

**Section 1. Identification****Product identifier****Product Identity**

Sodium Hydrosulfite Solution (CHE-3050S)

**Other means of identification**

SHS Solution (V-BRITE;VIRWITE;VIRTEX;K-BRITE).

**Relevant identified uses of the substance or mixture and uses advised against**

Reducing agent. For use in textile dyeing and kaolin clay industries

**Restrictions on use:**

Not available.

**Details of the supplier of the safety data sheet****Company Name**Chemtrade Logistics Inc. (Canada)  
155 Gordon Baker Road Suite 300  
Toronto, Ontario M2H 3N5  
(416) 496-5856Chemtrade Logistics Inc. (US)  
90 East Halsey Road, Suite 200  
Parsippany, NJ 07054  
(800) 228- 8558**Emergency****24 hour Emergency Telephone No.**Chemtrade Emergency Contact: (866) 416-4404 (US and Canada)  
CHEMTREC +1-800-424-9300  
For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident, call CHEMTREC – Day or Night**Customer Service:**For SDS Info: (416) 496-5856  
[www.chemtradelogistics.com](http://www.chemtradelogistics.com)**Section 2. Hazard(s) identification****Classification of the substance or mixture**

Acute toxicity(oral), category 4;H302 Harmful if swallowed.

**Label elements**

**Warning**

H302 Harmful if swallowed.

**[Prevention]:**

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

**[Response]:**

P301+312 IF SWALLOWED: Call a POISON CENTER, doctor or physician if you feel unwell.

P330 Rinse mouth.

**[Storage]:**

No GHS storage statements

**[Disposal]:**

P501 Dispose of contents or container in accordance with local and national regulations.

**Other hazards**

This product contains no PBT/vPvB/vPvM chemicals.

This product contains no endocrine disrupting chemicals.

Does NOT contain component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS) per the US EPA PFASMASTER combined list of PFAS chemicals.

**Section 3. Composition/information on ingredients**

This product contains the following substances that present a hazard within the meaning of the Hazardous Products Regulations.

| Ingredient/Chemical Designations                                                                             | Weight % | GHS Classification                                                               | Notes             |
|--------------------------------------------------------------------------------------------------------------|----------|----------------------------------------------------------------------------------|-------------------|
| Dithionous acid, disodium salt<br>CAS Number: 7775-14-6<br>Synonyms: SODIUM HYDROSULPHITE, Sodium dithionite | 10 - 30  | Self-heating substance, category 1;H251<br>Acute toxicity(oral), category 4;H302 | No data available |

The actual concentration or concentration range is withheld as a trade secret.

\*PBT/vPvB - PBT, vPvM or vPvB-substance.

The full texts of the phrases are shown in Section 16.

The specific chemical identity and/or exact percentage of composition are withheld as a trade secret within the meaning of the OSHA Hazard Communication Standard [29 CFR 1910.1200].

**Section 4. First aid measures****Description of first aid measures**

|                   |                                                                                                                                                                                                                                 |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General</b>    | In all cases of doubt, or when symptoms persist, seek medical attention.<br>Never give anything by mouth to an unconscious person.                                                                                              |
| <b>Inhalation</b> | Remove to fresh air, keep patient warm and at rest. If unconscious, place in the recovery position and obtain immediate medical attention. Give nothing by mouth.                                                               |
| <b>Eyes</b>       | Irrigate copiously with clean water for at least 30 minutes, holding the eyelids apart and seek medical attention. Remove contact lenses, if present and easy to do. Continue rinsing.                                          |
| <b>Skin</b>       | Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser. Drench affected area with water for at least 30 minutes. Obtain medical attention if irritation develops or persists. |
| <b>Ingestion</b>  | If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting. If swallowed, rinse mouth.                                                                                                               |

**Most important symptoms and effects, both acute and delayed****Overview**

**Acute Health Effects:** Harmful if swallowed.  
INGESTION: Harmful if swallowed (Immediate). This material is harmful orally and can cause adverse health effects or death in significant amounts.  
EYES: May cause eye irritation, redness, pain, and blurred vision.  
SKIN: Prolonged exposure may cause irritation. No chronic effects from skin contact are known.  
INHALATION: Prolonged exposure may cause irritation.

