Material Safety Data Sheet

Quat 256

1 . Product and company identification

Product name	Quat 256	**In case of emergency**	1-800-843-6174
Code	256DN	**Validation date**	1/12/2012.
Material uses	Concentrated quaternary disinfectant/cleaner	**Print date**	1/12/2012.
Manufacturer	Essential Industries, Inc. P.O. Box 12 Merton, WI 53056-0012 Phone: 262-538-1122	**Responsible name**	**Regulatory Affairs Department**

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

Health	3	HAZARD RATING
Flammability	0	4 = Extreme 3 = High 2 = Moderate 1 = Slight 0 = Insignificant
Physical hazards	0	
Personal protection	B	

A = Goggles B = Goggles & Gloves C = Goggles, Gloves & Apron

2 . Hazards identification

Emergency overview May cause irritation or burns to the eyes, skin, gastrointestinal tract, and respiratory system.

Potential acute health effects due to overexposure

Inhalation Mists and vapors can irritate the throat and respiratory tract. High vapor concentrations may cause central nervous system effects. Symptoms may include headaches, dizziness, drowsiness and death.

Ingestion Although of moderate to low toxicity, ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea, and death.

Skin Causes irritation and/or corrosive burns. Brief exposures may cause irritation and defatting of the skin.

Eyes Causes irritation and/or burns and may result in permanent injury to eyes including blindness.

Potential chronic health effects due to overexposure

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 effects No known significant effects or critical hazards.

Fertility effects No known significant effects or critical hazards.

See toxicological information (section 8)

3 . Composition/information on ingredients

Name	CAS number	%
Alcohols, C12-15, ethoxylated	68131-39-5	5 - 10
tetrasodium ethylenediaminetetraacetate	64-02-8	1 - 5

4 . First aid measures

Eye contact Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Remove contact lenses after first 5 minutes, then continue rinsing eyes. Seek medical attention.

Skin contact Take off immediately all contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Inhalation If symptoms are experienced, move victim to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

Ingestion Call a poison 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.

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.

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. Probable mucosal damage may contraindicate the use of gastric lavage.

5 . Fire-fighting measures

Flammability of the product In a fire or if heated, a pressure increase will occur and the container may burst.

Extinguishing media

Suitable In case of fire, use water spray (fog), foam, dry chemical or CO_2. Solid water streams may spread burning liquid.

Special exposure hazards 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.

Hazardous thermal decomposition products Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
metal oxide/oxides

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. Cool closed containers exposed to fire with water.

Flash point Closed cup: >93.3°C (>199.9°F)

6. Control and preventive measures

Storage Keep container tightly closed in a cool, well-ventilated place. Keep from freezing. Do not handle or store near an open flame, heat or other sources of ignition. Prevent electrostatic charge buildup by using common bonding and grounding techniques.

Personal protection

Respiratory If exposure limits are exceeded or if irritation is experienced, a NIOSH/MSHA approved respirator with an organic-vapor removing cartridge should be worn. Ventilation and other forms of engineering controls are often the preferred means for controlling chemical exposure.

Hands 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.

Skin 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.

Eyes Wear chemical goggles. Use a face shield if splashing is possible.

Methods for cleaning up

Small spill Ventilate closed spaces before entering. All equipment used when handling the product must be grounded. Floor will be slippery. Do not touch or walk through spilled material. Stop leak if you can do it without risk. A vapor suppressing foam may be used to reduce vapors. Prevent entry into waterways, sewers, basements or confined areas. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Use clean non-sparking tools to collect absorbed material.

Waste disposal 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.

7. Physical and chemical properties

Physical state	Liquid	**Boiling/condensation point**	100°C (212°F)
Color	Colorless	**Melting/freezing point**	0°C (32°F)
Odor	Bland	**Vapor pressure**	4 kPa (30 mm Hg)
VOC	0.5%	**Vapor density**	<1 [Air = 1]
pH	11.3 to 12.3	**Weight per Gallon:**	8.72 lbs./gal.
1% pH:	8.8 to 9.8	**Specific Gravity:**	1.04 gm/ml

8. Toxicological information

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Alcohols, C12-15, ethoxylated	LD50 Oral	Rat	2 g/kg	-
tetrasodium ethylenediaminetetraacetate	LD50 Oral	Rat	10 g/kg	-

Conclusion/Summary Not available

Chronic toxicity

Conclusion/Summary Not available

9. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	Not regulated	-	-	-		-

PG* : Packing group