


SAFETY DATA SHEET (SDS)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name/ Commercial Name:	QT Sporicide
Product Code:	QT6520-xx
Product Configuration:	Screw Cap Bottles
Manufacturer Name:	QUANTUMTEC (A Life Science Solutions Division of PMA Manufacturing Sdn. Bhd.)
Product Use:	Industrial, Manufacturing and/or Laboratory Use
Address:	11, Lintang Beringin 3, Diamond Valley, 11960 Bayan Lepas, Penang, Malaysia.
General Phone No.:	+604-626 5518
Emergency Contact No.:	+604-626 5518
Email Address:	davin@pma-asia.com ; aidakhaw@pma-asia.com

SECTION 2: HAZARD(S) IDENTIFICATION

OSHA Hazards:	Flammable, Oxidising, Corrosive, Danger
GHS Pictograms:	
Signal Word:	DANGER!
GHS Classifications:	Oxidising liquids: Category 3
	Acute toxicity (Oral): Category 4
	Skin corrosion/irritation: Category 1A
	Serious eye damage/eye irritation: Category 1
	Specific target organ toxicity – single exposure: Category 3 (Respiratory system)
	Organic peroxides: Type F
GHS Label Elements, Including Precautionary Elements (The code refers to GHS Standard)	
Hazard Statement:	H241-Heating may cause a fire
	H272 – May intensify fire; Oxidiser
	H314 – Causes severe skin burns and eye damage
	H302 – Harmful if swallowed

	H335 – May cause respiratory irritation
Precautionary Statements:	P210 - Keep away from heat/hot surfaces, sparks/ open flames and other ignition sources. — No smoking.
	P220- Keep away from clothing and other combustible materials
	P221- Take any precaution to avoid mixing with combustibles.
	P234- Keep only in original container.
	P235- Keep cool
	P240-Ground and bond container and receiving equipment.
	P270- Do not eat, drink or smoke when using this product.
	P271- Use only outdoors or in a well-ventilated
	P370 - In case of fire: Use dry chemical, carbon dioxide to extinguish small fires. Use water for large fires.
	P280 - Wear protective gloves, protective clothing, eye protection and face protection.
	P403+233 - Store in a well-ventilated place. Keep container tightly closed.
	P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. If eye irritation persists: Get medical advice/attention.
	P304+312+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
	P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P501 - Dispose of contents / container in accordance with Local, State, Federal and Provincial regulations.	
Emergency Overview:	DANGER! Flammable. Irritant. May cause drowsiness or dizziness.
Route of Exposure:	Eyes, Skin and Inhalation.
Potential Health Effects:	Eye: Eye contact with product or vapors may result in irritation, redness, and blurred vision. May cause pain disproportionate to the level of irritation to eye tissues. Vapor may cause eye irritation experienced as mild discomfort and redness. May cause moderate corneal injury.
	Skin: May cause irritation. Repeated exposure may cause a burning sensation and dryness or cracking. Prolonged skin contact is unlikely to result in absorption of harmful amounts.
	Inhalation: Inhalation of vapors, fumes or mists of the product may be irritating to the respiratory system. Excessive exposure (400 ppm) may cause eye, nose and throat irritation. Higher levels may cause incoordination, confusion, hypotension, hypothermia, circulatory collapse, respiratory arrest, and death may follow a longer duration and higher levels. In confined or poorly ventilated areas, vapors can readily accumulate and can cause unconsciousness and death.
	Ingestion: May cause irritation. Ingesting large amounts may cause injury. May cause central nervous system depression, nausea and vomiting. Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal.
Chronic Health Effects:	Prolonged or repeated contact may cause skin irritation. Repeated or prolonged inhalation may cause toxic effects.

Target Organs:	Eyes. Skin. Respiratory system. Digestive system.
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SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	w/v (Weight by Volume)	Formula
Hydrogen Peroxide	7722-84-1	10-30%	H ₂ O ₂
Acetic Acid	64-19-7	5-10%	CH ₃ COOH
Peracetic Acid	79-21-0	5-10%	C ₂ H ₄ O ₃

SECTION 4: FIRST-AID MEASURES

Eye Contact:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Skin Contact:	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated cloth before reuse.
Inhalation:	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call POISON CONTROL CENTER or doctor/physician if you feel unwell.
Ingestion:	If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Do not use mouth to mouth method.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing Media:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	None known.
Protective Equipment:	In the event of a fire, wear Self-Contained Breathing Apparatus (SCBA), approved or in accordance to NFPA, NIOSH, and/or European Standard EN 137 guidelines or equivalent and full protective gear.
Special precautions:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Must be disposed in accordance to local regulations.
Hazardous Combustion By-products:	Oxides of carbon

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Protection:	Evacuate area and keep unnecessary and unprotected personnel from entering the spill area. Avoid breathing vapor, aerosol or mist. Avoid contact with skin, eyes and clothing.
Methods for Containment:	For small spills contain with sand or vermiculite and dilute the contained product at least 10 times with water. Transfer to an open topped container and remove to a safe place for neutralization* / disposal. For large spills contain spill and evacuate the area, leave until the reaction subsides, then collect up for disposal.