**Indication of Any Immediate Medical Attention and Special Treatment Needed:** If exposed or concerned, get medical advice and attention.  
See section 2 for further details.

|                        |                                                                                                                 |
|------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>Ingestion</b>       | Harmful if swallowed.                                                                                           |
| <b>Chronic effects</b> | Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed. Treat symptomatically. |

**Section 5. Fire-fighting measures****Extinguishing media**

**Suitable Extinguishing Media:** Water spray, dry chemical, foam, carbon dioxide.

**Unsuitable extinguishing media:** Do not use water jet, or heavy water stream. Use of heavy stream of water may spread fire.

**Special hazards arising from the substance or mixture**

Hazardous decomposition: On heating: release of toxic and corrosive gases/vapors sulphur oxides.

**Advice for fire-fighters**

As with all fires, wear positive pressure, self-contained breathing apparatus, (SCBA) with a full-face piece and protective clothing. Persons without respiratory protection should leave area. Wear SCBA during clean up immediately after fire. No smoking.

**Fire Hazard:** Not flammable but may burn at higher temperatures.

**Explosion Hazard:** Not explosive.

**Firefighting Instructions:** Do not enter fire area without proper protective equipment, including respiratory protection. Use water spray or fog for cooling exposed containers. Do not breathe fumes from fires or vapors from decomposition. **Exercise caution when fighting any chemical fire.**

**Hazardous Combustion Products:** Sulfur oxides. Irritating or toxic vapors.

**Other Information:** Do not allow run-off from firefighting to enter drains or water courses.

**ERG Guide No.** ----

**Section 6. Accidental release measures****Personal precautions, protective equipment and emergency procedures**

**General Measures:** Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid contact with eyes, skin and clothing. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. See Section 8.

Use only outdoors or in a well-ventilated area. Do not breathe mist, spray, and vapours.

Do not get in eyes, on skin, or on clothing. Use appropriate personal protection equipment (PPE). Wear protective gloves, eye protection, face protection (refer to section 8 for more details).

Use good personal hygiene practices. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Promptly remove soiled clothing and wash thoroughly before reuse.

**Environmental precautions**

Prevent entry to sewers and public waters. Avoid release to environment.

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

**Methods and material for containment and cleaning up**

Evacuate unnecessary personnel.

**Methods for Clean up:** Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

**Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions. Ventilate area. Equip cleanup crew with proper protection.

## Section 7. Handling and storage

### Precautions for safe handling

Handle containers carefully to prevent damage and spillage.

Do not eat, drink or smoke when using this product. Always wash your hands immediately after handling this product and once again before leaving the workplace.

See section 2 for further details. - [Prevention]:

### Conditions for safe storage, including any incompatibilities

Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Store away from other materials.

Store at 2 -7 C (35 - 45 F) under nitrogen.

**Incompatible materials:** Strong oxidizers, strong acids, peroxides. Solution is a reducing product and will react with oxidizers. Sulfur dioxide may be given off during decomposition and/or contact with acidic materials.

Handle in accordance with good industrial hygiene and safety procedures.

See section 2 for further details. - [Storage]:

### Specific end use(s)

Reducing agent. For use in textile dyeing and kaolin clay industries

### Restrictions on use:

Not available.

## Section 8. Exposure controls / personal protection

### Control parameters

#### Exposure Limits

| CAS No.   | Ingredient                     | Source                    | Value                |
|-----------|--------------------------------|---------------------------|----------------------|
| 7775-14-6 | Dithionous acid, disodium salt | ACGIH                     | No Established Limit |
|           |                                | OSHA                      | No Established Limit |
|           |                                | NIOSH                     | No Established Limit |
|           |                                | Alberta                   | No Established Limit |
|           |                                | British Columbia          | No Established Limit |
|           |                                | Manitoba                  | No Established Limit |
|           |                                | New Brunswick             | No Established Limit |
|           |                                | Newfoundland and Labrador | No Established Limit |
|           |                                | Nova Scotia               | No Established Limit |
|           |                                | Northwest Territories     | No Established Limit |
|           |                                | Nunavut                   | No Established Limit |
|           |                                | Ontario                   | No Established Limit |
|           |                                | Prince Edward Island      | No Established Limit |
|           |                                | Quebec                    | No Established Limit |

|  |  |              |                      |
|--|--|--------------|----------------------|
|  |  | Saskatchewan | No Established Limit |
|  |  | Yukon        | No Established Limit |

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Promptly remove soiled clothing/wash thoroughly before reuse. Shower after work using plenty of soap and water.

