

## Section 1 Chemical Product and Company Identification

Page E1 of E2

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Not for drug, food or household use

Product: DIPHENYLAMINE OXIDATION-REDUCTION INDICATOR SOLUTION

Synonyms: Diphenylamine-Sulfuric Acid Solution

## Section 2 Hazards Identification

Signal word: DANGER

Pictograms: GHS05 / GHS06 / GHS08

Target organs: Respiratory system, skin, eyes, teeth.



## GHS Classification:

Corrosive to metals (Category 1)

Skin corrosion (Category 1A)

Eye damage (Category 1)

Acute toxicity, inhalation (Category 2)

Carcinogenicity (Category 1A)

## GHS Label information Hazard statement(s):

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H330 Fatal if inhaled.

H350 May cause cancer.

## Precautionary statement(s):

P234 Keep only in original container.

P260 Do not breathe mist/vapours/spray

P264 Wash hands thoroughly after handling

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection

P284 Wear respiratory protection

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P363 Wash contaminated clothing before reuse

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P310 Immediately call a POISON CENTER or doctor.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes

Remove contact lenses, if present and easy to do. Continue rinsing.

P390 Absorb spillage to prevent material damage.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P406 Store in corrosive resistant container with a resistant inner liner.

P501 Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.

## Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known

Physical hazards not otherwise classified (PHNOC) - Not Known

## Section 3 Composition / Information on Ingredients

Chemical Name	CAS #	%	EINECS
Sulfuric acid	7664-93-9	99.25%	231-639-5
Diphenylamine	122-39-4	0.75%	204-539-4

## Section 4 First Aid Measures

**INGESTION:** Harmful or fatal if swallowed. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

**INHALATION:** Harmful or fatal if inhaled. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**EYE CONTACT:** Causes severe burns. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

**SKIN ABSORPTION:** Causes severe burns. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

## Section 5 Fire Fighting Measures

**Suitable Extinguishing Media:** Product is a water reactive material. DO NOT USE WATER! Use dry chemicals only for extinguishing.

**Protective Actions for Fire-fighters:** In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

**Specific Hazards:** During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water on combustibles burning in vicinity of acid but use care as water applied to the acid results in severe generation of heat and may cause boiling and splattering. Sulfuric acid will not burn, but is capable of igniting finely divided combustible materials on contact. May react violently with organic materials and water with the evolution of heat. Contact with reactive metals, e.g. aluminum, may result in the generation of flammable hydrogen gas.

## Section 6 Accidental Release Measures

**Personal Precautions:** Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

**Environmental Precautions:** Avoid runoff into storm sewers and ditches which lead to waterways.

**Containment and Cleanup:** Remove all sources of ignition. Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

## Section 7 Handling &amp; Storage

Page E2 of E2

**Precautions for Safe Handling:** Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

**Conditions for Safe Storage:** Store in a cool, dry, well-ventilated area away from incompatible substances. Hygroscopic material. Never add water to this solution, always add acid, slowly and in small amounts to water to avoid splattering.

## Section 8 Exposure Controls / Personal Protection

Exposure Limits:	Chemical Name Sulfuric acid	ACGIH (TLV) TWA: 0.2 mg/m <sup>3</sup> (A2)	OSHA (PEL) TWA: 1 mg/m <sup>3</sup>	NIOSH (REL) TWA: 1 mg/m <sup>3</sup>
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**Engineering controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

