FORMULA CHEMICALS

MATERIAL SAFETY DATA SHEET

PRODUCT: FORM QUAT
Date of Issue: December 2013

1. IDENTIFICATION OF CHEMICAL PRODUCT AND SUPPLIER

PRODUCT IDENTIFICATION:
Product Names: Form Quat
Supplier’s Product Code: 3205

Other Names: Nil
Recommended Use: Sanitiser for food & dairy industry.
Formula: Aqueous quaternary ammonium salt solution.

Supplier: Formula Chemicals (N.S.W.) Pty Ltd
Address: 86 Hermitage Rd West Ryde NSW 2114
Telephone Number: (02) 9807 4266
Emergency Telephone: (02) 9807 4266 or Poisons Information 131126
ACN: 001 129 406

2. HAZARDS IDENTIFICATION

HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS
Classified as hazardous according to the criteria of NOHSC.
Hazard Category: C; Corrosive, Xn; harmful
Risk phrases: R34; Causes burns.
Safety phrases: S2; Keep out of reach of children. S45; In case of accident or if you feel unwell, contact a doctor or Poisons Information Centre immediately (show the label where possible). S61; Avoid release to the environment. Refer to special instructions/safety data sheets. S36/37/39; Wear suitable protective clothing, gloves and eye/face protection.

SUSDP Classification: Schedule 5
ADG Classification: Not classified as dangerous goods

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: Nil
Appearance: Straw coloured solution, pleasant characteristic odour
Ingredients:
Chemical Name, CAS No Proportion Risk Phrases
Quaternary ammonium compounds 20 - 30 % R34
Water to make total of 100%

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS)

4. FIRST AID MEASURES

Poison Information Centres in each state can provide additional assistance for scheduled poisons. Phone 131126 from anywhere in Australia
Ingestion:
Never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Rinse mouth thoroughly with water. Do NOT induce vomiting. If victim can swallow, have him/her drink 250 to 300 mL of water to dilute material in stomach. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Repeat administration of water. Obtain medical attention immediately.

**Eye Contact:**
Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 30 minutes, by the clock, holding the eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. If irritation persists, repeat flushing. If available, a neutral saline solution may be used to flush the contaminated eye(s) an additional 30 minutes. Obtain medical attention immediately.

**Skin Contact:**
First aiders avoid direct contact with this chemical. As quickly as possible, flush contaminated area with lukewarm, gently running water for at least 30 minutes, by the clock. Under running water, remove contaminated clothing, shoes, and leather goods (e.g. watchbands, belts). If irritation persists, repeat flushing. Obtain medical attention if effects persist. Completely decontaminate clothing, shoes and leather goods before re-use or discard.

**Inhalation:**
Remove source of contamination or move victim to fresh air. Obtain medical advice if effects persist.

**Other First Aid:**
Provide general supportive measures (comfort, warmth, rest). Consult a physician and/or the nearest Poison Control Centre for all exposures except minor instances of inhalation contact.

**Notes to physician:**
Treat symptomatically as for quaternary ammonium compounds.

### 5. FIRE FIGHTING MEASURES

**Specific hazards:**
Non-combustible material.

**Fire fighting further advice:**
Not combustible. Decomposes on heating (after evaporation of water) emitting toxic fumes. Fire fighters to wear self contained breathing apparatus if risk of exposure to decomposition products.

**Suitable Extinguishing media:**
Water fog (or if unavailable fine water mist or spray), foam, dry agent (carbon dioxide, dry chemical powder)

### 6. ACCIDENTAL RELEASE MEASURES

**Small Spills:** Slippery when spilt. Wear personal protective equipment. Contain using sand or diatomaceous earth. Collect and seal in properly labeled drums. Wash remaining area with large volumes of water.

**Large Spills:**
PRECAUTIONS Restrict access to area. Clear area of unprotected personnel. Provide adequate protective equipment and ventilation. Remove chemicals which can react with the spilled material. Spills are slippery.
CLEANUP Contain spill or leak. Do not allow entry into sewers or waterways. Spilled solutions should be contained by dyking with inert material, such as sand or earth. Solutions can be recovered or carefully diluted with water and deactivated with anionic detergents. (Consult supplier for advice)
DISPOSAL Federal, state and local regulations should be reviewed prior to disposal. May be possible to deactivate, dilute and flush the material into a sewer. May be possible to atomise dilute solutions in an approved combustion chamber. Harmful to aquatic life in high concentrations.

