

# SAFETY DATA SHEET

# 1. Identification

Product identifier	Q.T.	
Other means of identification		
SDS number	566N-151A	
Product code	HIL00167	
Product registration number	1839-166-1658	
Recommended use	Disinfectant/Cleaner	
<b>Recommended restrictions</b>	For Labeled Use Only	
Manufacturer/Importer/Supplier/Distributor information		
Manufacturer		
Company name	HILLYARD INDUSTRIES	
Address	302 North Fourth St.	
	St. Joseph, MO 64501	

Contact person	Regulatory Affairs
Telephone number	(816) 233-1321 (Ext. 8285)
Fax	(816) 383-8485
E-mail	regulatoryaffairs@hillyard.com
Emergency telephone #	(800) 424-9300
	(Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident involving chemicals)

# 2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 1
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 2
	Hazardous to the aquatic environment, long-term hazard	Category 2
OSHA defined hazards	Not classified.	

Label elements



Signal word	Danger
Hazard statement	Causes skin irritation. Causes serious eye damage. Toxic to aquatic life with long lasting effects.
Precautionary statement	
Prevention	Wash thoroughly after handling. Avoid release to the environment. Wear eye protection/face protection. Wear protective gloves.
Response	If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. Collect spillage.
Storage	Store away from incompatible materials.

Material name: Q.T.

Disposal	Buyer assumes all risk and liability associated with disposal of this product (original concentration or dilution) in violation of applicable law in compliance with applicable federal, state and local requirements. CONTAINER DISPOSAL: Triple rinse (or equivalent), then offer clean, dry container for recycling or reconditioning.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Alkyl dimethyl benzyl ammonium chloride (C12-16)		68424-85-1	4.339%
Octyl decyl dimethyl ammonium chloride		32426-11-2	3.255%
Alcohols (C12-15 In, Saturated) Ethoxylate		68131-39-5	1 - < 3
Ethanol		64-17-5	1 - < 3
Tetrasodium ethylenediamine tetraacetate		64-02-8	1 - < 3
Didecyl dimethyl ammonium chloride		7173-51-5	1.628%
Dioctyl dimethyl ammonium chloride		5538-94-3	1.628%
Other components below reportable	levels		80 - < 90

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

## 4. First-aid measures

Specific methods General fire hazards

Move to fresh air. Call a physician if symptoms develop or persist.
Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
Rinse mouth. Get medical attention if symptoms occur.
Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.
Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Do not use water jet as an extinguisher, as this will spread the fire.
During fire, gases hazardous to health may be formed.
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials. No unusual fire or explosion hazards noted.

# 6. Accidental release measures

o. Accidental release mea	
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Prevent product from entering drains.
	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Do not get this material in contact with eyes. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL. PESTICIDE STORAGE - Store in a dry place no lower in temperature than 50°F or higher than 120°F.

# 8. Exposure controls/personal protection

## **Occupational exposure limits**

Components	Туре	Value
Ethanol (CAS 64-17-5)	PEL	1900 mg/m3
		1000 ppm
US. ACGIH Threshold Lin	nit Values	
Components	Туре	Value
Ethanol (CAS 64-17-5)	STEL	1000 ppm
US. NIOSH: Pocket Guide	e to Chemical Hazards	
Components	Туре	Value
Ethanol (CAS 64-17-5)	TWA	1900 mg/m3
		1000 ppm
ological limit values	No biological exposure limits noted for the ingredient(s).	
propriate engineering ntrols	Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.	
ividual protection measure	es, such as personal protective equip	ment
Eye/face protection	Chemical safety goggles when work	king with concentrate.
Skin protection		
Hand protection	Wear appropriate chemical resistant gloves.	
Other	Impervious boots and aprons where splashing of concentrate is a problem; otherwise, use uniforms or coveralls.	
Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.	
Thermal hazards	None known.	