**Respiratory protection:** Use a chemical fume hood and/or wear a NIOSH/MSHA-approved respirator.

## Section 9 Physical &amp; Chemical Properties

<b>Appearance:</b> Clear, oily liquid.	<b>Evaporation rate</b> ( = 1):	Data not available	<b>Partition coefficient:</b>	Data not available
<b>Odor:</b> Slightly pungent odor.	<b>Flammability (solid/gas):</b>	Data not available	<b>Auto-ignition temperature:</b>	Data not available
<b>Odor threshold:</b> Data not available.	<b>Explosion limits: Upper/Lower:</b>	Data not available	<b>Decomposition temperature:</b>	Data not available
<b>pH:</b> Data not available.	<b>Vapor pressure (mm Hg):</b>	Variable*	<b>Viscosity:</b>	Data not available
<b>Melting / Freezing point:</b> <11°C (52°F)	<b>Vapor density (Air = 1):</b>	Data not available	<b>Molecular formula:</b>	Mixture
<b>Boiling point:</b> Approximately 275-325°C (527-617°F)	<b>Relative density (Specific gravity):</b>	1.16 - 1.84*	<b>Molecular weight:</b>	Mixture
<b>Flash point:</b> Not flammable.	<b>Solubility(ies):</b>	Complete in water.		*Sulfuric acid

## Section 10 Stability &amp; Reactivity

**Chemical stability:** Stable

**Hazardous polymerization:** Will not occur.

**Conditions to avoid:** Avoid contact with water and heat. Avoid temperatures above 250°C (482°F)

**Incompatible materials:** Alkalies, amines, anhydrides, combustibles, organics, oxidizers, powdered metals.

**Hazardous decomposition products:** Sulfur trioxide and/or sulfur dioxide. Hydrogen gas by reaction with metals.

## Section 11 Toxicological Information

**Acute toxicity:** Oral-rat LD50: 2140 mg/kg; Inhalation-rat LC50: 510 mg/m<sup>3</sup>/2 hours [Sulfuric acid]; Oral-rat LD50: 1165 mg/kg [Diphenylamine]

**Skin corrosion/irritation:** Skin-rabbit - causes burns [Sulfuric acid]

**Serious eye damage/irritation:** Eyes-rabbit - causes burns [Sulfuric acid]

**Respiratory or skin sensitization:** Data not available

**Germ cell mutagenicity:** Data not available

**Carcinogenicity:** Data not available

**NTP:** This product contains a chemical known to be a human carcinogen. [Sulfuric acid]

**IARC classified:** Group 1: Carcinogenic to humans. [Acid mists, strong inorganic] [Sulfuric acid]

**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**CA Prop 65:** ⚠️ **WARNING!** This product can expose you to a chemical, Strong inorganic acid mists containing sulfuric acid, which is known to the State of California to cause cancer.

**Reproductive toxicity:** Data not available

**STOT-single exposure:** Data not available

**STOT-repeated exposure:** Data not available

**Aspiration hazard:** Data not available

**Potential health effects:**

**Inhalation:** Inhalation of this material is irritating and/or corrosive to the nose, throat and lungs. It may also cause burns to the respiratory tract with the production of lung edema which can result in shortness of breath, wheezing, choking, chest pain and impairment of lung function. Inhalation of high concentrations may result in permanent lung damage. Repeated inhalation may cause bronchitis, and also etching of dental enamel followed by the erosion of the enamel and dentine with loss of tooth substance.

**Ingestion:** Ingestion may cause irritation and/or burns to the entire gastrointestinal tract, including the stomach and intestines, characterized by nausea, vomiting, diarrhea, abdominal pain, bleeding and/or tissue ulceration.

**Skin:** Skin contact can cause severe irritation and/or burns characterized by redness, swelling and scab formation.

**Eyes:** Severe irritation and/or burns can occur following eye exposure. Contact may cause impairment of vision and corneal damage.

**Signs and symptoms of exposure:** Burning sensation, cough, wheezing, laryngitis, shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.

