SAFETY DATA SHEET



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Quat-Stat 5

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Section 1. Identif	ication
GHS product identifier	: Quat-Stat 5
Product code	: 341
Other means of identification	: Not available.
Product type	: Liquid.
Relevant identified uses of	the substance or mixture and uses advised against
Not applicable.	
Supplier's details	: Betco Corporation 400 Van Camp Road Bowling Green, Ohio 43402 www.betco.com 888-462-3826
Emergency telephone number (with hours of operation)	: Chemtrec (800) 424-9300 24 hour
Section 2. Hazard	Is identification
OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: FLAMMABLE LIQUIDS - Category 4 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 SKIN CORROSION - Category 1B SERIOUS EYE DAMAGE - Category 1
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	: Combustible liquid. Harmful if swallowed or in contact with skin. Causes severe skin burns and eye damage.
Precautionary statements	
Prevention	: Wear protective gloves: < 1 hour (breakthrough time): butyl rubber. Wear eye or face protection: Recommended: chemical splash goggles and/or face shield Wear protective clothing: Recommended: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.Rubber or plastic apron Keep away from flames and hot surfaces No smoking. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.
Response	: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician. IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing and

Section 2. Hazards identification

Hazards not otherwise classified	: None known.
Disposal	 Dispose of contents and container in accordance with all local, regional, national and international regulations.
Storage	: Store locked up. Store in a well-ventilated place. Keep cool.
	wash it before reuse. 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 or physician.

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of	: Not available.
identification	

Ingredient name	%	CAS number
dimethyldioctylammonium chloride	≥10 - ≤25	5538-94-3
Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides	≥10 - ≤25	68391-01-5
Alcohols, C6-12, ethoxylated	≤10	68439-45-2
tetrasodium ethylene diamine tetraacetate	≤3	64-02-8
ethanol	≤3	64-17-5
4-tert-butylcyclohexyl acetate	≤0.3	32210-23-4

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary firs	
Eye contact	: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
Inhalation	: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

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Section 4. First aid measures

Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/e	ffects, acute and delayed
Potential acute health effect	<u>:ts</u>
Eye contact	: Causes serious eye damage.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes severe burns. Harmful in contact with skin.
Ingestion	: Harmful if swallowed.
<u>Over-exposure signs/symp</u>	<u>toms</u>
Eye contact	: Adverse symptoms may include the following:
	pain watering
	redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains
Indication of immediate med	lical attention and special treatment needed, if necessary
Notes to physician	 In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Combustible liquid. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Section 5. Fire-fighting measures

Special protective	: Fire-fighters should wear appropriate protective equipment and self-contained breathing
equipment for fire-fighters	apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	ont	ainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	-	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	on skin o adequate not enter original o tightly clo any othe material	ppropriate personal protect or clothing. Do not breather e ventilation. Wear approp storage areas and confin container or an approved a psed when not in use. Sto r ignition source. Use exp handling) equipment. Use pontainers retain product re	e vapor or mist. Do r priate respirator when led spaces unless ad alternative made from ore and use away fro plosion-proof electrica e only non-sparking t	not ingest. Use of n ventilation is in lequately ventilat n a compatible m m heat, sparks, of al (ventilating, ligh ools. Keep away	only with adequate. Do ed. Keep in t haterial, kept open flame or hting and y from acids.	o :he
Advice on general occupational hygiene	handled, drinking	Irinking and smoking shou stored and processed. W and smoking. Remove co eating areas. See also So s.	Vorkers should wash ontaminated clothing	hands and face and protective e	before eating quipment befo	
Conditions for safe storage, including any incompatibilities	Store in area, aw locked u materials have bee not store	accordance with local regu original container protecte ay from incompatible mate p. Eliminate all ignition so s. Keep container tightly c en opened must be carefu in unlabeled containers. nation. See Section 10 for	d from direct sunligh erials (see Section 10 purces. Separate from closed and sealed un lly resealed and kept Use appropriate con	t in a dry, cool ar 0) and food and (m acids. Separa til ready for use. upright to preve tainment to avoid	d well-ventila drink. Store te from oxidiz Containers th nt leakage. E d environmen	ated zing hat Do
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Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
dimethyldioctylammonium chloride	None.
Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides	None.
Alcohols, C6-12, ethoxylated	None.
tetrasodium ethylene diamine tetraacetate	None.
ethanol	ACGIH TLV (United States, 3/2017).
	STEL: 1000 ppm 15 minutes.
	OSHA PEL 1989 (United States, 3/1989).
	TWA: 1000 ppm 8 hours.
	TWA: 1900 mg/m ³ 8 hours.
	NIOSH REL (United States, 10/2016).
	TWA: 1000 ppm 10 hours.
	TWA: 1900 mg/m ³ 10 hours.
	OSHA PEL (United States, 6/2016).
	TWA: 1000 ppm 8 hours.
	TWA: 1900 mg/m ³ 8 hours.
4-tert-butylcyclohexyl acetate	None.

