

# SAFETY DATA SHEET

Oisin Fretany Chanes

1. Identification

Q.T. Plus

Spray Bottler in Classicoms

Surface Cleaner

Product identifier Other means of identification

SDS number

538N-02A

Product code

HIL00824

**Product registration** 

6836-77-1658

number

Recommended use

Disinfectant/Cleaner

Recommended restrictions

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

Flammable liquids

Category 4

Health hazards

Skin corrosion/irritation

Category 1

Serious eye damage/eye irritation

Category 1

Sensitization, respiratory

Category 1

Sensitization, skin

Category 1

**Environmental hazards** 

Hazardous to the aquatic environment, acute hazard

Category 3

Hazardous to the aquatic environment,

Category 3

long-term hazard

**OSHA** defined hazards

Not classified.

Label elements



Signal word

Danger

Hazard statement

Combustible liquid. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

Material name: Q.T. Plus

SDS US

Precautionary statement

Keep away from flames and hot surfaces-No smoking. Do not breathe mist or vapor. Wash Prevention

thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate

ventilation wear respiratory protection.

If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all Response

contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. 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 or rash occurs: Get medical advice/attention. Wash contaminated

clothing before reuse. In case of fire: Use appropriate media to extinguish.

Store in a well-ventilated place. Keep cool. Store locked up. Storage

Buyer assumes all risk and liability associated with disposal of this product (original concentration Disposal

or dilution) in violation of applicable law in compliance with applicable federal, state and local requirements. 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, Container Disposal: Nonrefillable container. Do not reuse or refill

this container. Wrap empty container and put in trash.

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	%
Didecyldimethylammonium Chloride (ddac (c8-10))		68424-95-3	5 - < 10
Alkyl dimethyl benzyl ammonium chloride (C12-16)		68424-85-1	3 - < 5
C9-11 Alcohols Ethoxylated		68439-46-3	3 - < 5
Tetrasodium EDTA		64-02-8	3 - < 5
Ethanol		64-17-5	1 - < 3
Fragrance		Mixture	0.3
Other components below reportable le	evels		70 - < 80

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

#### 4. First-aid measures

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or Inhalation

artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If experiencing respiratory symptoms: Call a poison center or

doctor/physician.

Remove contaminated clothing immediately and wash skin with soap and water. Call a physician Skin contact

or poison control center immediately. Chemical burns must be treated by a physician. For minor skin contact, avoid spreading material on unaffected skin. Wash contaminated clothing before

reuse.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important

symptoms/effects, acute and

delayed

Ingestion

May cause temporary blindness and severe eye damage. Burning pain and severe corrosive skin damage. Causes serious eye damage. Corrosive effects. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Difficulty in breathing.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

SDS US

Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves. Wash contaminated clothing before reuse.

Material name: Q.T. Plus

**General information** 

### 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

\*\*\*\*

The product is combustible, and heating may generate vapors which may form explosive vapor/air mixtures. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

In case of fire and/or explosion do not breathe fumes.

Specific methods
General fire hazards

Move container from fire area if it can be done without risk.

Combustible liquid. No unusual fire or explosion hazards noted.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. 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

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water. Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

**Environmental precautions** 

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. 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

Keep away from open flames, hot surfaces and sources of ignition. When using do not smoke. Do not get in eyes, on skin, or on clothing. Do not get this material on clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Do not empty into drains. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS). Do not contaminate water, food or feed by storage or disposal. Pesticide Storage: Open dumping is prohibited. Store in original container in areas inaccessible to children.

#### 8. Exposure controls/personal protection

### Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

## US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	туре	value
Ethanol (CAS 64-17-5)	PEL	1900 mg/m3
		1000 ppm
US. ACGIH Threshold Limit Values		
Components	Туре	Value
Ethanol (CAS 64-17-5)	STEL	1000 ppm

Material name: Q.T. Plus

US. NIOSH: Pocket Guide to Chemical Hazards

Value Components Type Ethanol (CAS 64-17-5) **TWA** 1900 mg/m3

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

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. Ensure adequate ventilation. especially in confined areas. Eye wash facilities and emergency shower must be available when handling this product.