**Additional information:** RTECS #: WS5600000 [Sulfuric acid]

## Section 12 Ecological Information

**Toxicity to fish:** LC50 - Gambusia affinis (Mosquito fish) - 42 mg/l - 96 h [Sulfuric acid]

**Toxicity to daphnia and other aquatic invertebrates:** Crangon crangon (crustacea) 70-80 mg/l/48 hours [Sulfuric acid]

**Toxicity to algae:** No data available

**Persistence and degradability:** No data available

**Bioaccumulative potential:** No data available

**Mobility in soil:** No data available

**PBT and vPvB assessment:** No data available

**Other adverse effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

## Section 13 Disposal Considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

## Section 14 Transport Information (US DOT / CANADA TDG)

**UN/NA number:** UN1830

**Shipping name:** Sulfuric acid solution

**Hazard class:** 8

**Packing group:** II

**Reportable Quantity:** 1,000 lbs (454 kg)

**Marine pollutant:** No

**Exceptions:** Limited quantity equal to or less than 1 L

**2016 ERG Guide #** 137

## Section 15 Regulatory Information

A chemical is considered to be listed if the CAS number for the anhydrous form is on the inventory list.

Component	TSCA	CERCLA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Sulfuric acid	Listed	1,000 lbs (454 kg)	D002	Listed	Not listed	⚠️ <b>WARNING -Cancer and Reproductive Harm</b> www.P65Warnings.ca.gov

## Section 16 Other Information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program; IARC: International Agency for Research on Cancer; OSHA: Occupational Safety and Health Administration; STOT: Specific Target Organ Toxicity; SE: Single Exposure; RE: Repeated Exposure; ERG: Emergency Response Guidebook.

Form 06/2015

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## Section 1 Chemical Product and Company Identification

Page E1 of E2

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Aven, NY 14414-8409  
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Product LEAD NITRATE, 0.05 MOLAR SOLUTION

Synonyms Lead Dintrate, Aqueous Solution

## Section 2 Hazards Identification

Signal word: DANGER

Pictograms: GHS06 / GHS09

Target organs: Blood, Central nervous system



## GHS Classification:

Acute toxicity, Oral (Category 5)  
Eye irritation (Category 2B)  
Acute toxicity, Inhalation (Category 5)  
Reproductive toxicity (Category 1A)  
STOT-RE (Category 2)  
Acute aquatic toxicity (Category 1)  
Chronic aquatic toxicity (Category 1)

## GHS Label information Hazard statement(s):

H303 + H333: May be harmful if swallowed or if inhaled  
H320: Causes eye irritation  
H360: May damage fertility or the unborn child  
H373: May cause damage to organs through prolonged or repeated exposure  
H410: Very toxic to aquatic life with long lasting effects.

## Hazards not otherwise classified:

Health hazards not otherwise classified (HNOC) - Not Known  
Physical hazards not otherwise classified (PHNOC) - Not Known

## Section 3 Composition / Information on ingredients

Chemical Name	CAS #	%	EINECS
Water	7732-18-5	98.34%	231-791-2
Lead nitrate	10099-74-8	1.66%	233-245-9

## Section 4 First Aid Measures

**INGESTION:** MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

**INHALATION:** MAY BE HARMFUL IF INHALED. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**EYE CONTACT:** CAUSES EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

**SKIN ABSORPTION:** MAY BE HARMFUL IF ABSORBED THROUGH SKIN. MAY CAUSE SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

## Section 5 Fire Fighting Measures

**Suitable Extinguishing Media:** Carbon dioxide, dry chemical, dry sand, alcohol foam. Use any media suitable for extinguishing supporting fire.

**Protective Actions for Fire-fighters:** In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

**Specific Hazards:** During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

## Section 6 Accidental Release Measures

**Personal Precautions:** Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

**Environmental Precautions:** Avoid runoff into storm sewers and ditches which lead to waterways.

**Containment and Cleanup:** Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

## Precautionary statement(s):

P201. Obtain special instructions before use  
P202. Do not handle until all safety precautions have been read and understood  
P260. Do not breathe mist/vapours/spray  
P264. Wash hands thoroughly after handling  
P270. Do not eat, drink or smoke when using this product.  
P271. Use only outdoors or in a well-ventilated area  
P273. Avoid release to the environment  
P280. Wear protective gloves/protective clothing/eye protection/face protection  
P301+P330+P331. IF SWALLOWED. Rinse mouth. Call a POISON CENTER or doctor if you feel unwell.  
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.  
P304+P340. IF INHALED. Remove person to fresh air and keep comfortable for breathing.  
P308+P313. IF exposed or concerned. Get medical attention.  
P405. Store locked up.  
P501. Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.