### Exposure controls

**Respiratory** If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

**Eyes** Chemical safety goggles or safety glasses.

**Skin** Wear chemically resistant protective gloves. Avoid skin contact. Wear protective gloves. Wear suitable protective clothing.

**Materials for Protective Clothing:** Chemically resistant materials and fabrics.

**Engineering Controls** **Exposure Controls Appropriate Engineering Controls:** Emergency eyewash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

**Other Work Practices** Use appropriate personal protection equipment (PPE) Wear appropriate personal protective equipment. Chemically compatible gloves, protective clothing, and chemical-resistant safety goggles or safety glasses. Use only outdoors or in a well-ventilated area. Do not breathe mist, spray, and vapours.

Do not get in eyes, on skin, or on clothing. Use appropriate personal protection equipment (PPE). Wear protective gloves, eye protection, face protection (refer to section 8 for more details).

Use good personal hygiene practices. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details.

## Section 9. Physical and chemical properties

### Information on basic physical and chemical properties

**Physical State** clear liquid

**Color** Clear Liquid

**Odor** Slightly Pungent

|                                                           |                                                                                                    |
|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| <b>Odor threshold</b>                                     | No available information                                                                           |
| <b>Melting point / freezing point</b>                     | < 0 °C (32 °F)                                                                                     |
| <b>Initial boiling point and boiling range</b>            | > 100 °C (>212 °F) (212.00 °F)                                                                     |
| <b>Flammability (solid, gas)</b>                          | Not Applicable                                                                                     |
| <b>Upper/lower flammability or explosive limits</b>       | Lower Explosive Limit: No available information<br>Upper Explosive Limit: No available information |
| <b>Flash Point</b>                                        | No available information                                                                           |
| <b>Auto-ignition temperature</b>                          | No available information                                                                           |
| <b>Decomposition temperature</b>                          | No available information                                                                           |
| <b>pH</b>                                                 | 10 - 13.5                                                                                          |
| <b>Viscosity (cSt)</b>                                    | No available information                                                                           |
| <b>Solubility in Water</b>                                | Completely Soluble in water.                                                                       |
| <b>Partition coefficient n-octanol/water (Log Kow)</b>    | < -2.75 - -4.7 Log Pow (estimated) – for sodium hydrosulfite                                       |
| <b>Vapour pressure (Pa)</b>                               | No available information                                                                           |
| <b>Relative Density</b>                                   | No available information                                                                           |
| <b>Vapour Density</b>                                     | No available information                                                                           |
| <b>Evaporation rate (Ether = 1)</b>                       | No available information                                                                           |
| <b>Specific Gravity</b>                                   | 1.12 - 1.18                                                                                        |
| <b>Partitioning Coefficient n-octanol/water (log Pow)</b> | < -2.75 - -4.7 Log Pow (estimated) – for sodium hydrosulfite                                       |
| <b>Other information</b>                                  | No other relevant information.                                                                     |

## Section 10. Stability and reactivity

### Reactivity

On heating: release of toxic and corrosive gases/vapors sulphur oxides.

### Chemical stability

Stable under recommended handling and storage conditions (see section 7).

### Possibility of hazardous reactions

Hazardous Polymerization will not occur.

### Conditions to avoid

Extremely high or low temperatures, ignition sources, combustible materials, incompatible materials.

### Incompatible materials

Strong oxidizers, strong acids, peroxides. Solution is a reducing product and will react with oxidizers. Sulfur dioxide may be given off during decomposition and/or contact with acidic materials.

### Hazardous decomposition products

On heating: release of toxic and corrosive gases/vapors sulphur oxides.