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

# 9. Physical and chemical properties

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Appearance	Clear, red liquid	
Physical state	Liquid.	
Form	Liquid.	
Color	Red	
Odor	Fresh & Clean odor	
Odor threshold	Not available	
рН	6 - 7 Concentrate	
Melting point/freezing point	Not applicable / Not available	
Initial boiling point and boiling range	202 °F (94.44 °C)	
Flash point	> 200.0 °F (> 93.3 °C) Tag Closed Cup	
Evaporation rate	< 1 Ethyl ether = 1	
Flammability (solid, gas)	Not applicable.	
Upper/lower flammability or explosive limits		
Explosive limit - lower (%)	Not available.	
Explosive limit - upper (%)	Not available.	
Vapor pressure	17.82 mm Hg	
Vapor density	0.6428	
Relative density	1.004 at 77°F	
Solubility(ies)		
Solubility (water)	100 %	
Partition coefficient (n-octanol/water)	Not available	
Auto-ignition temperature	Not available	
Decomposition temperature	Not available	
Viscosity	Not available	
Other information		
Density	8.36 lb/gal	
Explosive properties	Not explosive.	
Oxidizing properties	Not oxidizing.	
Percent volatile	83 - 85 %	
VOC	1.36 %	

# 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

# 11. Toxicological information

## Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye damage.

Material name: Q.T.

Ingestion	Expected to be a low ingestion hazard.	
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Symptoms related to the physical, chemical and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.

#### Information on toxicological effects

Acute toxicity	Not known.	
Product	Species	Test Results
Q.T.		
<u>Acute</u>		
Inhalation		
LC50	Mouse	8000 mg/l, 2 Hours estimated
		2134 mg/l, 4 Hours estimated
	Rat	16400 mg/l, 0.5 Hours estimated
		9600 mg/l, 4 Hours estimated
Oral		
LD50	Guinea pig	413 g/kg estimated
	Mouse	14292 mg/kg estimated
	Rat	4864 mg/kg estimated
Components	Species	Test Results
-	n chloride (CAS 7173-51-5)	
Acute		
Dermal		
LD50	Rabbit	2730 mg/kg
Oral		
LD50	Mouse	268 mg/kg
	Rat	84 mg/kg
Ethanol (CAS 64-17-5)		
<u>Acute</u>		
Inhalation		
LC50	Mouse	39 mg/l, 4 Hours
	Rat	20000 ppm, 10 Hours
Oral		
LD50	Guinea pig	5.6 g/kg
	Mouse	3450 mg/kg
	Rat	6.2 g/kg
Tetrasodium ethylenediami	ne tetraacetate (CAS 64-02-8)	
Acute		
Oral		
LD50	Rat	> 2000 mg/kg
* Entimates for product	may be based on additional component data	a not shown
Skin corrosion/irritation	may be based on additional component data Causes skin irritation.	1 HUL SHUWH.
Serious eye damage/eye	Causes serious eye damage.	
rritation	, ,	
Respiratory or skin sensi		
Respiratory sensitiza		
Skin sensitization	This product is not expected to caus	
Germ cell mutagenicity	No data available to indicate produc mutagenic or genotoxic.	t or any components present at greater than 0.1% are
Carcinogenicity	This product is not considered to be	a carcinogen by IARC, ACGIH, NTP, or OSHA.

Not listed. US. National Toxicology Pro Not listed.	Evaluation of Carcinogenicity ogram (NTP) Report on Carcinogens lated Substances (29 CFR 1910.1001-1050)
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Prolonged inhalation may be harmful.
Chronic effects	Prolonged inhalation may be harmful.