Appropriate engineering controls	:	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measu	<u>ires</u>	
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/ or face shield. If inhalation hazards exist, a full-face respirator may be required instead. Recommended: chemical splash goggles and/or face shield.
Skin protection		
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. < 1 hour (breakthrough time): butyl rubber
Body protection	- :	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Rubber or plastic apron.

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Section 8. Exposure controls/personal protection

Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Rubber or plastic boots.
Respiratory protection	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Possible: In case of vapor formation use a respirator with an approved filter.

Section 9. Physical and chemical properties

<u>Appearance</u>		
Physical state	Liquid.	
Color	Purple. [Dark]	
Odor	Floral.	
Odor threshold	Not available.	
рН	: 11.5 to 13	
Melting point	Not available.	
Boiling point	Not available.	
Flash point	Closed cup: 73°C (163.4°F)	
Evaporation rate	Not available.	
Flammability (solid, gas)	Not available.	
Lower and upper explosive	Not available.	
(flammable) limits		
Vapor pressure	Not available.	
Vapor density	Not available.	
Relative density	1.00055	
Solubility	Easily soluble in the following materials: cold water and hot water.	
Solubility in water	Not available.	
Partition coefficient: n- octanol/water	Not available.	
Auto-ignition temperature	Not available.	
Decomposition temperature	Not available.	
Viscosity	Not available.	
Flow time (ISO 2431)	Not available.	

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
Incompatible materials	: Not available.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
tetrasodium ethylene diamine tetraacetate	LD50 Oral	Rat	10 g/kg	-
ethanol	LC50 Inhalation Vapor	Rat	124700 mg/m ³	4 hours
	LD50 Oral	Rat	7 g/kg	-
4-tert-butylcyclohexyl acetate	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3550 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
tetrasodium ethylene diamine	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
tetraacetate	Skin - Moderate irritant	Rabbit	-	milligrams 24 hours 500 milligrams	-
ethanol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	0.0666666667 minutes 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	100 microliters	-
	Eyes - Severe irritant	Rabbit	-	500 milligrams	-
	Skin - Mild irritant	Rabbit	-	400	-
	Skin - Moderate irritant	Rabbit	-	milligrams 24 hours 20 milligrams	-
4-tert-butylcyclohexyl acetate	Skin - Mild irritant	Guinea pig	-	4 hours 3 Percent	-
	Skin - Moderate irritant	Rabbit	-	4 hours 100 Percent	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 milligrams	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
ethanol	-	1	-

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name			Catego	-	Route of exposure		Tar	get organs	
Quaternary ammonium co C12-18-alkyldimethyl, chlo			Categor	/ 2	Not determine	ed	Not	determined	
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Section 11. Toxicological information