## Section 7 Handling &amp; Storage

Page E2 of E2

**Precautions for Safe Handling:** Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

**Conditions for Safe Storage:** Store in a cool, well-ventilated area away from incompatible substances.

## Section 8 Exposure Controls / Personal Protection

Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
	Lead & inorganic compounds, as Pb	TWA: 0.05 mg/m <sup>3</sup> (A3)	TWA: 0.05 mg/m <sup>3</sup>	TWA: 0.05 mg/m <sup>3</sup>

**Engineering controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

**Respiratory protection:** None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

## Section 9 Physical &amp; Chemical Properties

<b>Appearance:</b> Clear, colorless liquid.	<b>Evaporation rate (Water = 1):</b> <1	<b>Partition coefficient:</b> Data not available
<b>Odor:</b> Mild characteristic odor.	<b>Flammability (solid/gas):</b> Data not available	<b>Auto-ignition temperature:</b> Data not available
<b>Odor threshold:</b> Data not available.	<b>Explosion limits: Lower / Upper:</b> Data not available	<b>Decomposition temperature:</b> Data not available.
<b>pH:</b> Data not available.	<b>Vapor pressure (mm Hg):</b> 14 (water)	<b>Viscosity:</b> Data not available
<b>Melting / Freezing point:</b> Approximately 0°C (32°F) (water)	<b>Vapor density (Air = 1):</b> 0.7 (water)	<b>Molecular formula:</b> Mixture
<b>Boiling point:</b> Approximately 100°C (212°F) (water)	<b>Relative density (Specific gravity):</b> Approximately 1.0 (water)	<b>Molecular weight:</b> Mixture
<b>Flash point:</b> Data not available	<b>Solubility(ies):</b> Complete in water	

## Section 10 Stability &amp; Reactivity

**Chemical stability:** Stable

**Conditions to avoid:** Excessive temperatures which cause evaporation.

**Incompatible materials:** Ammonium thiocyanate, powdered carbon, lead hypophosphite.

**Hazardous decomposition products:** Lead oxides and nitrogen oxides.

## Section 11 Toxicological Information

**Acute toxicity:** Data not available

**Skin corrosion/irritation:** Data not available

**Serious eye damage/irritation:** Data not available

**Respiratory or skin sensitization:** Data not available

**Germ cell mutagenicity:** Data not available

**Carcinogenicity:** Data not available

**NTP (R) Reasonably anticipated to be a human carcinogen:** [Lead nitrate]

**IARC classified:** Group 2A. Probably carcinogenic to humans. [Lead nitrate]

**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**CA Prop 65:** Δ WARNING: This product can expose you to chemicals including Lead and lead compounds, which are known to the State of California to cause cancer and birth defects or other reproductive harm.

**Reproductive toxicity:** Data not available

**STOT-single exposure:** The substance or mixture is classified as specific target organ toxicant, single exposure, category 2 with respiratory effects. [Lead nitrate]

**STOT-repeated exposure:** Data not available

**Aspiration hazard:** Data not available

**Potential health effects:**

**Inhalation:** Harmful if inhaled.

**Ingestion:** Harmful if swallowed.

**Skin:** Harmful if absorbed through skin. Causes skin irritation.

**Eyes:** Causes eye irritation.

**Signs and symptoms of exposure:** Lead is a cumulative poison and exposure to even small amounts can raise the body's content to toxic levels. Nitrates entering the body by any route can cause headache, vomiting, dizziness, cyanosis, decreased blood pressure and possible respiratory paralysis. Acute poisoning can lead to muscle weakness.

