SAFETY DATA SHEET



MIKRO QUAT

Section 1. Chemical product and company identification

Product name Recommended use and restrictions	RO QUAT aner and disinfectant only for the purpose on the product label.	
Product dilution information		
Supplier's information	lab Inc. Institutional Division N. Wabasha Street ^P aul, MN 55102 00-352-5326	
Code	818	
Date of issue	an 2014	
EPA Registration No.	7-21	
	ERGENCY HEALTH INFORMATION: 1-800-328-0026 side United States and Canada CALL 1-651-222-5352 (in USA)	

Section 2. Hazards identification

GHS Classification	Product AS SOLD : ACUTE TOXICITY: ORAL - Category 4 SKIN CORROSION/IRRITATION - Category 1B SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1	Product AT USE DILUTION Not classified.
GHS label elements		
Signal word Symbol	: Danger :	No signal word.
Hazard statements	: Harmful if swallowed. Causes severe skin burns and eye damage.	No known significant effects or critical hazards.
Precautionary stateme	ents	
Prevention	: Wear protective gloves. Wear eye or face protection. Wear protective clothing. Wash hands thoroughly after handling.	Wash thoroughly after handling.
Response	: IF INHALED: Remove victim to fresh air and keep at rest in a position 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 IN EYES: Rinse cautiously with water for several minutes.	Get medical attention if symptoms appear.

Section 2. Hazards identification		
	Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.	
Storage	: No other specific measures identified.	No other specific measures identified.
Disposal	: See section 13 for waste disposal information.	See section 13 for waste disposal information.
Other hazards	: None known.	None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture Product AS SOLD		
Hazardous ingredients	Concentration Range (%)	CAS number
Alkyl (50% C14, 40% C12, 10% C16) dimethylbenzyl ammonium chloride	9.5	68424-85-1
oxirane, methyl-, polymer with oxirane	5 - 20	9003-11-6
ETHANOLAMINE	1 - 5	141-43-5
ALCOHOL	1 - 5	64-17-5
2-benzothiazolethiol, sodium salt	<1.0	2492-26-4
Product AT USE DILUTION		
Hazardous ingredients	Concentration Range (%)	CAS number
Alkyl (50% C14, 40% C12, 10% C16) dimethylbenzyl ammonium chloride	9.5	68424-85-1

Section 4. First aid measures

	Product AS SOLD	Product AT USE DILUTION
Eye contact	: In case of contact, 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.	No known effect after eye contact. Rinse with water for a few minutes.
Skin contact	 In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Rinse skin with water or shower. Get medical attention immediately. Wash clothing before reuse. Clean shoes thoroughly before reuse. 	No known effect after skin contact. Rinse with water for a few minutes.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately.	No special measures required. Treat symptomatically.
Ingestion	: Get medical attention immediately. Rinse mouth. Do not induce vomiting.	Get medical attention if symptoms occur.
Protection of first- aiders	: No action shall be taken involving any personal risk or without suitable training. 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.	
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.	
See toxicological information (section 11)		

See toxicological information (section 11)

Section 5. Fire-fighting measures

Product AS SOLD	
Suitable fire extinguishing media	: Use water spray, fog or foam.
Specific hazards arising from the chemical	 In a fire or if heated, a pressure increase will occur and the container may burst. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	 Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
Specific fire-fighting methods	 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.
Special protective equipment for fire-fighters	 Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

	Product AS SOLD	Product AT USE DILUTION
Personal precautions	: Initiate company's spill response procedures immediately. Keep people out of area. Put on appropriate personal protective equipment (see section 8). Do not touch or walk through spilled material.	Use personal protective equipment as required.
Environmental precautions	: Avoid contact of spilled material and runoff with soil and surface waterways.	Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.
Methods for cleaning up	: Follow company's spill procedures. Keep people away from spill. Put on appropriate personal protective equipment (see section 8). Absorb/ neutralize liquid material. Use a tool to scoop up solid or absorbed material and put into appropriate labeled container. Use a tool to scoop up solid or absorbed material and place into appropriate labeled waste container. Use a water rinse for final clean-up.	Use a water rinse for final clean-up.

