

SAFETY DATA SHEET

1. Identification

Product identifier Other means of identification SDS number Product code	H-101 371N59A HIL00127
Product registration number	6836-89-1658
Recommended use	Sanitizer
Recommended restrictions Manufacturer/Importer/Supplier/ Manufacturer Manufacturer	None known. Distributor information
Company name Address	HILLYARD INDUSTRIES 302 North Fourth St. St. Joseph, MO 64501
Contact person Telephone number Fax E-mail Emergency telephone #	Regulatory Affairs (816) 233-1321 (Ext. 8285) (816) 383-8485 regulatoryaffairs@hillyard.com (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 1C
	Serious eye damage/eye irritation	Category 1
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 1
	Hazardous to the aquatic environment, long-term hazard	Category 1
OSHA defined hazards	Not classified.	
Label elements		
Signal word	Danger	
Hazard statement	5	Causes serious eve damage. Very toxic to aquatic
nazaru statement	Causes severe skin burns and eye damage. Causes serious eye damage. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.	
Precautionary statement		
Prevention	Do not breathe mist or vapor. Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.	
Response	If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all 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. Wash contaminated clothing before reuse. Collect spillage.	

Store locked up.

Storage

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.	
Hazard(s) not otherwise classified (HNOC)	None known.	
Supplemental information	None.	
2. Commenciation / information on ingradiante		

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides		68424-85-1	3 - < 5
Didecyldimethylammonium chloride		7173-51-5	1 - < 3
Dimethyldioctylammonium chloride		5538-94-3	1 - < 3
Ethanol		64-17-5	1 - < 3
Other components below reportable leve	ls		90 - 100

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

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.
Eye contact	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.
Ingestion	Call a physician or poison control center immediately. Rinse mouth thoroughly. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. If swallowed, drink promptly a large quantity of egg whites, gelatin solution or if these are not available, drink large quantities of water. Avoid alcohol. Call a physician immediately. Note to physician: Probable mucosal damage may contraindicate the use of gastric lavage.
Most important symptoms/effects, acute and delayed	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.
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. Keep victim under observation. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	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	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

0. Accidental release meas	
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 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. Follow precautions for safe handling described in this safety data sheet. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	This product is miscible in water. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.
	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. 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.
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. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.
7. Handling and storage	
Precautions for safe handling	Do not breathe mist or vapor. Do not get in eyes, on skin, or on 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 locked up. 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: Open dumping is prohibited. Store in original container in areas inaccessible to children.

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 Lim	it Values	
Components	Туре	Value
Ethanol (CAS 64-17-5)	STEL	1000 ppm
US. NIOSH: Pocket Guide	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	or the ingredient(s).
propriate engineering ntrols	General ventilation normally adequat	e.
lividual protection measure	s, such as personal protective equipm	ent
Eye/face protection	Chemical safety goggles when worki	ng with concentrate.
Skin protection		
Hand protection	Use protective gloves when dealing with the concentrate.	
Other	Not normally needed.	
Respiratory protection	In case of insufficient ventilation, wea	ar suitable respiratory equipment.
Thermal hazards	None known.	
neral hygiene nsiderations		ne measures, such as washing after handling the materia noking. Routinely wash work clothing and protective

9. Physical and chemical properties

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Appearance	Clear, colorless liquid
Physical state	Liquid.
Form	Liquid.
Color	Clear colorless or nearly colorless
Odor	non-objectionable odor
Odor threshold	Not available
рН	6.5 - 8
Melting point/freezing point	Not applicable / Not available
Initial boiling point and boiling range	> 200 °F (> 93.33 °C) Corr.
Flash point	> 200.0 °F (> 93.3 °C) Tag Closed Cup
Evaporation rate	< 1 Ethyl ether = 1
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	17.6 mm Hg
Vapor density	0.6 Air=1
Relative density	0.996 at 77°F
Solubility(ies)	
Solubility (water)	appreciable
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Other information	
Density	8.27 lb/gal
Percent volatile	91.5 - 92.5 %
VOC (Weight %)	1.51 %

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	Hazardous polymerization does not occur.
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	May cause irritation to the respiratory system. Prolonged inhalation may be harmful.		
Skin contact	Causes severe skin burns.		
Eye contact	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.		

