

**Turbo-Hib O<sub>2</sub>**

Issuing Date 03-Aug-2017

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Revision Number 1

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

**Product identifier**

Product Name Turbo-Hib O<sub>2</sub>

**Other means of identification**

Product Code(s) 2126

UN-No. UN2693

Synonyms None

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

Recommended Use For industrial use only

Uses advised against No information available

**Details of the supplier of the safety data sheet**

Supplier Name Turbo-Chem International, INC.

Supplier Address 106 West Saul  
Scott  
LA  
70583  
US

Supplier Phone Number Phone:(337) 235-3098

Supplier Email info@turbochem.com

**Emergency telephone number**

Chemical Emergency Phone Number CHEMTREC: +1-703-527-3887 (INTERNATIONAL)  
1-800-424-9300 (NORTH AMERICA)

Company Emergency Phone Number (936) 231-2538

## 2. HAZARDS IDENTIFICATION


### Classification

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

Corrosive to Metals	Category 1
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### GHS Label elements, including precautionary statements

#### Emergency Overview

<b>Signal word</b>	<b>Warning</b>
May be corrosive to metals	
	
<b>Appearance</b> Colorless to pale yellow	<b>Physical state</b> Liquid
	<b>Odor</b> Pungent

#### **Precautionary Statements - Prevention**

Keep only in original container

#### **Precautionary Statements - Response**

#### **Spill**

Absorb spillage to prevent material damage

#### **Precautionary Statements - Storage**

Store in corrosive resistant/ .? container with a resistant inner liner

#### **Precautionary Statements - Disposal**

None

#### **Hazards not otherwise classified (HNOC)**

Not applicable

#### **Unknown Toxicity**

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

#### **Other information**

May cause slight eye irritation

#### **Interactions with Other Chemicals**

No information available.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Weight-%
Sodium bisulfite.	7631-90-5	10 - 30
Anhydrous sodium sulfite	7757-83-7	1 - 5
Sodium sulphate	7757-82-6	<0.1

\*The exact percentage (concentration) of composition has been withheld as a trade secret

### 4. FIRST AID MEASURES

#### First aid measures

<b><u>General Advice</u></b>	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.
<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. Seek immediate medical attention/advice. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>Skin contact</b>	Immediate medical attention is required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
<b>Inhalation</b>	Remove to fresh air. If not breathing, give artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, (trained personnel should) give oxygen.
<b>Ingestion</b>	Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
<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 direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.

#### Most important symptoms and effects, both acute and delayed

**Most Important Symptoms and Effects** Burning.

#### Indication of any immediate medical attention and special treatment needed

**Notes to Physician** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Move containers from fire area if you can do it without risk. Dike fire control water for later disposal; do not scatter the material. Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.

### Unsuitable extinguishing media

CAUTION: Use of water spray when fighting fire may be inefficient.

### Specific hazards arising from the chemical

Some are oxidizers and may ignite combustibles (wood, paper, oil, clothing, etc.).

### Hazardous Combustion Products

Carbon oxides.

### Explosion Data

Sensitivity to Mechanical Impact No.

Sensitivity to Static Discharge No.

### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

#### Personal precautions

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. Stop leak if you can do it without risk.

#### Other Information

Do not get water inside containers.

### Environmental precautions

#### Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas.

### Methods and material for containment and cleaning up

#### Methods for containment

Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

#### Methods for cleaning up

Pick up and transfer to properly labeled containers. Soak up with inert absorbent material.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Use only with adequate ventilation and in closed systems. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

### Conditions for safe storage, including any incompatibilities

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Store locked up. Keep out of the reach of children. Store away from other materials.

**Incompatible Products** Acids. Bases. Oxidizing agent.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

**Exposure Guidelines** The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium bisulfite. 7631-90-5	TWA: 5 mg/m <sup>3</sup>	(vacated) TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>

*ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits NIOSH IDLH Immediately Dangerous to Life or Health*

**Other Exposure Guidelines** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992)

### Appropriate engineering controls

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Face protection shield.

**Skin and body protection** Wear protective gloves and protective clothing. Long sleeved clothing. Chemical resistant apron. Impervious gloves.