1000 ppm

Individual protection measures, such as personal protective equipment

Eye/face protection

Avoid contact with eyes. Chemical safety goggles when working with concentrate.

Skin protection

Hand protection

Wear appropriate chemical resistant gloves.

Other

Avoid contact with the skin. If unable to avoid prolonged or repeated contact with skin, wear impervious clothing.

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.

General hygiene considerations

When using, do not eat, drink or smoke, 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. Contaminated work clothing should not be allowed out of the workplace.

### 9. Physical and chemical properties

**Appearance** 

Clear, yellow liquid

Physical state

Liquid.

**Form** 

Liquid.

Color

Yellow

Odor

Lemon odor

Odor threshold

Not available

12 - 13.5 concentrate

Melting point/freezing point

Not applicable / Not available

Initial boiling point and boiling

range

208 °F (97.78 °C)

Flash point

160.0 °F (71.1 °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

17.81 mm Hg

Vapor density

0.6408 Air =1 1.017 at 77°F

Relative density Solubility(ies)

Solubility (water)

100 % Complete

Partition coefficient

Not available

(n-octanol/water)

Auto-ignition temperature

Not available

Decomposition temperature

Not available

Viscosity

Not available

Other information

Density

8.47 lb/gal

**Explosive properties** 

Not explosive.

Oxidizing properties

Not oxidizing.

Percent volatile

78.5 - 80.5 %

VOC

1.36 %

## 10. Stability and reactivity

Reactivity

Reacts violently with strong acids. This product may react with oxidizing agents.

Chemical stability

Material is stable under normal conditions.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid

temperatures exceeding the flash point. Contact with incompatible materials. Do not mix with other

chemicals.

Incompatible materials

Acids. Strong oxidizing agents. Oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

### 11. Toxicological information

Information on likely routes of exposure

Inhalation

May cause irritation to the respiratory system. May cause allergy or asthma symptoms or

breathing difficulties if inhaled. Prolonged inhalation may be harmful.

Skin contact

Causes severe skin burns. May cause an allergic skin reaction.

Eye contact

Causes severe eye burns. Causes serious eye damage.

Ingestion

Causes digestive tract burns.

Symptoms related to the physical, chemical and toxicological characteristics

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

blindness could result. Difficulty in breathing.

Information on toxicological effects

Acute toxicity

Draduat

Not known. Cuasias

Product	Species	lest Results	
Q.T. Plus			
<u>Acute</u>			
Inhalation			
LC50	Rat	6957 mg/l, 4 Hours	
Oral			
LD50	Rat	41210 mg/kg	

Ethanol (CAS 64-17-5)

Components

Acute

Inhalation

LC50

Mouse

**Species** 

39 mg/l, 4 Hours

**Test Results** 

T--4 D----14-

Oral

LD50

Rat

6.2 g/kg

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/eye

Causes severe eye burns. Causes serious eye damage.

irritation

Respiratory or skin sensitization

Respiratory sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin sensitization

May cause an allergic skin reaction.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

Not classifiable as to carcinogenicity to humans.

Material name: Q.T. Plus

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

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

Not an aspiration hazard. Prolonged inhalation may be harmful.

Chronic effects

Prolonged inhalation may be harmful.

## 12. Ecological information

**Ecotoxicity** 

Harmful to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

Proc	luct		Species	Test Results
Q.T.	Plus			
	Aquatic			
	Crustacea	EC50	Daphnia	120.675 mg/l, 48 hours estimated
	Fish	LC50	Fish	98.1631 mg/l, 96 hours estimated
Com	ponents		Species	Test Results
Alky	I dimethyl benzyl ammon	ium chloride (C12	2-16) (CAS 68424-85-1)	
	Aquatic			
	Fish	LC50	Striped bass (Morone saxatilis)	10.4 - 19.1 mg/l, 96 hours
C9-1	11 Alcohols Ethoxylated (	CAS 68439-46-3	)	
	Aquatic			
	Crustacea	EC50	Water flea (Daphnia magna)	2.9 - 8.5 mg/l, 48 hours
	Fish	LC50	Fathead minnow (Pimephales promelas)	6 - 12 mg/l, 96 hours
Etha	anol (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)	> 100 mg/l, 96 hours

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

No data available.