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure	1	Routes of entry anticipated: Oral, Dermal. Routes of entry not anticipated: Inhalation.					
Potential acute health effects	2						
Eye contact	:	Causes serious eye damage.					
Inhalation	:	: No known significant effects or critical hazards.					
Skin contact	:	Causes severe burns. Harmful in contact with skin.					
Ingestion	;	Harmful if swallowed.					
Symptoms related to the phy	sic	al, chemical and toxicological characteristics					
Eye contact	:	Adverse symptoms may include the following: pain watering redness					
Inhalation	:	No specific data.					
Skin contact	:	Adverse symptoms may include the following: pain or irritation redness blistering may occur					
Ingestion	1	Adverse symptoms may include the following: stomach pains					
Delayed and immediate effect	ts	and also chronic effects from short and long term exposure					
<u>Delayed and immediate effec</u> <u>Short term exposure</u>	ts	and also chronic effects from short and long term exposure					
		and also chronic effects from short and long term exposure Not available.					
Short term exposure Potential immediate	:						
Short term exposure Potential immediate effects	:	Not available.					
Short term exposure Potential immediate effects Potential delayed effects	:	Not available.					
Short term exposure Potential immediate effects Potential delayed effects Long term exposure Potential immediate	:	Not available. Not available. Not available.					
Short term exposure Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects		Not available. Not available. Not available. Not available.					
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Short term exposure Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential chronic health effe Not available. General	: : : ect	Not available. Not available. Not available. Not available. S No known significant effects or critical hazards.					
Short term exposurePotential immediateeffectsPotential delayed effectsLong term exposurePotential immediateeffectsPotential delayed effectsPotential chronic health effectsNot available.GeneralCarcinogenicity	: : : ect	Not available. Not available. Not available. Not available. No known significant effects or critical hazards. No known significant effects or critical hazards.					
Short term exposurePotential immediateeffectsPotential delayed effectsLong term exposurePotential immediateeffectsPotential delayed effectsPotential delayed effectsPotential chronic health effectsNot available.GeneralCarcinogenicityMutagenicity	: : : ect	Not available. Not available. Not available. Not available. Not available. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.					
Short term exposurePotential immediateeffectsPotential delayed effectsLong term exposurePotential immediateeffectsPotential delayed effectsPotential delayed effectsPotential chronic health effectsNot available.GeneralCarcinogenicityMutagenicityTeratogenicity	: : : : : : : : : :	Not available. Not available. Not available. Not available. Not available. No known significant effects or critical hazards. No known significant effects or critical hazards.					

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Product/ingredient name	Result	Species	Exposure
dimethyldioctylammonium chloride	Acute EC50 0.1 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 0.7 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
tetrasodium ethylene diamine tetraacetate	Acute LC50 486000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
ethanol	Acute EC50 17.921 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 2000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 25500 µg/l Marine water	Crustaceans - Artemia franciscana - Larvae	48 hours
	Acute LC50 42000 µg/l Fresh water	Fish - Oncorhynchus mykiss	4 days
	Chronic NOEC 4.995 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Chronic NOEC 100 ul/L Fresh water	Daphnia - Daphnia magna - Neonate	21 days
	Chronic NOEC 0.375 ul/L Fresh water	Fish - Gambusia holbrooki - Larvae	12 weeks

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
tetrasodium ethylene diamine tetraacetate	5.01	1.8	low
ethanol 4-tert-butylcyclohexyl acetate	-0.35 4.8	-	low high

Mobility in soil

Soil/water partition : Not available. coefficient (Koc)

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classificatio	TDG on Classification	Mexico Classification	ADR/RID	IMDG	ΙΑΤΑ		
UN number	UN1760	UN1760	UN1760	UN1760	UN1760	UN1760		
UN proper shipping name	Corrosive Liquids, N.O. (Dioctyldimethylammo Chloride)	S. nium	Corrosive Liquids, N.O.S. (Dioctyldimethylammonium Chloride)	Corrosive Liquid, N.O.S. (Dioctyldimethylammonium chloride)	Corrosive Liquid, N.O.S. (Dioctyldimethylammonium chloride)	Corrosive Liquid, N.O.S. (Dioctyldimethylammonium chloride)		
Transport hazard class(es)					8	8	8	8
Packing group						11		
Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.		
Additional inform	ion :	waterways in size provided the pack Limited quantity		or by road, rail, or eneral provisions	inland air in non- of §§ 173.24 and	bulk sizes, 173.24a.		
TDG Classificati	ion :	Goods Regulatior	l as per the followin ns: 2.40-2.42 (Class ant mark is not req	s 8), 2.7 (Marine	oollutant mark).	-		
ADR/RID	:	The environmenta sizes of ≤5 L or ≤ <u>Tunnel code</u> (E)	ally hazardous subs	•	•			
IMDG	:	The marine pollut	ant mark is not req	uired when transp	ported in sizes of	≤5 L or ≤5 kg.		
ΙΑΤΑ	:	The environmentation reg		stance mark may	appear if required	d by other		
Special precaution	ns for user :	Transport within upright and secur event of an accide	e. Ensure that pers	• •				
Transport in bulk to Annex II of MAI the IBC Code	• • • • •	Not available.						