Environmental precautions & Methods for Cleanup:	Obtain consent from the local water company / authority if considering discharge to sewer. *NEUTRALIZATION: once diluted, neutralize with a suitable alkali such as sodium bicarbonate. Combustible materials exposed to this product should be rinsed immediately with large amounts of water to ensure that all product is removed.
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SECTION 7: HANDLING AND STORAGE

Handling:	Use with adequate ventilation. Avoid breathing vapor and fumes. Use only in accordance with directions. Do not mix with bleach or other chlorinated products –will cause chlorine gas.
Storage:	Store in a cool, dry, well ventilated area away from sources of heat, combustible materials, direct sunlight, and incompatible substances. Pressure bursts may occur due to gas evolution if the container is not adequately vented. Keep container tightly closed when not in use. Keep away from aldehydes, halogenated organics, halogens, strong acids, and strong oxidizers. Store at the temperature range of -10 to 40°C

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Component	CAS-NO.	Form of Exposure	Permissible Concentration	Basis
Hydrogen peroxide	7722-84-1	TWA	1 ppm 1.4 mg/m ³	MY OEL
Acetic acid	64-19-7	TWA	10 ppm 25 mg/m ³	MY OEL

Engineering Controls:	Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment. Maintain air concentrations below occupational exposure standards.
Eye/Face Protection:	Safety glasses with side shields must be worn at all times. If splash hazard exists, wear chemical splash goggles and/or face shield.
Hand Protection Description:	Wear appropriate protective gloves. Consult glove manufacturer's data for permeability data.
Respiratory Protection:	Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Comply with the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State Appearance:	Clear, colorless liquid.
Odor:	Pungent
Odor Threshold:	Not Available
Boiling Point:	Not Available
Melting Point:	Not Available

Specific Gravity:	1.10 – 1.14
Solubility:	Soluble in water.
pH:	1.0, (100 %)

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability:	Pressure build-up. Contamination may result in dangerous pressure increases -closed containers may rupture
Hazardous Polymerization:	May produce Carbon oxides. Do not mix with bleach or other chlorinated products –will cause chlorine gas.
Conditions to Avoid:	Keep away from heat, ignition sources and incompatible materials.
Incompatible Materials:	Metals, Bases, Organic materials

SECTION 11: TOXICOLOGICAL INFORMATION

Route of Exposure:	Inhalation, Eye contact, Skin contact
Potential Health Effects:	Eyes: Causes serious eye damage. Skin: Causes severe skin burns. Ingestion: Harmful if swallowed. Causes digestive tract burns. Inhalation: May cause respiratory tract irritation. May cause nose, throat, and lung irritation. May be harmful if inhaled. Chronic Exposure: Health injuries are not known or expected under normal use.
Experience with Human Exposure:	Eye contact: Redness, Pain, Corrosion Skin contact: Redness, Pain, Corrosion Ingestion: Corrosion, Abdominal pain, Vomiting Inhalation: Respiratory irritation, Cough
Toxicity:	Acute oral toxicity: Acute toxicity estimate: 1,663 mg/kg Acute inhalation toxicity: 4 h Acute toxicity estimate: > 0.5 – 1 mg/l (Test atmosphere: dust/mist) Acute dermal toxicity: Acute toxicity estimate: > 2,000 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:	Environmental Effects: No known ecotoxicological effects. Toxicity to fish: 96 h LC50: 17.8 mg/l Toxicity to daphnia and other aquatic invertebrates: 96 h LC50: 21.2 mg/l Toxicity to algae: no data available Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity): 96 h NOEC: 15 mg/l
Bioaccumulation:	No data available

SECTION 13: DISPOSAL INFORMATION

Disposal method:	The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.
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Disposal consideration:	Do not reuse containers. The recycling or disposal to be done by approved waste handlers.
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SECTION 14: TRANSPORTATION INFORMATION

DOT UN Number:	UN 3109
DOT Shipping Name:	ORGANIC PEROXIDE TYPE F, LIQUID (Peroxyacetic acid, type F, stabilized)
DOT Hazard Class:	5.2(8)
DOT Packing Group:	N/A
IMDG UN Number:	UN 3109
IMDG Shipping Name:	ORGANIC PEROXIDE TYPE F, LIQUID (Peroxyacetic acid, type F, stabilized)
IMDG Hazard Class:	5.2(8)
IMDG Packing Group:	N/A
Marine Pollutant:	No
IATA UN Number:	UN 3109
IATA Shipping Name:	ORGANIC PEROXIDE TYPE F, LIQUID (Peroxyacetic acid, type F, stabilized)
IATA Hazard Class:	5.2(8) & Keep Away from Heat
IATA Packing Group:	N/A

SECTION 15: REGULATORY INFORMATION

TSCA Inventory Status:	Listed
Canada DSL:	Listed
United States TSCA:	Listed

SECTION 16: ADDITIONAL INFORMATION

M/SDS Creation Date:	17 Dec 2019
M/SDS Revision Date:	03 Jan 2024

Disclaimer:

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