### Section 11. Toxicological information

#### Acute toxicity

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

|                                  | Oral LD50,<br>mg/kg | Skin LD50,<br>mg/kg | Inhalation<br>Vapor LC50,<br>mg/L/4hr | Inhalation<br>Dust/Mist LC50,<br>mg/L/4hr | Inhalation<br>Gas LC50,<br>ppm |
|----------------------------------|---------------------|---------------------|---------------------------------------|-------------------------------------------|--------------------------------|
| Product Acute Toxicity Estimates | 2,000               | NA                  | NA                                    | NA                                        | NA                             |

| Ingredient                                   | Oral LD50,<br>mg/kg | Skin LD50,<br>mg/kg | Inhalation<br>Vapor LC50,<br>mg/L/4hr | Inhalation<br>Dust/Mist LC50,<br>mg/L/4hr | Inhalation<br>Gas LC50,<br>ppm |
|----------------------------------------------|---------------------|---------------------|---------------------------------------|-------------------------------------------|--------------------------------|
| Dithionous acid, disodium salt - (7775-14-6) | No data available.  | No data available.  | No data available.                    | No data available.                        | No data available.             |

#### Carcinogen Data

| CAS No.   | Ingredient                     | Source | Value                |
|-----------|--------------------------------|--------|----------------------|
| 7775-14-6 | Dithionous acid, disodium salt | IARC   | No                   |
|           |                                | ACGIH  | No Established Limit |

| Classification                | Category | Hazard Description    |
|-------------------------------|----------|-----------------------|
| Acute toxicity (oral)         | 4        | Harmful if swallowed. |
| Acute toxicity (dermal)       | ---      | Not Applicable        |
| Acute toxicity (inhalation)   | ---      | Not Applicable        |
| Skin corrosion/irritation     | ---      | Not Applicable        |
| Serious eye damage/irritation | ---      | Not Applicable        |
| Respiratory sensitization     | ---      | Not Applicable        |
| Skin sensitization            | ---      | Not Applicable        |
| Germ cell mutagenicity        | ---      | Not Applicable        |
| Carcinogenicity               | ---      | Not Applicable        |
| Reproductive toxicity         | ---      | Not Applicable        |
| STOT-single exposure          | ---      | Not Applicable        |
| STOT-repeated exposure        | ---      | Not Applicable        |
| Aspiration hazard             | ---      | Not Applicable        |

**Possible routes of entry:**

Inhalation, ingestion, skin contact, and skin absorption.

**Symptoms and effects, both acute and delayed:**

**Acute Health Effects:** Harmful if swallowed.

INGESTION: Harmful if swallowed (Immediate). This material is harmful orally and can cause adverse health effects or death in significant amounts.

EYES: May cause eye irritation, redness, pain, and blurred vision.

SKIN: Prolonged exposure may cause irritation. No chronic effects from skin contact are known.

INHALATION: Prolonged exposure may cause irritation.

**Indication of Any Immediate Medical Attention and Special Treatment Needed:** If exposed or concerned, get medical advice and attention.

**Ingestion** Harmful if swallowed.

**Chronic effects** Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed. Treat symptomatically.

**Section 12. Ecological information****Toxicity**

No additional information provided for this product. See Section 3 for chemical specific data.

**Aquatic Ecotoxicity**

| Ingredient                                   | 96 hr LC50 fish,<br>mg/l | 48 hr EC50 crustacea,<br>mg/l | ErC50 algae,<br>mg/l |
|----------------------------------------------|--------------------------|-------------------------------|----------------------|
| Dithionous acid, disodium salt - (7775-14-6) | No data available.       | No data available.            | No data available.   |

**Persistence and degradability**

There is no data available on the preparation itself.

**Bioaccumulative potential**

No available information

**Mobility in soil**

No available information

**Results of PBT and vPvB assessment**

This product contains no PBT/vPvB/vPvM chemicals.

**Other adverse effects**

No available information

### Section 13. Disposal considerations

#### Waste treatment methods

Dispose of waste material in accordance with all local, regional, federal, provincial, state, territorial and international regulations.

Prevent entry to sewers and public waters. Avoid release to environment.