Information on toxicological effects

Acute toxicity			
Product	Species	Test Results	
H-101			
Acute			
Inhalation			
LC50	Mouse	1924.9753 mg/l, 4 Hours estimated	
Oral			
LD50	Guinea pig	276.4067 g/kg estimated	
	Mouse	69541.3828 mg/kg estimated	
	Rat	36842.1055 mg/kg estimated	
* Estimates for product may	be based on additional	iponent data not shown.	
Skin corrosion/irritation		hs and eye damage.	
Serious eye damage/eye irritation	Causes serious eye	nage.	
Respiratory or skin sensitizatio	'n		
Respiratory sensitization	Not a respiratory ser	zer.	
Skin sensitization	This product is not e	cted to cause skin sensitization.	
Germ cell mutagenicity	No data available to mutagenic or genote	icate product or any components present at greater than 0.1% are	
Carcinogenicity	This product is not c	idered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	
US. OSHA Specifically Reg	ulated Substances (2	FR 1910.1001-1050)	
Not listed.			
Reproductive toxicity	This product is not e	cted 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 inhalatior	av be harmful.	
Chronic effects	Prolonged inhalatior	-	
12. Ecological informatio	n		
-		with long losting offects	
Ecotoxicity		with long lasting effects.	
Product	Spec	Test Results	
H-101			
Aquatic			
Fish	LC50 Fish	145.4318 mg/l, 96 hours estimated	
* Estimates for product may	be based on additional	iponent data not shown.	
Persistence and degradability	No data is available	the degradability of this product.	
Bioaccumulative potential			
Mobility in soil	No data available.		
Other adverse effects		onmental effects (e.g. ozone depletion, photochemical ozone creation ruption, global warming potential) are expected from this component.	
13. Disposal consideratio	ons		
Disposal instructions	Pesticide Disposal: pesticide, spray mixi disposed of by use a	sticide wastes are acutely hazardous. Improper disposal of excess or rinsate is a violation of Federal Law. If these wastes cannot be ording to label instructions, contact your State Pesticide or Environmental Hazardous Waste representative at the nearest EPA Regional Office for	
Local disposal regulations	Dispose in accordan	with all applicable regulations.	
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the was disposal company.		
Material name: H-101		SDS	

Waste from residues / unused products	Dispose of in accordance with local regulations. 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).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.
	Container Disposal: Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Fill container ¼ full with water and reclose the container. Agitate vigorously, and dispose of rinsate consistent with pesticide disposal instructions. Repeat two more times. Then offer for recycling if available or puncture and dispose in sanitary landfill or by other procedures approved by state and local authorities. Follow pesticide disposal instructions for rinsate. If not triple rinsed, these containers are acute hazardous wastes and must be disposed in accordance with local, state, and federal regulations.
14. Transport information	

DOT

UN1903
Disinfectants, Liquid, corrosive, n.o.s. (DIALKYL DIMETHYL AMMONIUM CHLORIDE,, N-ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE)
8
-
8
III
Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.
IB3, T4,TP1
154
203
241
153

DOT



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. All components are on the U.S. EPA TSCA Inventory List.
TSCA Section 12(b) Expo	rt Notification (40 CFR 707, Subpt. D)
Not regulated.	
CERCLA Hazardous Subs	stance List (40 CFR 302.4)
Not listed.	
SARA 304 Emergency rele	ease notification
Not regulated.	
US. OSHA Specifically Re	gulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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

SARA 302 Extremely hazardous substance

Not listed.

Hazard categories

SARA 311/312 Hazardous No chemical

SARA 313 (TRI reporting) Not regulated.

Other federal regulations

Safe Drinking Water Act (SDWA) **FIFRA** Information

Not regulated.

FIFRA: This product is a U.S. EPA Registered pesticide, EPA Reg. No. 6836-89-1658, 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. Harmful if swallowed or absorbed through the skin. Wear protective eyewear (goggles, face shield or safety glasses), protective clothing and protective gloves (rubber, chemical resistant) when handling. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse. After product is diluted in accordance with the directions for use, causes moderate eye irritation. Avoid contact with eyes and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

FIRST AID: IF IN EYES: Hold eve 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. 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 the poison control center or doctor. Do not give anything by mouth to an unconscious person. 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. NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

US state regulations

- US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100) Not listed.
- **US. Massachusetts RTK Substance List**

Ethanol (CAS 64-17-5)

- US. New Jersey Worker and Community Right-to-Know Act Ethanol (CAS 64-17-5)
- US. Pennsylvania Worker and Community Right-to-Know Law Ethanol (CAS 64-17-5)
- US. Rhode Island RTK

Not regulated.

US. California Proposition 65

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.

International Inventories

Country(s) or region

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

Inventory name

*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).

On inventory (yes/no)*

Yes

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

Issue date Version # HMIS® ratings	04-24-2015 01 Health: 3 Flammability: 0 Physical hazard: 0
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