Section 7. Handling and storage

	Product AS SOLD	Product AT USE DILUTION
Handling	: Do not ingest. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Use only with adequate ventilation. Wash thoroughly after handling.	Wash thoroughly after handling.
Storage	: Keep out of reach of children. Keep container tightly closed.	Keep out of reach of children.
	Store between the following temperatures: 0 and 50°C	

Section 8. Exposure controls/personal protection

before reusing.

Ingredient name	Ex	posure limits
ETHANOLAMINE	AC S S T T OS T OS T NIC S S S S T NIC S T NIC T T T T T T T T T T T T T T T T T T T	GIH TLV (United States, 3/2012). TEL: 15 mg/m³ 15 minutes. TEL: 6 ppm 15 minutes. WA: 7.5 mg/m³ 8 hours. WA: 3 ppm 8 hours. WA: 6 mg/m³ 8 hours. WA: 6 mg/m³ 8 hours. WA: 3 ppm 8 hours. WA: 6 mg/m³ 8 hours. WA: 8 ppm 8 hours. WA: 8 ppm 10 hours. VA: 8 mg/m³ 10 hours. TEL: 6 ppm 15 minutes. TEL: 15 mg/m³ 15 minutes. GIH TLV (United States, 3/2012). TEL: 15 mg/m³ 15 minutes. GIH TLV (United States, 3/2012). TEL: 1000 ppm 15 minutes. HA PEL (United States, 6/2010). WA: 1900 mg/m³ 8 hours. WA: 1000 ppm 8 hours. WA: 1000 ppm 10 hours.
Appropriate engineering controls	 Product AS SOLD Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard. 	Product AT USE DILUTION Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Personal protection		
Eye protection	: Use chemical splash goggles. For continued or severe exposure wear a face shield over the goggles.	No protective equipment is needed under normal use conditions.
Hand protection	: Use chemical-resistant, impervious gloves.	No protective equipment is needed under normal use conditions.
Skin protection	: Use suitable protective equipment.	No protective equipment is needed under normal use conditions.
Respiratory protection	: A respirator is not needed under normal and intended conditions of product use.	A respirator is not needed under normal and intended conditions of product use.
Hygiene measures	: Wash hands, forearms and face thoroughly after I smoking and using the lavatory and at the end of the should be used to remove potentially contaminate	the working period. Appropriate techniques

Section 9. Physical and chemical properties

	Product AS SOLD	Product AT USE DILUTION
Physical state	: Liquid.	Liquid.
Color	: Red [Dark]	Red [Light]
Odor	: citrus	citrus
рН	: 11.35 to 0 (100%)	9.724 to 10.093
Flash point	: > 100°C Product does not support combustion.	> 100°C
Explosion limits	: Not available.	
Flammability (solid, gas)	: Not available.	
Melting point	: Not available.	
Boiling point	: Not available.	
Evaporation rate	: Not available.	
(butyl acetate = 1)		
Vapor pressure	: Not available.	
Vapor density	: Not available.	
Relative density	: 1.01 (Water = 1)	
Solubility	: Not available.	
Partition coefficient: n-octanol/water	: Not available.	
Auto-ignition temperature	: Not available.	
Decomposition temperature	: Not available.	
Odor threshold	: Not available.	
Viscosity	: Kinematic (room temperature): 0 cm ² /s (0 cSt)	

Section 10. Stability and reactivity

Product AS SOLD	. The product is stable
Stability Possibility of hazardous	 The product is stable. Under normal conditions of storage and use, hazardous reactions will not occur.
reactions	
Conditions to avoid Materials to avoid	 No specific data. Slightly reactive or incompatible with the following materials: acids.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Route of exposure	e : Skin contact, Eye contact, Inhalation, Ingestion	
	Product AS SOLD	Product AT USE DILUTION
Symptoms		
Eye contact	: Adverse symptoms may include the following: pain watering redness	No specific data.
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur	No specific data.

