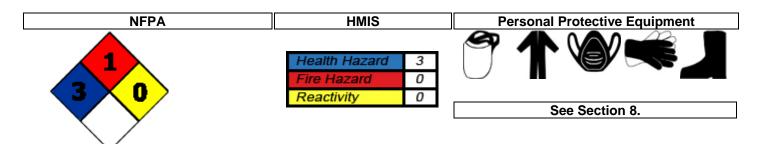




MATERIAL SAFETY DATA SHEET



1. CHEMICAL PRODUCT AI	ND COMPANY IDENTIFICATION		
Product code:	B2877		
Product Name:	BENZYLDIMETHYLTETRADECYLAMMONIUM CHLORIDE		
Chemical Name:	Ammonium, benzyldimethyltetradecyl-, chloride		
Synonyms:	Alkyl dimethylbenzyl ammonium chloride (100% C14) Arquad DM14B-90 Benzenemethanaminium, N,N-dimethyl-N-tetradecyl-, chloride (9CI) Nissan cation M2-100 Quarton 14 BCL Tetradecyl-dimethyl-benzylammonium chloride MYRISTALKONIUM CHLORIDE		
Recommended use:	Detergents. Surfactant. Germacide or biocide in cooling water systems, swimming pools, disinfectant cleaners, sanitisers, deodorant blocks, and for industrial plant, hospital and farm use.		
CAS #:	139-08-2		
Formula:	C23-H42-CI-N		
RTECS #	BO7150000		
CI#:	Not available		
Supplier:	Spectrum Chemicals and Laboratory Products, Inc. 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000		
Emergency Telephone Number:	CHÉMTREC: 1-800-424-9300		
Contact Person:	Martin LaBenz (West Coast)		
Contact Person:	Chris Terpak (East Coast)		

2. HAZARDS IDENTIFICATION

Product code: B2877

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER CORROSIVE!. The product causes burns of eyes, skin and mucous membranes.

Odor:Physical state:Appearance:Color:No information availableSolid.Powder. Crystalline powder.White.

OSHA Regulatory Status This material is considered hazardous by the OSHA Hazard Communication

Standard (29 CFR 1910.1200)

POTENTIAL HEALTH EFFECTS

Principal Routes of Exposure:

Skin. Inhalation. Ingestion.

Acute Potential Health Effects:

Skin Contact:

Causes skin burns.

Eye Contact:

Causes eye burns.

Inhalation:

Causes chemical burns to the respiratory tract.

Ingestion:

Causes burns. Can burn mouth, throat, and stomach.

Chronic Potential Health Effects:

Target Organs: No information available

Carcinogen Status: No information available

Mutagenic Effects: No information available

Teratogenic Effects: No information available

Aggravated Medical Conditions: No information available

See Section 11 for additional Toxicological Information

POTENTIAL ENVIRONMENTAL EFFECTS

No information available

Product code: B2877

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Benzyldimethyltetradecylammonium Chloride	139-08-2	100

4. FIRST AID MEASURES

General Advice: Poison information centres in each State capital city can provide additional

assistance for scheduled poisons (13 1126). Ensure that medical personnel are aware of the material(s) involved and take precautons to protect themselves. First

aider needs to protect himself.

Skin Contact: Wash off immediately with soap and plenty of water. Continue flushing with plenty of

water for at least 15 minutes. Remove all contaminated clothes and shoes. Immediate medical attention is required. Call a physician immediately.

Eye Contact: Flush eye with water for 15 minutes. Immediate medical attention is required. Call a

physician immediately.

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial

respiration. WARNING! It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required. Call a physician immediately.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Immediate medical attention is required. Call a physician or

Poison Control Centre immediately.

Notes to Physician: Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flammable Properties

Product code: B2877

Flashpoint (°C/°F):	No information available.		
Tested according to: Not applicable	e		
Lower Explosion Limit (%):	No information available		
Upper Explosion Limit (%):	No information available		

Autoignition Temperature (°C/°F): No information available

Suitable Extinguishing Media: Carbon dioxide (CO2). Dry chemical. Water spray mist or

foam. Alcohol-resistant foam.

Unsuitable Extinguishing Media: No information available.

