/kg

 LC50 (Inhalation)
 Rat
 5.5 mg/L, dust

Skin corrosion/irritation No data available

Serious eye damage/eye

irritation

Causes serious eye damage

Respiratory sensitization No data available
Skin sensitization No data available
Germ cell mutagenicity No data available

Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Sodium metabisulfite, Group 3; Not classifiable as to its carcinogenicity to humans

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096)

Not regulated

US National Toxicology Program (NTP) Report on Carcinogens

Not classified

Reproductive toxicity

No data available

Specific target organ toxicity

No data available

(single exposure)

Specific target organ toxicity

(repeated exposure)

No data available

Aspiration hazard No data available

SECTION 12: Ecological information

Ecotoxicity This product is not classified as environmentally hazardous.

Persistence and degradability

Bioaccumulative potential

Mobility in soil

No data available

No data available

Other adverse effects Large or frequent spills can have a harmful or damaging effect on the environment.

SECTION 13: Disposal considerations

Collect and reclaim or dispose of in sealed containers at a licensed waste disposal site. Since emptied containers may retain product residue, follow label warnings even after container is emptied. This material and its container must be disposed of in a safe manner. Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 14: Transport information

DOT

UN number 1384

UN proper shipping name Sodium dithionite

Reportable Quantity None
Class (Subsidiary risk) 4.2
Label(s) 4.2
Packing group II

Special provisions A19, A20, IB6, IP2, T3, TP33, W31

Packaging exceptions None Packaging, non-bulk 212

IATA

UN number 1384

UN proper shipping name Sodium dithionite

Class (Subsidiary risk) 4.2
Packing group II
Special provisions None

IMDG

UN number 1384

UN proper shipping name Sodium dithionite

Class (Subsidiary risk) 4.2
Packing group

Environmental hazards

Marine pollutant No EmS F-A, S-J

Special precautions for user Read safety instructions, SDS, and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

This substance/mixture is not intended to be transported in bulk.



IATA/IMDG hazard pictograms

SECTION 15: Regulatory information

US federal regulations

CERCLA Hazardous Substance (40 CFR 302.4)

Not regulated

SARA 302 Extremely Hazardous Substance (40 CFR 355 Appendices A / B)

Not regulated

SARA 304 Emergency Release Notification

Not regulated

SARA 311/312 Hazardous Chemical

Chemical name	CAS number	
Sodium hydrosulfite	7775-14-6	
Sodium metabisulfite	7681-57-4	

SARA 313 (TRI reporting)

Not regulated

TSCA Section 8(b) Chemical Inventory

All components are on the U.S. EPA TSCA Inventory list.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs)

Not regulated

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated

Safe Drinking Water Act (SDWA)

Not regulated

US state regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (California Proposition 65)

Not regulated

Massachusetts Right-to-Know Act

Not regulated

New Jersey Worker and Community Right-to-Know Act

Chemical name	CAS number	
Sodium hydrosulfite	7775-14-6	
Sodium metabisulfite	7681-57-4	

Pennsylvania Worker and Community Right-to-Know Act

Chemical name	CAS number	
Sodium hydrosulfite	7775-14-6	
Sodium metabisulfite	7681-57-4	

Rhode Island Right-to-Know Act

Not regulated

SECTION 16: Other information

NFPA Rating

Health hazard 2
Fire hazard 1
Reactivity 2
Specific \text{\psi}

Disclaimer

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Issue date:

May 2015

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9/12/2023

Revision information:

This document embodies significant change(s) that may impact classification, safe handling, or health information for the associated product(s). The information contained herein should be reviewed in its entirety before handling material.

Supersedes revision dated October 2017.