### 7. HANDLING AND STORAGE

**HANDLING** Avoid generating mist or spray. Label containers. Keep containers closed when not in use. Empty containers may contain residues which are hazardous. Use smallest possible amounts in designated areas with adequate ventilation. Have emergency equipment (for fires, spills, leaks, etc.) readily available.

**STORAGE CONDITIONS** Use corrosion-resistant structural materials and lighting and ventilation systems in the storage area. Store in suitable labelled containers. Keep containers tightly closed when not in use and when empty. Protect from damage. Containers made of plastic or nickel alloys are preferred. Storage tanks should be above ground and surrounded with dykes capable of holding entire contents. Limit quantity of material in storage. Restrict access to storage area. Post warning signs when appropriate. Keep storage area separate from populated work areas. Inspect periodically for deficiencies such as damage or leaks.
8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards: No standards set by NOHSC Australia.

Engineering Controls:
Engineering control methods to reduce hazardous exposures are preferred. General methods include mechanical ventilation, (dilution and general exhaust), process or personnel enclosure, control of process conditions and process modification (e.g. substitution of a less hazardous material). Administrative controls and personal protective equipment may be also required. Use a corrosion-resistant ventilation system separate from other exhaust ventilation systems. Exhaust directly to the outside. Use local exhaust ventilation, and process enclosure if necessary, to control airborne spray / mists. Supply sufficient air to make up for air removed by exhaust systems.

Personal Protection:

**RESPIRATORY PROTECTION**: If engineering controls and work practices are not effective in controlling exposure to this material, then wear suitable personal protective equipment including approved respiratory protection.

**EYE/FACE PROTECTION**: Splash proof chemical safety goggles. A face shield may also be necessary.

**SKIN PROTECTION**: Impervious gloves, coveralls, boots and/or other resistant protective clothing. Have a safety shower/eye-wash fountain readily available in the immediate work area.

**PERSONAL PROTECTION COMMENTS**: Remove contaminated clothing promptly. Keep contaminated clothing in closed containers. Discard or launder before rewearring. Inform laundry personnel of contaminant's hazards. Do not eat, drink or smoke in work areas. Wash hands thoroughly after handling this material. Maintain good housekeeping.

9. PHYSICAL & CHEMICAL PROPERTIES

Appearance: Straw colored solution.
Odour threshold: No data
Specific Gravity: approx 1
Flash Point: Non-combustible (does not burn)
Flammability limits: Non-flammable
pH: 6 -8
Solubility in water: Completely soluble

10. STABILITY AND REACTIVITY

Reactivity Data:

STABILITY: Stable
INCOMPATIBILITY: Deactivated by anionic detergents.
HAZARDOUS DECOMPOSITION PRODUCTS: None.
HAZARDOUS POLYMERISATION: Will not occur.

Fire/Explosion Hazard:
Will not support combustion.

11. TOXICOLOGICAL INFORMATION

Acute Effects:

Ingestion:
May cause local irritation to the gastro-intestinal tract causing vomiting and abdominal pain to occur.

Eye contact:
Corrosive. Sprays and mists can cause severe eye irritation.

Skin contact:
Corrosive. Irritation and de-fatting effect. Repeated or prolonged skin contact may lead to irritant contact dermatitis.

Inhalation:
Inhalation of mists or aerosols may produce respiratory irritation.

Long term Effects: No data

Toxicity Data:
Toxicity for 100% cetyltrimethylammonium bromide - Oral LD50(rat): 410 mg/kg
12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

13. DISPOSAL CONSIDERATIONS

Refer to State Land Waste Management Authority. Decontaminate empty containers before disposal, by triple rinsing with water, using rinse water in further processing or neutralize rinse water.

14. TRANSPORT INFORMATION

Not classified as Dangerous Goods according to the ADG Code.

15. REGULATORY INFORMATION

Classified as hazardous according to the criteria of NOHSC, Schedule 5 poison according to SUSDP.

R-phrases: R34; Causes burns.

S-phrases: S2; Keep out of reach of children. S45; In case of accident or if you feel unwell, contact a doctor or Poisons Information Centre immediately (show the label where possible). S61; Avoid release to the environment. Refer to special instructions/safety data sheets. S36/37/39; Wear suitable protective clothing, gloves and eye/face protection.

16. OTHER INFORMATION

References:

Contact Point: Quality Assurance Manager  Tel (02) 9807 4266

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