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Section 11. 7	Foxicological information
Inhalation	: Adverse symptoms may include the following: No specific data. coughing Respiratory tract irritation
Ingestion	: Adverse symptoms may include the following: No specific data. stomach pains
Acute toxicity	
Eye contact	: Causes serious eye damage. No known significant effects or critical hazards.
Skin contact	: Causes severe burns. No known significant effects or critical hazards.
Inhalation	: May cause respiratory irritation. No known significant effects or critical hazards.
Ingestion	: Harmful if swallowed. May cause burns to mouth, throat and stomach. No known significant effects or critical hazards.
Toxicity data	
Product/ingredient	name
•	um compounds, benzyl- LD50 Dermal Rabbit 3340 mg/kg
oxirane, methyl-, po	LD50 Oral Rat 344 mg/kg
2-aminoethanol	LD50 Dermal Rabbit >2000 mg/kg LD50 Oral Rat >2000 mg/kg LD50 Dermal Rabbit 1025 mg/kg
ethanol	LD50 Oral Rat 1089 mg/kg LC50 Inhalation Rat 117 mg/l Vapor
2-benzothiazolethiol	LD50 Dermal Rabbit 15800 mg/kg LD50 Oral Rat 10470 mg/kg
Chronic toxicity	
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effe	·
Fertility effects	: No known significant effects or critical hazards.
_	Ecological information

Product AS SOLD			
Ecotoxicity	: No known significant effects or critical hazards	6.	
Aquatic and terrestrial toxicity	¥		
Product/ingredient name	Result	Species	Exposure
Not available.			
Other adverse effects	: No known significant effects or critical hazards	6.	

Section 13. Disposal considerations

Product AS SOLDDisposal methods: Avoid disposal. Attempt to use product

completely in accordance with intended use. Disposal should be in accordance with applicable regional, national and local laws and regulations.

Product AT USE DILUTION

Diluted product can be flushed to sanitary sewer. Discard empty container in trash.

RCRA classification : Unused product is D001 (Ignitable)

Section 14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

DOT	
DOT Classification	Not regulated.
IMO/IMDG	
IMO/IMDG Classification	UN3082
IMO/IMDG Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (quaternary ammonium compounds, benzyl-c12-c16-alkyldimethyl, chlorides, solution). Marine pollutant
Class	9
Packing group	III

For transport in bulk, see shipping documents for specific transportation information.

Product AT USE DILUTION Not intended for transport.

Section 15. Regulatory information

Product AS SOLD

<u>U.S.</u>	Federal	regulations

TSCA 8(b) inventory

:	All components	are listed	or exempted.
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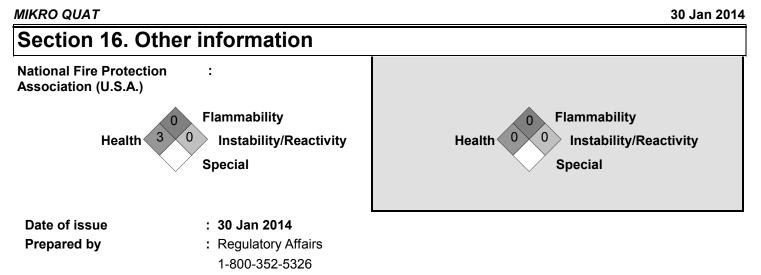
SARA 302/304/311/312 extremely hazardous substances: No listed substance

SARA 302/304 emergency planning and notification: No listed substance

<u>SARA 313</u>	Product name	<u>CAS number</u>	Concentration
Form R - Reporting requirements	: No listed substance		
<u>California Prop. 65</u>	: No listed substance		

Section 16. Other information

Product AS SOLD Hazardous Material : Information System (U.S.A.)			Product	AT USE DILUTION	
Health	*	3		Health	0
Flammability		0		Flammability	0
Physical hazards		0		Physical hazards	0



Notice to reader

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.