Section 15. Regulatory information

U.S. Federal regulations	 TSCA 8(a) PAIR: anisaldehyde; α-hexylcinnamaldehyde; 3-p-cumenyl-2- methylpropionaldehyde
	TSCA 8(a) CDR Exempt/Partial exemption: Not determined
	Clean Water Act (CWA) 311: sodium hydroxide; Formaldehyde, solution

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Section 15. Regulatory information

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Listed
Clean Air Act Section 602 Class I Substances	: Not listed
Clean Air Act Section 602 Class II Substances	: Not listed
DEA List I Chemicals (Precursor Chemicals)	: Not listed
DEA List II Chemicals (Essential Chemicals)	: Not listed

SARA 302/304

Composition/information on ingredients

			SARA 302 TPQ		SARA 304 RQ	
Name	%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
formaldehyde	≤0.1	Yes.	500	73.9	100	14.8

: 2857142.9 lbs / 1297142.9 kg [342480.5 gal / 1296429.8 L]

SARA 304 RQ SARA 311/312 Classification

: FLAMMABLE LIQUIDS - Category 4 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 SKIN CORROSION - Category 1B SERIOUS EYE DAMAGE - Category 1

Composition/information on ingredients

Name	%	Classification
dimethyldioctylammonium	≥10 - ≤25	ACUTE TOXICITY (oral) - Category 4
chloride		ACUTE TOXICITY (dermal) - Category 3
		SKIN CORROSION - Category 1B
		SERIOUS EYE DAMAGE - Category 1
		CARCINOGENICITY - Category 1B
Quaternary ammonium	≥10 - ≤25	ACUTE TOXICITY (oral) - Category 4
compounds, benzyl-		ACUTE TOXICITY (inhalation) - Category 2
C12-18-alkyldimethyl, chlorides		SKIN CORROSION - Category 1
		SERIOUS EYE DAMAGE - Category 1
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) -
		Category 2
Alcohols, C6-12, ethoxylated	≤10	ACUTE TOXICITY (oral) - Category 4
		ACUTE TOXICITY (dermal) - Category 4
		SKIN IRRITATION - Category 2
	10	SERIOUS EYE DAMAGE - Category 1
tetrasodium ethylene diamine	≤3	ACUTE TOXICITY (oral) - Category 4
tetraacetate	-0	SERIOUS EYE DAMAGE - Category 1
ethanol	≤3	FLAMMABLE LIQUIDS - Category 2
4 to the utility cale has used a participation	-0.2	EYE IRRITATION - Category 2A
4-tert-butylcyclohexyl acetate	≤0.3	SKIN SENSITIZATION - Category 1

State regulations

Massachusetts	: The following components are listed: ETHYL ALCOHOL; DENATURED ALCOHOL
New York	: None of the components are listed.
New Jersey	: The following components are listed: ETHYL ALCOHOL; ALCOHOL
Pennsylvania	: The following components are listed: DENATURED ALCOHOL; ETHANOL
California Prop. 65	

WARNING: This product can expose you to Formaldehyde, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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Section 15. Regulatory information

0	bection 15. Regulatory information			
		level	Maximum acceptable dosage level	
	Formaldehyde	Yes.	-	

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC) Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

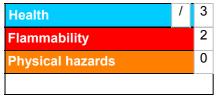
Not listed.

Inventory list

Australia	: Not determined.
Canada	: Not determined.
China	: Not determined.
Europe	: Not determined.
Japan	: Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined.
Malaysia	: Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: Not determined.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: At least one component is not listed.
Viet Nam	: Not determined.

Section 16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)

Section 16. Other information



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Procedure used to derive the classification

	Justification	
FLAMMABLE LIQUIDS - Ca ACUTE TOXICITY (oral) - C ACUTE TOXICITY (dermal) SKIN CORROSION - Categ SERIOUS EYE DAMAGE -	ategory 4 - Category 4 ory 1B	Expert judgment Expert judgment Expert judgment Expert judgment Expert judgment
<u>History</u>		
Date of printing	: 5/28/2019	
Date of issue/Date of revision	: 5/28/2019	
Date of previous issue	: 5/28/2019	
Version	: 2	
Key to abbreviations	 ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations 	
References	ferences : Not available.	

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.