

# Material Safety Data Sheet

Quat 44

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## 1. Product and company identification

**Product name** Quat 44  
**Code** 2318DN  
**Material uses** Concentrated quaternary disinfectant/cleaner  
**Manufacturer** Essential Industries, Inc.  
P.O. Box 12  
Merton, WI 53056-0012  
Phone: 262-538-1122

**In case of emergency** 1-800-843-6174  
**Validation date** 1/3/2011.  
**Print date** 1/3/2011.  
**Responsible name** Regulatory Affairs Department

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

	3	<b>HAZARD RATING</b>
Flammability	1	4 = Extreme 3 = High
Physical hazards	0	2 = Moderate 1 = Slight
Personal protection	B	0 = Insignificant

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

## 2. Hazards identification

**Emergency overview** Corrosive 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	1 - 5
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. 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 <sub>2</sub> . 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	Pink	Melting/freezing point	0°C (32°F)
Odor	Citrus	Vapor pressure	<4 kPa (<30 mm Hg)
VOC	0.4%	Vapor density	<1 [Air = 1]
pH	10.4 to 11.4	Weight per Gallon:	8.64 lbs./gal.
1% pH:	8.5 to 9.5	Specific Gravity:	1.04 gm/ml

## 8. Toxicological information

### Acute toxicity

#### Product/ingredient name

Alcohols, C12-15, ethoxylated  
tetrasodium ethylenediaminetetraacetate

Result  
LD50 Oral  
LD50 Oral

Species  
Rat  
Rat

Dose  
2 g/kg  
10 g/kg

Exposure  
-  
-

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