# 12. Ecological information

toxicity	I oxic to a	quatic life with long lasting effects.	
Product		Species	Test Results
Q.T.			
Aquatic			
Crustacea	EC50	Daphnia	63.3341 mg/l, 48 hours estimated
Fish	LC50	Fish	29.225 mg/l, 96 hours estimated
Components		Species	Test Results
Alcohols (C12-15 In, Sat	urated) Ethoxylat	e (CAS 68131-39-5)	
Aquatic			
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	0.37 - 0.43 mg/l, 48 hours
Fish	LC50	Channel catfish (Ictalurus punctatus)	1.04 - 1.39 mg/l, 96 hours
Alkyl dimethyl benzyl am Aquatic	nmonium chloride	(C12-16) (CAS 68424-85-1)	
Fish	LC50	Striped bass (Morone saxatilis)	10.4 - 19.1 mg/l, 96 hours
Didecyl dimethyl ammor Aquatic	ium chloride (CA	S 7173-51-5)	
Fish	LC50	White sturgeon (Acipenser transmontanus)	0.001 - 0.01 mg/l, 96 hours
Ethanol (CAS 64-17-5)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	7.7 - 11.2 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas	s) > 100 mg/l, 96 hours
Tetrasodium ethylenedia Aquatic	amine tetraacetate	e (CAS 64-02-8)	
Fish	LC50	Bluegill (Lepomis macrochirus)	472 - 500 mg/l, 96 hours
* Estimates for product r	nav be based on	additional component data not shown.	
sistence and degradabi	•	available on the degradability of this produc	t.
accumulative potential	-		
Partition coefficient n-	octanol / water (	og Kow) -0.31	
oility in soil	No data a	vailable.	
er adverse effects		adverse environmental effects (e.g. ozone de endocrine disruption, global warming potentia	

# 13. Disposal considerations

Disposal instructions	PESTICIDE DISPOSAL - Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Waste from normal product use may be sewered to a public owned treatment works (POTW) in compliance with applicable Federal, State, and local pretreatment requirements.
Contaminated packaging	CONTAINER HANDLING– Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. Triple rinse container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1⁄4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

## 14. Transport information

#### DOT

Not regulated as dangerous goods.

#### ΙΑΤΑ

Not regulated as dangerous goods.

## IMDG

Not regulated as dangerous goods.

# Transport in bulk according toNot established.Annex II of MARPOL 73/78 andthe IBC Code

## 15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Hazard categories

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

#### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No chemical

# SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

Safe Drinking Water Act Not regulated. (SDWA)

FEMA Priority Substan	ces Respiratory Health and Safety in the Flavor Manufacturing Workplace
Ethanol (CAS 64-17	-5) Low priority
FIFRA Information	FIFRA: This product is a U.S. EPA Registered pesticide, EPA Reg. No. 1839-166-1658, and is subject to certain labeling requirements under Federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide products. The hazard information required on the pesticide label is reproduced here.
	PRECAUTIONARY STATEMENTS: HAZARDS TO HUMANS AND DOMESTIC ANIMALS. DANGER KEEP OUT OF REACH OF CHILDREN. CORROSIVE. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin or on clothing. May be fatal if absorbed through skin. Harmful if swallowed. Wear goggles or face shield, rubber gloves, and protective clothing. Remove contaminated clothing and wash before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.
	FIRST AID Have the product container or label with you when calling a poison control center or doctor, or going for treatment. If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call poison control center or doctor for treatment advice. If swallowed: Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person. If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice. NOTE TO PHYSICIAN Probable mucosal damage may contraindicate the use of gastric lavage.
US state regulations	California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.
US. California Proposition 6	65
	Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain isted as carcinogens or reproductive toxins.

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
	ents of this product comply with the inventory requirements administered b components of the product are not listed or exempt from listing on the inve	

# 16. Other information, including date of preparation or last revision

Issue date Revision date Version # HMIS® ratings	04-24-2015 09-02-2016 02 Health: 3 Flammability: 0 Physical hazard: 0
Disclaimer	No representations or warranties, either express or implied, of merchantability, fitness for a particular purpose, or of any nature are made with respect to the product(s) or information contained in this material safety data sheet. The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate. The buyer or user assumes all risks associated with the use, misuse or disposal of this product. The buyer or user is responsible to comply with all federal, state or local regulations concerning the use, misuse or disposal of these products. HILLYARD cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.
Revision information	This document has undergone significant changes and should be reviewed in its entirety.