Hazardous Combustion Products: Carbon oxides, Nitrogen oxides, Hydrogen chloride,

Ammonia, Hydrogen cyanide

Specific hazards: May be combustible at high temperatures. When heated to

decompositon it may produce corrosive and/or toxic fumes. Fire may produce irritating, corrosive and/or toxic gases.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

Specific Methods:

Water mist may be used to cool closed containers. For fires involving tanks or car/trailer load, cool containers with flooding quantities of water until well after the fire is out. Dike fire-control water for later disposal; do not scatter the material.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Remove all sources of ignition. Avoid dust formation.

Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not let product enter drains. Do not flush into surface water or sanitary sewer system. Prevent entry into waterways, sewers, basements or confined areas.

Methods for Cleaning Up:

Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Handling

Technical Measures/Precautions:

Use only in area provided with appropriate exhaust ventilation. Keep away from incompatible materials.

Safe Handling Advice:

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Keep away from heat and sources of ignition. Do not ingest. Do not breathe vapours/dust. Handle in accordance with good industrial hygiene and safety practice.

Storage

Technical Measures/Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store in a segrated and approved area. Store away from incompatible materials.

Incompatible Products:

Oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure:

Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protective Equipment

Eye protection: Face-shield.

Product code: B2877 Product name: 4/10

Skin and body protection: Chemical resistant protective suit. Gloves.

Wear respirator with dust filter. Respiratory protection:

Hygiene measures: Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke.

Wash hands before breaks and immediately after handling the product.

National occupational exposure limits

United States

U.S Occupational Exposure Limits: Not determined

Canada

Canada Occupational Exposure Limits: Not determined

Australia and Mexico

Occupational Exposure Limits for Australia and Mexico: Not determined

9. PHYSICAL AND CHEMICAL PROPERTIES

Color: Physical state: Appearance: Solid. Powder. Crystalline powder. White.

Molecular weight: Odor: **Taste**

No information available. No information available 368.05

Flash point (°C): Lower Explosion Limit (%): **Upper Explosion Limit (%):** Not determined No information available No information available

Autoignition Temperature (°C/°F): pH:

Boiling point/range(°C/°F): No information available No information available No information available

Melting point/range(°C/°F): Decomposition temperature(°C/°F): Specific gravity:

56-62 °C/132.8-143.6 °F No information available No information available

Bulk density: Vapor pressure @ 20°C (kPa): Density (g/cm3):

No information available No information available No information available

Vapor density: VOC content (g/L): **Evaporation rate:** No information available No information available No information available

Partition coefficient Odor threshold (ppm): Miscibility:

No information available No information available (n-octanol/water):

1.81

Solubility:

Sparingly soluble in water Solubility in Water: >1000 mg/L

10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions

Conditions to avoid: Heat. Avoid dust formation. Dust may form explosive mixture in air. Fine dust

dispersed in air in sufficient concentrations, and in the presence of an ignition source

is a potential dust explosion hazard.

Materials to avoid: Strong oxidising agents.

Product code: B2877 **Product name:** BENZYLDIMETHYLTETRADECYLAMM ONIUM CHLORIDE

Hazardous decomposition

products:

When heated to decomposition it emits very toxic fumes. Carbon monoxide. Carbon dioxide. Nitrogen oxides (NOx). Hydrogen chloride gas. Ammonia. Hydrogen cyanide

dioxide. Nitrogen oxides (NOx). Hydrogen chionde gas. Amin budrograpia acid)

(hydrocyanic acid).

Possibility of Hazardous

Reactions:

No information available

Polymerization: Hazardous polymerisation does not occur

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component Information

Benzyldimethyltetradecylammonium Chloride - 139-08-2

LD50/oral/rat = No information available

LD50/oral/mouse = No information available

LD50/dermal/rabbit = Not determined

LD50/dermal/rat = No information available

LC50/inhalation/rat = No information available

LC50/inhalation/mouse = No infomaton available

Product Information

LC50/inhalation/rat = No information available
LC50/Inhalation/mouse = No information available
LD50/dermal/rabbit = No information available
LD50/dermal/rat = Not information available
LD50/oral/rat = No information available
LD50/oral/mouse = No information available

Local Effects

Skin irritation: Severe skin irritation. Causes burns.

Eye irritation: Severe eye irritation. Causes burns.

Inhalation: Causes chemical burns to the respiratory tract.

Ingestion: Causes digestive or gastrointestinal tract burns.