**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.

**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. 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. For environmental protection, remove and wash all contaminated protective equipment before re-use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical and Chemical Properties**

<b>Physical state</b>	Liquid	<b>Odor</b>	Pungent
<b>Appearance</b>	Colorless to pale yellow	<b>Odor Threshold</b>	No data available
<b>Color</b>	No information available		

<u>Property</u>	<u>Values</u>	<u>Remarks</u>	<u>Method</u>
<b>pH</b>	5	None known	
<b>Melting / freezing point</b>	No data available	None known	
<b>Boiling point / boiling range</b>	No data available	None known	
<b>Flash Point</b>	No data available	None known	
<b>Evaporation Rate</b>	No data available	None known	
<b>Flammability (solid, gas)</b>	No data available	None known	
<b>Flammability Limit in Air</b>			
<b>Upper flammability limit</b>	No data available		
<b>Lower flammability limit</b>	No data available		
<b>Vapor pressure</b>	No data available	None known	
<b>Vapor density</b>	No data available	None known	
<b>Specific Gravity</b>	1.126	None known	
<b>Water Solubility</b>	Soluble in water	None known	
<b>Solubility in other solvents</b>	No data available	None known	
<b>Partition coefficient: n-octanol/water</b>	Not Applicable	None known	
<b>Autoignition temperature</b>	No data available	None known	
<b>Decomposition temperature</b>	No data available	None known	
<b>Kinematic viscosity</b>	No data available	None known	
<b>Dynamic viscosity</b>	No data available	None known	
<b>Explosive properties</b>	No data available		
<b>Oxidizing properties</b>	No data available		

**Other Information**

<b>Softening Point</b>	No data available
<b>VOC Content (%)</b>	No data available
<b>Particle Size</b>	No data available
<b>Particle Size Distribution</b>	

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Hazardous Polymerization

Hazardous polymerization does not occur.

### Conditions to avoid

Exposure to air or moisture over prolonged periods.

### Incompatible materials

Acids. Bases. Oxidizing agent.

### Hazardous Decomposition Products

Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

##### **Inhalation**

Specific test data for the substance or mixture is not available. Corrosive by inhalation. (based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal.

##### **Eye contact**

Specific test data for the substance or mixture is not available. Causes burns. (based on components). Corrosive to the eyes and may cause severe damage including blindness.

##### **Skin contact**

Specific test data for the substance or mixture is not available. Corrosive. (based on components). Causes burns.

##### **Ingestion**

Specific test data for the substance or mixture is not available. Causes burns. (based on components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways.

#### Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium bisulfite. 7631-90-5	= 1310 mg/kg ( Rat )	-	-
Anhydrous sodium sulfite 7757-83-7	= 5680 mg/kg ( Rat )	-	> 22 mg/L ( Rat ) 1 h
Sodium sulphate 7757-82-6	> 10000 mg/kg ( Rat )	-	-

### Information on toxicological effects

**Symptoms** Erythema (skin redness). Burning. Coughing and/ or wheezing.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Sensitization** No information available.

**Mutagenic Effects** No information available.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Sodium bisulfite. 7631-90-5		Group 3		
Anhydrous sodium sulfite 7757-83-7		Group 3		

*IARC (International Agency for Research on Cancer)  
Group 3 - Not Classifiable as to Carcinogenicity in Humans*

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Chronic Toxicity** No known effect based on information supplied. Effects from this product caused by acute exposure may cause permanent damage to target organs and/or may cause chronic conditions. Chronic exposure to corrosive fumes/gases may cause erosion of the teeth followed by jaw necrosis. Bronchial irritation with chronic cough and frequent attacks of pneumonia are common. Gastrointestinal disturbances may also be seen. Carcinogenic potential is unknown.

**Target Organ Effects** Respiratory system. Eyes. Skin. Gastrointestinal tract (GI).

**Aspiration Hazard** No information available.

### Numerical measures of toxicity Product Information

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

**ATEmix (oral)**

7,415.00 mg/kg

**ATEmix (inhalation-dust/mist)**

107.10 mg/L



## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Harmful to aquatic life.

Chemical name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Sodium bisulfite. 7631-90-5		96h LC50: = 240 mg/L (Gambusia affinis)		48h EC50: = 119 mg/L
Anhydrous sodium sulfite 7757-83-7		96h LC50: 220 - 460 mg/L (Leuciscus idus)	EC50 = 770 mg/L 17 h	24h LC50: = 330 mg/L
Sodium sulphate 7757-82-6		96h LC50: = 13500 mg/L (Lepomis macrochirus) 96h LC50: 3040 - 4380 mg/L (Lepomis macrochirus) 96h LC50: > 6800 mg/L (Pimephales promelas) 96h LC50: 13500 - 14500 mg/L (Pimephales promelas)		96h EC50: = 630 mg/L 48h EC50: = 2564 mg/L

### Persistence and Degradability

No information available.