Partition coefficient n-octanol / water (log Kow)

Ethanol

-0.31

Mobility in soil

No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

#### 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

Empty containers or liners may retain some product residues. This material and its container must

be disposed of in a safe manner (see: Disposal instructions).

Material name: Q.T. Plus

SDS US

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Container Disposal: Nonrefillable container. Do not reuse or refill this container. Wrap empty container and put in trash.

### 14. Transport information

DOT

**UN** number

UN1903

UN proper shipping name

Disinfectants, Liquids, Corrosive, n.o.s. ((N,N-DIALKYL - N,N-DIMETHYL AMMONIUM

CHLORIDE, N-ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE))

Transport hazard class(es)

Class

8

Subsidiary risk Label(s)

8

Packing group

III

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**ERG** number

153

IATA

**UN** number

UN1903

UN proper shipping name

Disinfectants, Liquids, Corrosive, n.o.s. ((N,N-DIALKYL - N,N-DIMETHYL AMMONIUM

CHLORIDE, N-ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE))

Transport hazard class(es)

Class

8

Subsidiary risk

Packing group

III

**Environmental hazards** 

No.

**ERG Code** 

153

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only

Allowed with restrictions.

**IMDG** 

**UN** number

UN1903

UN proper shipping name

Disinfectants, Liquids, Corrosive, n.o.s. ((N,N-DIALKYL - N,N-DIMETHYL AMMONIUM

CHLORIDE, N-ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE))

Transport hazard class(es)

Class

8

Subsidiary risk

Packing group

Ш

**Environmental hazards** 

No.

Marine pollutant **EmS** 

F-A, S-B

Not established.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

DOT



Material name: Q.T. Plus

### IATA; IMDG



**General information** 

PACKAGES 1 GALLON AND SMALLER ARE SHIPPED LIMITED QUANTITY OR ORM-D. This material is regulated under IATA and IMDG regulations. Contact manufacturer for shipping instructions.

### 15. Regulatory information

**US** federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

**Toxic Substances Control Act (TSCA)** 

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.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

Classified hazard

categories

Flammable (gases, aerosols, liquids, or solids)

Skin corrosion or irritation

Serious eye damage or eye irritation Respiratory or skin sensitization

SARA 313 (TRI reporting)

Not regulated.

### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Contains component(s) regulated under the Safe Drinking Water Act.

(SDWA)

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Ethanol (CAS 64-17-5)

Low priority

Material name: Q.T. Plus

SDS US

#### **FIFRA Information**

FIFRA: This product is a U.S. EPA Registered pesticide, EPA Reg. No. 6836-77-1658, 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

Corrosive. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin, or on clothing. Wear protective eyewear (goggles, face shield, or safety glasses), protective clothing and protective (rubber or chemical resistant) gloves. Harmful if swallowed or if absorbed through the skin. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

FIRST AID: IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. IF SWALLOWED: Call a 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 a poison control center or doctor. Do not give anything by mouth to an unconscious person.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. Call a poison control center or doctor for treatment advice. Have the product container or label with you when calling a poison control center or doctor or going for treatment.

#### 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.

#### California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

#### International Inventories

Country(s) or region

Inventory name

On inventory (yes/no)\*

Canada Canada Domestic Substances List (DSL)
Non-Domestic Substances List (NDSL)

Yes No

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

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

Issue date

05-26-2015 07-22-2020

Revision date Version #

04

HMIS® ratings

Health: 3\*

Flammability: 2 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.

**Revision information** 

Product and Company Identification: Alternate Trade Names

Physical & Chemical Properties: Multiple Properties

Toxicological Information: Toxicological Data

Transport Information: Proper Shipping Name/Packing Group

Material name: Q.T. Plus

SDS US

			* * *
	÷		