Sensitization: No information available

Chronic Toxicity

Chronic Toxicity No information available

Carcinogenic effects: Not considered carcinogenic

Mutagenic Effects: No information available

Product name:
BENZYLDIMETHYLTETRADECYLAMM
ONIUM CHLORIDE

Reproductive Effects: No information available **Teratogenic Effects:** No information available **Target Organs:** No information available

12. ECOLOGICAL INFORMATION

ECOTOXICITY

Toxicity to terrestrial and aquatic plants and animals: Information given is based on data on the components and

the ecotoxicology of similar products

Ecotoxicity effects: May cause long-term adverse effects in the aquatic environment.

Aquatic toxicity:

No information available **Mobility:** No information available Persistence and degradability: Bioaccumulative potential: No information available

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Benzyldimethyltetradecylammonium	None	None	None	None
Chloride				

14. TRANSPORT INFORMATION

DOT

UN-No: 1759

Proper Shipping Name: Corrosive solid, n.o.s. (benzyldimethyltetradecylammonium chloride)

Hazard Class: 8 **Packing Group:** None

Subsidiary Risk: Not applicable No data available Marine Pollutant:

ERG No:

DOT RQ (lbs): No information available

Symbol(s): G

TDG (Canada)

Proper Shipping Name: Corrosive solid, n.o.s. (benzyldimethyltetradecylammonium chloride)

UN-No: UN1759

8 **Hazard Class: Packing Group:** Ш

Subsidiary Risk: No information available **Description:** No information available

Product code: B2877 **Product name:** BENZYLDIMETHYLTETRADECYLAMM **ADR**

Proper Shipping Name: Corrosive solid, n.o.s. (benzyldimethyltetradecylammonium chloride)

UN-No: UN1759

Hazard Class: 8
Packing Group: |||

Subsidiary Risk:No information availableClassification Code:No information availableDescription:No information availableCEFIC Tremcard No:No information available

IMO / IMDG

Proper Shipping Name: Corrosive solid, n.o.s. (benzyldimethyltetradecylammonium chloride)

UN-No: UN1759

Hazard Class: 8

Subsidiary Risk: No information available

Packing Group:

Description:No information availableIMDG Page:No information availableMarine Pollutant:No information available

EMS: F-A

MFAG: No information available

Maximum Quantity: No information available

RID

Proper Shipping Name: Corrosive solid, n.o.s. (benzyldimethyltetradecylammonium chloride)

UN-No: UN1759

Hazard Class: 8
Packing Group: III

Subsidiary Risk:
Classification Code:
Description:
No information available
No information available

ICAO

UN-No: UN1759

Hazard Class: 8

Proper Shipping Name: Corrosive solid, n.o.s. (benzyldimethyltetradecylammonium chloride)

Packing Group:

Subsidiary Risk: No information available Description: No information available

IATA

Proper Shipping Name: Corrosive solid, n.o.s. (benzyldimethyltetradecylammonium chloride)

UN-No: UN1759

Hazard Class: 8
Packing Group: |||

Subsidiary Risk: No information available

ERG Code: 8L

Description: No information available

15. REGULATORY INFORMATION

International Inventories

Product code: B2877

Components	U.S. TSCA	Philippines (PICCS)	KOREA KECL	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Benzyldimethyltetradecylammonium Chloride	Present	Present	KE-11868	3-2694	Present	Present	205-352-0

U.S. Regulations

California Prop. 65: Safe Drinking Water and Toxic Enforcment Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	Carcinogen	Developmental Toxicity		Female Reproductive Toxicity:
Benzyldimethyltetradecylammonium Chloride	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

	Substances and their		Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Benzyldimethyltetradecyl	None	None	None	None	None
ammonium Chloride					

U.S. TSCA

•	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Benzyldimethyltetradecylammonium Chloride	Not Applicable	Not Applicable

Canada

WHMIS hazard class:

E Corrosive material

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Inventory

Components	Canada (DSL)	Canada (NDSL)
Benzyldimethyltetradecylammonium	Present	Not Listed
Chloride		

EU Classification

R -phrase(s)

R34 - Causes burns.

Product code: B2877

R53 - May cause long-term adverse effects in the aquatic environment.

S -phrase(s)

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S45 - In case of accident or if you feel unwell, seek medical advice 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.

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Contains: Benzyldimethyltetradecylammonium Chloride

Indication of danger:

Product code: B2877

C - Corrosive.

C



16. OTHER INFORMATION

The MSDS format complies with ANSI Z400.1-2004 standards.

Preparation Date 28-Sep-2010

Reason for revision: Not applicable

Prepared by: Sonia Owen

Literature reference: No information available

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. The physical properties reported in this MSDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.