### Bioaccumulation

Chemical name	Log Pow
Anhydrous sodium sulfite 7757-83-7	-4

### Other adverse effects

No information available.

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

#### Disposal methods

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

#### Contaminated Packaging

Dispose of contents/containers in accordance with local regulations.

## 14. TRANSPORT INFORMATION

### DOT

UN-No.	UN2693
Proper Shipping Name	BISULFITES, AQUEOUS SOLUTIONS, N.O.S.
Hazard Class	8

**Packing Group** III  
**Description** UN2693, BISULFITES, AQUEOUS SOLUTIONS, N.O.S., 8, III  
**Emergency Response Guide Number** 154

**TDG**

**Proper Shipping Name** BISULFITES, AQUEOUS SOLUTION, N.O.S.  
**Description** UN2693, BISULFITES, AQUEOUS SOLUTION, N.O.S., 8, III

**MEX**

**UN-No.** UN2693  
**Proper Shipping Name** BISULPHITES, AQUEOUS SOLUTION, N.O.S.  
**Hazard Class** 8  
**Packing Group** III  
**Description** UN2693, BISULPHITES, AQUEOUS SOLUTION, N.O.S., 8, III

**ICAO**

**UN-No.** UN2693  
**Proper Shipping Name** BISULPHITES, AQUEOUS SOLUTION, N.O.S.  
**Hazard Class** 8  
**Packing Group** III  
**Description** UN2693, BISULPHITES, AQUEOUS SOLUTION, N.O.S., 8, III

**IATA**

**UN-No.** UN2693  
**Proper Shipping Name** BISULPHITES, AQUEOUS SOLUTION, N.O.S.  
**Hazard Class** 8  
**Packing Group** III  
**ERG Code** 8L  
**Description** UN2693, BISULPHITES, AQUEOUS SOLUTION, N.O.S., 8, III

**IMDG/IMO**

**UN-No.** UN2693  
**Proper Shipping Name** BISULPHITES, AQUEOUS SOLUTION, N.O.S.  
**Hazard Class** 8  
**Packing Group** III  
**EmS-No.** F-A, S-B  
**Description** UN2693, BISULPHITES, AQUEOUS SOLUTION, N.O.S., 8, III

**RID**

**UN-No.** UN2693  
**Proper Shipping Name** BISULPHITES, AQUEOUS SOLUTION, N.O.S.  
**Hazard Class** 8  
**Packing Group** III  
**Classification code** C1  
**Description** UN2693, BISULPHITES, AQUEOUS SOLUTION, N.O.S., 8, III  
**ADR/RID-Labels** 8

**ADR**

**UN-No.** UN2693  
**Proper Shipping Name** BISULPHITES, AQUEOUS SOLUTION, N.O.S.  
**Hazard Class** 8  
**Packing Group** III  
**Classification code** C1  
**Tunnel restriction code** (E)  
**Description** UN2693, BISULPHITES, AQUEOUS SOLUTION, N.O.S., 8, III, (E)

**ADN**

UN-No.	UN2693
Proper Shipping Name	BISULPHITES, AQUEOUS SOLUTION, N.O.S.
Hazard Class	8
Packing Group	III
Classification code	C1
Special Provisions	274
Description	UN2693, BISULPHITES, AQUEOUS SOLUTION, N.O.S., 8, III
Hazard Labels	8
Limited Quantity	5 L

## 15. REGULATORY INFORMATION

**International Inventories**

TSCA	Complies
DSL	All components are listed either on the DSL or NDSL.
IECSC	

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**US Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**SARA 311/312 Hazard Categories**

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

**CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium bisulfite. 7631-90-5	5000 lb			X

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Sodium bisulfite. 7631-90-5	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

**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	Rhode Island	Illinois
Sodium bisulfite. 7631-90-5	X	X	X	X	
Sodium sulphate 7757-82-6		X	X		

**International Regulations****Canada****WHMIS Hazard Class**

Not determined

**16. OTHER INFORMATION**

<b>NFPA</b>	<b>Health Hazards</b>	3	<b>Flammability</b>	0	<b>Instability</b>	0	<b>Physical and Chemical Hazards - Personal Protection</b>
<b>HMIS</b>	<b>Health Hazards</b>	3	<b>Flammability</b>	0	<b>Physical Hazard</b>	0	

**Prepared By** Turbo-Chem Int'l, INC.  
106 West Saul  
Scott, La. 70583

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**Revision Note** No information available

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of Safety Data Sheet**