**Additional Information:** Container may remain hazardous when empty. Continue to observe all precautions.

### Section 14. Transport information

Classification Method: Classified as per Part 2, Sections 2.1-2.8 of the Transportation of Dangerous Goods Regulations.

#### DOT (Domestic Surface Transportation)

|                                   |                |
|-----------------------------------|----------------|
| <b>UN number</b>                  | Not Regulated  |
| <b>UN proper shipping name</b>    | Not Regulated  |
| <b>Transport hazard class(es)</b> | Not Applicable |
| <b>Sub Class</b>                  | Not Applicable |
| <b>Packing group</b>              | Not Applicable |

#### TDG (Domestic Surface Transportation)

|                                   |                |
|-----------------------------------|----------------|
| <b>UN number</b>                  | Not Regulated  |
| <b>UN proper shipping name</b>    | Not Regulated  |
| <b>Transport hazard class(es)</b> | Not Applicable |
| <b>Sub Class</b>                  | Not Applicable |
| <b>Packing group</b>              | Not Applicable |

#### IMO / IMDG (Ocean Transportation)

|                                   |                |
|-----------------------------------|----------------|
| <b>UN number</b>                  | Not Regulated  |
| <b>UN proper shipping name</b>    | Not Regulated  |
| <b>Transport hazard class(es)</b> | Not Applicable |
| <b>Sub Class</b>                  | Not Applicable |
| <b>Packing group</b>              | Not Applicable |

#### ICAO/IATA

|                                |               |
|--------------------------------|---------------|
| <b>UN number</b>               | Not Regulated |
| <b>UN proper shipping name</b> | Not Regulated |

|                                   |                |
|-----------------------------------|----------------|
| <b>Transport hazard class(es)</b> | Not Applicable |
| <b>Sub Class</b>                  | Not Applicable |
| <b>Packing group</b>              | Not Applicable |

**Environmental hazards**

IMDG Marine Pollutant: No;

**Special precautions for user**

No available information

**Section 15. Regulatory information**

**Regulatory Overview** The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

**Toxic Substance Control Act (TSCA)** All components of this material are either listed or exempt from listing on the TSCA Inventory.

**NFPA Ranking**

Health (blue) :1

Fire (red) :0

Reactivity (yellow) :0

Special (white) :--


**Toxic Substance Control Act (TSCA)**

Dithionous acid, disodium salt

Water

**CERCLA Chemicals and RQs:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**EPCRA 302 Extremely Hazardous:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**EPCRA 313 Toxic Chemicals:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Canadian Domestic Substance List (DSL):**

Dithionous acid, disodium salt

Water

**Canadian Non-Domestic Substance List (NDSL):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.



**New Jersey RTK Substances (>1%):**

Dithionous acid, disodium salt

**Pennsylvania RTK Substances (>1%):**

Dithionous acid, disodium salt

**Proposition 65 - Carcinogens (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Developmental Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Female Repro Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Male Repro Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 Label Warning:**

This product contains no chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

| Chemical Name (CAS Number)                 | US TSCA | Australia AICS | Korea ECL | EU EINECS | EU ELINCS | EU SVHC | EN NLP | Mexico INSQ |
|--------------------------------------------|---------|----------------|-----------|-----------|-----------|---------|--------|-------------|
| Dithionous acid, disodium salt (7775-14-6) | Yes     | Yes            | No        | No        | No        | No      | No     | No          |

| Chemical Name (CAS Number)                 | China IECSC | Japan ENCS | Japan ISHL | Japan PDSC | Japan PRTR 1 | Japan PRTR 2 | Philippines PICCS | New Zealand NZIOC |
|--------------------------------------------|-------------|------------|------------|------------|--------------|--------------|-------------------|-------------------|
| Dithionous acid, disodium salt (7775-14-6) | No          | No         | No         | No         | No           | No           | No                | No                |

**Section 16. Other information**

**Revision Date** 11/04/2025

**Revision Number** 4

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products.

Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H251 Self-heating; may catch fire.

H302 Harmful if swallowed.

Disclaimer: The information presented herein is supplied as a guide to those who handle or use this product. Safe work practices must be employed when working with any materials. It is important that the end user makes a determination regarding the adequacy of the safety procedures employed during the use of this product.

End of Document