**CA Prop 65:** Δ WARNING: This product can expose you to chemicals including Lead and lead compounds, which are known to the State of California to cause cancer and birth defects or other reproductive harm.

**Additional information:** RTECS #: OG2100000 [Lead nitrate]

## Section 12 Ecological Information

**Toxicity to fish:** LC50 - *Oncorhynchus mykiss* (rainbow trout) - 1.5 mg/l - 96.0 h [Lead nitrate]

**Toxicity to daphnia and other aquatic invertebrates:** EC50 - *Daphnia magna* (Water flea) - 0.5 - 2.0 mg/l - 48 h [Lead nitrate]

**Toxicity to algae:** No data available

**Persistence and degradability:** No data available

**Bioaccumulative potential:** No data available

**PBT and vPvB assessment:** No data available

**Other adverse effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

## Section 13 Disposal Considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

## Section 14 Transport Information (US DOT / CANADA TDG)

**UN/NA number:** Not applicable

**Shipping name:** Not Regulated

**Hazard class:** Not applicable

**Packing group:** Not applicable

**Reportable Quantity:** 10 lbs (4.54 kg)

**Marine pollutant:** Yes

**Exceptions:** Not applicable

**2016 ERG Guide #:** Not applicable

## Section 15 Regulatory Information

A chemical is considered to be listed if the CAS number for the anhydrous form is on the inventory list:

Component	TSCA	CERCLA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Lead nitrate	Listed	Listed	Not listed	Listed	Not listed	Δ WARNING -Cancer and Reproductive Harm www.P65Warnings.ca.gov

## Section 16 Other Information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.

Form 06/2015

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## Section 1 Chemical Product and Company Identification

Page E1 of E2

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CHEMTREC 24 Hour Emergency USA  
Phone Number (800) 424-9300  
For laboratory and industrial use only  
Not for drug, food or household use

Product	SODIUM RHODIZONATE, DIBASIC
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Synonyms	Rhodzonic Acid, Disodium Salt
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## Section 2 Hazards Identification

Signal word: WARNING  
Pictograms: None required  
Target organs: None known

GHS Classification:  
Acute tox. (Category 5)  
Acute tox. (Category 5)  
Skin irrit. (Category 3)  
Eye irrit. (Category 2B)

GHS Label information Hazard statement(s):  
H303. May be harmful if swallowed.  
H316. Causes mild skin irritation.  
H320. Causes eye irritation.  
H333. May be harmful if inhaled.

## Precautionary statement(s):

P264. Wash hands thoroughly after handling.  
P304+P312. IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P305+P351+P338. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P332+P313. If skin irritation occurs: Get medical advice/attention.  
P337+P313. If eye irritation persists: Get medical advice/attention.  
P403+P233. Store in a well-ventilated place. Keep container tightly closed.  
P501. Dispose of contents/container to a licensed chemical disposal agency in accordance with all local, state and federal regulations.

## Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known  
Physical hazards not otherwise classified (PHNOC) - Not Known

## Section 3 Composition / Information on Ingredients

Chemical Name	CAS #	%	EINECS
Sodium rhodizonate	523-21-7	100%	208-340-3

## Section 4 First Aid Measures

**INGESTION:** MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

**INHALATION:** MAY BE HARMFUL IF INHALED. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**EYE CONTACT:** MAY CAUSE EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

**SKIN ABSORPTION:** MAY CAUSE SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

## Section 5 Fire Fighting Measures

**Suitable Extinguishing Media:** Use any media suitable for extinguishing supporting fire.

**Protective Actions for Fire-fighters:** In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

**Specific Hazards:** During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

## Section 6 Accidental Release Measures

**Personal Precautions:** Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

**Environmental Precautions:** Avoid runoff into storm sewers and ditches which lead to waterways.

**Containment and Cleanup:** Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

## Section 7 Handling &amp; Storage

Page E2 of E2

**Precautions for Safe Handling:** Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

**Conditions for Safe Storage:** Store in a cool, dry, well-ventilated area away from incompatible substances.

## Section 8 Exposure Controls / Personal Protection

Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
	Particulates not otherwise classified	None established	TWA 5 mg/m <sup>3</sup> Respirable fraction	None established

