Material Safety Data Sheet

Section 1. Identification of the chemical and supplier

Product Name: Antioxidation liquid **Synonyms:**
commodity code:/
(M)SDS Number: 3409EN
Relevant identified use(s): /
Emergency telephone number: 13814829868（24h）
Name of the company: Trojan (Suzhou) Material Technology Co., Ltd
Address of the company: Building 26, No. 228 Gongtang Road Luzhi Town,Wuzhong District, Suzhou, China.
Post code: 215000 Fax number: 0512-67508229
Telephone number: 0512-67580617
E-mail address: sales@trojanchina.com

Section 2. Hazards identification

Hazard classification according to GHS:

Acute toxicity - Oral	Category 4	(H302)
Eye irritation	Category 2	(H319)
Hazards to the water environment - chronic	Category 3	(H400)

Hazard pictograms:



Signal word: Warning

Hazard statements:
H302 Harmful if swallowed;
H319 Causes serious eye irritation;
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

1. **Prevention:**

P264 Wash ... thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...
P273 Avoid release to the environment.

2. **Response:**

P301+P317 IF SWALLOWED: Get medical help.
P330 Rinse mouth.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P391 Collect spillage.

3. **Storage:**

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

4. **Disposal:**

P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Section 3. Composition/information on ingredients

Name： Antioxidation liquid			
Substances			
Chemical name	**EC No.**	**CAS No.**	**Weight-%**
1H-Benzotriazole	202-394-1	95-14-7	10
Water	231-791-2	7732-18-5	90

Section 4. First-aid measures

General advice: Immediate medical attention is required. Show this material safety data sheet (MSDS) to the doctor in attendance .

Description of necessary first-aid measures

If inhaled

This can cause serious lung damage if inhaled. If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. Avoid direct contact with skin. Use isolation items during mouth-to-mouth resuscitation. If breathing is difficult, oxygen is given (by trained personnel).Seek medical attention immediately. Delayed pulmonary edema may occur.

Following skin contact

Wash immediately with soap and plenty of water, and remove contaminated clothing and shoes. See a doctor if you develop eczema or other skin complaints.

Following eye contact

Seek medical attention immediately. Immediately rinse with plenty of water, including under eyelids, for at least 15 minutes. Keep eyes open while rinsing. If contact lenses are in and easily removed, remove contact lenses. Continue rinsing and do not rub the affected area.

Following ingestion

Swallowing is an inhalation hazard - it can enter the lungs and cause damage. Do not induce vomiting. If spontaneous vomiting occurs, lower your head below your hips to prevent inhaling the vomit. Rinse your mouth with water and drink plenty of it. Do not give anything through the mouth to an unconscious patient. Seek medical attention immediately.

Most important symptoms/effects, acute and delayed

Difficulty in breathing, coughing and/or wheezing and dizziness.
Advice for protecting the rescuer Remove all sources of fire. Ensure that health care workers are aware of the materials involved, take their own precautions and prevent the spread of contamination. Wear personal protective clothing and avoid direct contact with skin. Use isolation items during mouth-to-mouth resuscitation. Use personal protective equipment as required.
Special note to the doctor Because of the risk of inhalation, vomiting or gastric lavage should not be taken unless the reason for the risk is the presence of another toxic substance.

Section 5. Firefighting measures

Suitable extinguishing media: Chemical dry powder, carbon dioxide (CO_2), water spray, soluble foam.
Specific hazards arising from the substance or mixture Special hazards caused by chemicals. Products and empty containers should be kept away from heat and fire sources. In case of fire, spray the tank to cool it.
Special fire extinguishing procedure: N.A.
Special protective actions for fire-fighters: Firefighters should wear self-contained breathing apparatus and full fire fighting clothing and use personal protective equipment.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Evacuate people to safety. Use personal protective equipment as required. Take precautions against electrostatic discharge. Do not touch or pass through leaking material and ensure adequate ventilation.
Environmental precautions: To prevent further leakage or spillage as far as is safe and practicable.
Methods and materials for containment and cleaning up **Methods for containment**: If you can do it without risk, stop the leak. Do not touch or pass through leaking material. Embankment was built far from the spill for subsequent disposal. **Methods for cleaning up**: Take precautions against electrostatic discharge. Dam up. Absorb with inert absorbent material. Collect and transfer to appropriately labeled containers.