**Engineering controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

**Respiratory protection:** None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

## Section 9 Physical &amp; Chemical Properties

<b>Appearance:</b> Solid. Gray powder.	<b>Evaporation rate</b> ( = 1): Data not available.	<b>Partition coefficient:</b> Data not available.
<b>Odor:</b> No odor.	<b>Flammability (solid/gas):</b> Data not available.	<b>Auto-ignition temperature:</b> Data not available.
<b>Odor threshold:</b> Data not available.	<b>Explosion limits: Lower / Upper:</b> Data not available.	<b>Decomposition temperature:</b> Data not available.
<b>pH:</b> Data not available.	<b>Vapor pressure (mm Hg):</b> Data not available.	<b>Viscosity:</b> Data not available.
<b>Melting / Freezing point:</b> 300°C (572°F)	<b>Vapor density (Air = 1):</b> Data not available.	<b>Molecular formula:</b> C <sub>6</sub> Na <sub>2</sub> O <sub>6</sub>
<b>Boiling point:</b> Data not available.	<b>Relative density (Specific gravity):</b> Data not available.	<b>Molecular weight:</b> 214.04
<b>Flash point:</b> Data not available.	<b>Solubility(ies):</b> Soluble in water.	

## Section 10 Stability &amp; Reactivity

**Chemical stability:** Stable

**Hazardous polymerization:** Will not occur.

**Conditions to avoid:** Excessive temperatures

**Incompatible materials:** Strong oxidizers

**Hazardous decomposition products:** Carbon oxides

## Section 11 Toxicological Information

**Acute toxicity:** Data not available

**Skin corrosion/irritation:** Data not available

**Serious eye damage/irritation:** Data not available

**Respiratory or skin sensitization:** Data not available

**Germ cell mutagenicity:** Data not available

**Carcinogenicity:** Data not available

**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity:** Data not available

**STOT-single exposure:** Data not available

**STOT-repeated exposure:** Data not available

**Aspiration hazard:** Data not available

**Potential health effects:**

Inhalation: May be harmful if inhaled.

Ingestion: May be harmful if ingested.

Skin: Contact may cause irritation.

Eyes: Contact may cause irritation.

**Signs and symptoms of exposure:** To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data is not available. Exercise appropriate procedures to minimize potential hazards.

**Additional information:** RTECS #: No data

## Section 12 Ecological Information

**Toxicity to fish:** No data available

**Toxicity to daphnia and other aquatic invertebrates:** No data available

**Toxicity to algae:** No data available

**Persistence and degradability:** No data available

**Bioaccumulative potential:** No data available

**Mobility in soil:** No data available

**PBT and vPvB assessment:** No data available

**Other adverse effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

## Section 13 Disposal Considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

## Section 14 Transport Information (US DOT / CANADA TDG)

**UN/NA number:** Not applicable

**Shipping name:** Not Regulated

**Hazard class:** Not applicable

**Packing group:** Not applicable

**Reportable Quantity:** No

**Marine pollutant:** No

**Exceptions:** Not applicable

**2016 ERG Guide #:** Not applicable

## Section 15 Regulatory Information

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

Component	TSCA	CERCLA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Sodium rhodizonate	Not listed	Not listed	Not listed	Listed	Not listed	This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

## Section 16 Other Information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program; IARC: International Agency for Research on Cancer; OSHA: Occupational Safety and Health Administration; STOT: Specific Target Organ Toxicity; SE: Single Exposure; RE: Repeated Exposure; ERG: Emergency Response Guidebook.

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