Section 7. Handling and storage

Precautions for handling Use personal protective equipment. Do not breathe in steam or smoke. Keep away from heat source/spark/open flame/hot surface. No smoking. Take precautions against electrostatic discharge. Use local exhaust ventilation.
Precautions for storage: Keep container tightly closed and in a dry, cool and well ventilated place. Keep away from heat sources, sparks, flames, and other sources of ignition (i.e. lights, motors, and static electricity).Store in appropriately labeled containers. Storage in accordance with specific national regulations. Store in accordance with local regulations. The storage area must be locked. Store out of reach of children. Keep away from other materials.

Operation cautions: Do not eat, drink or smoke when using this product. Contaminated work clothes shall not be taken out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before rest and immediately after handling the product.

Section 8. Exposure controls/personal protection

Engineering control: No special requirements. **Exposure Limits:** This product is supplied free of any hazardous substances that have occupational exposure limits established by a regional regulatory authority.
Control parameters - 8 hours daily average admissible concentration/short time average admissible concentration/maximum admissible concentration：N.A. - biological indicator：N.A.
Personal protection equipment - Respiratory protection: no special requirements. - Hand protection: avoid direct contact and wear protective gloves. - Eye protection: Tightly sealed goggles. If splashing is a possibility, wear safety glasses with side guards. - Skin and body protection: no special precautions.
Hygiene measures: Air pollution control requirements.

Section 9. Physical and chemical properties

Appearance: Light yellow liquid	**Odor**: Odourless
Odor threshold: Data without data	**Melting point:** 0 ℃
pH: Data without data	**Initial boiling point and boiling range**: 100℃
Vapor pressure: 1mmHg (at 20℃)	**Vapor density :** N.A.
Relative density: (Water =1) 1.0-1.1	**Solubility:** N.A.

Section 10. Stability and reactivity

Stability and reactivity	
Stable at room temperature	
The explosion of data	N.A.
Sensitive to mechanical impact	N.A.
Sensitive to electrostatic discharge	N.A.
Possible hazardous reactions under special circumstances: It doesn't happen during normal processing	
Conditions to avoid: No special requirements. **Prohibited content:** No information available.	
Hazardous decomposition products: Not under normal service conditions.	

Section 11. Toxicological information

Exposure route: Inhalation: Specific test data for this substance or mixture are not available. Eye contact: specific test data for this substance or mixture is not available. Skin contact: specific test data for this substance or mixture is not available. Intake: Specific test data for this substance or mixture are not available.
Symptoms: No information available.
Chronic or chronic toxicity: Late and immediate effects and chronic effects from short - and long-term exposures: Skin corrosion/irritation: no information available Severe eye injury/eye irritation: no information available Respiratory or skin sensitization: no information available Germ cell mutagenesis: no information available Carcinogenicity: No information available Reproductive Toxicity: No information available STOT - One Touch: No information available STOT - Repeated Contact: No information available Inhalation Hazard: No information available

Section 12. Ecological information

Ecotoxicity:/
Persistence and Degradability: The product degrades easily.
Bioaccumulation: No information available.
Mobility in soil: No information available.
Other adverse effects: No information available.

Section 13. Disposal considerations

Waste treatment methods:	
Residues/waste from unused products	Dispose of waste in accordance with local regulations and environmental regulations.
Contaminated Packaging	No information available.

Section 14. Transport information

Special Name for Transport: Container bottles are not specified for <110 Gal.

International Transport Regulations: No special requirements.
UN Name: UN3077
Transport hazard class：9
Packing group: III
Marine pollutant：Y
Special transportation method and matters needing attention: No special requirements.

Others:

IMDG/IMO	
UN number	3077
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Hazard Class	9
Packing Group	III
Marine Pollutant	Y
Environment Hazards	N.A.
Special provisions	N.A.
Bulk transportation basis MARPOL 73/78	N.A.
RID	
UN number	3077
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Hazard Class	9
Packing Group	III
Environment Hazards	Y
Special provisions	N.A.
ADR	
UN number	3077
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Hazard Class	9
Packing Group	III
Environment Hazards	Y
Special provisions	N.A.
IATA	
UN number	3077
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Hazard Class	9
Packing Group	III
Environment Hazards	Y
Special provisions	N.A.

Section 15. Regulatory information

Applicable regulations: China

Section 16. Others

Reference		
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Tabulation date	2026-09-01	