Material Safety Data Sheet

SECTION 1. IDENTIFICATION OF PRODUCT AND MANUFACTURER

Distributor: McKinley Resources, Inc.
Address: PO Box 810472, Dallas, TX 75381
Emergency Phone: 972-620-9730
Emergency Phone No.: Chem-Tel 800-255-3924
Trade Name: Dicetyldimonium Chloride
INCI Name: Dicetyldimonium Chloride
Issue Date: April 30, 2010

SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterization: Dimethyl di-(C12-18) ammonium chloride in propylene glycol
Usage: Organic conditioner for cosmetic formulations

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS No.</th>
<th>EINECS</th>
<th>Symbol(s)</th>
<th>R-Phrase(s)</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quaternary ammonium compounds, di-C12-18-alkyl(dimethyl, chlorides)</td>
<td>68391-05-9</td>
<td>289-924-1</td>
<td>C</td>
<td>34</td>
<td>&gt;50 - &lt;70 %</td>
</tr>
</tbody>
</table>

SECTION 3. HAZARDS IDENTIFICATION

Corrosive
Risk advice to man and the environment: Causes burns.

SECTION 4. FIRST AID MEASURES

General Advise: Remove contaminated, soaked clothing immediately and dispose of safely.
Inhalation: Remove person to fresh air and keep calm. In the event of symptoms, seek medical attention.
Skin Contact: In case of skin contact, wash off immediately with plenty of water. Consult a physician if skin irritation persists.
Eye Contact: In case of contact with eyes, rinse thoroughly with water for at least 15 minutes. Seek medical attention.
Ingestion: Thoroughly clean mouth with water. Seek immediate medical attention.

Notes to Physician:
Symptoms: The following symptoms may occur: gastrointestinal complaints.
Treatment: When swallowed, stomach should be pumped out under addition of Dimethicone (anti-foam agent).

SECTION 5. FIRE-FIGHTING MEASURES
Suitable Extinguishing Media: Foam, carbon dioxide, dry powder, water spray.

Extinguishing Media Which Must Not be Used for Safety Reasons: Full water jet

Special Hazards from the Substance Itself, its Combustion Products or from its Vapors: In the event of fire the following can be released:
- Carbon dioxide, carbon monoxide
- Nitrogen Oxides
- Hydrogen Chloride

Special Protective Equipment for Fire-fighters: Do not inhale explosion and/or combustion gases.
Use self-contained breathing apparatus and wear protective suit.

Further Information: Fire residues and contaminated fire-fighting water must be disposed of in accordance with local regulations. Cool endangered containers with water spray jet.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: High risk of slipping due to leakage/spillage of product.
Use personal protective equipment (See Section 8).

Environmental Precautions: Do not allow to enter drains or waterways.
Do not discharge into the subsoil/soil.

Method for Clean-up: Take up with absorbent material (ex. sand, universal binder) and place in a appropriate waste container.
Dispose of absorbed material in accordance with all federal, state and local regulations.

SECTION 7. HANDLING AND STORAGE

Handling: When working with the product, vapors/aerosols may be evolved.
Local exhaust and ventilation are recommended.

Storage: Keep container tightly closed in a cool, well-ventilated place.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal Protective Equipment
General Protective Measures: Do not inhale gases/vapors/aerosols.

Hygiene Measures: Do not eat, drink or smoke when working.
Remove soiled clothing immediately.
Wash hands before breaks and after work.

Respiratory Protection: In case of formation of vapors/aerosols, use a respiratory mask with combination filter A-P2.

Hand Protection: PVC gloves
Eye Protection: Goggles or face shield
Skin and Body Protection: Light protective clothing.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquid
Color: Yellow
Odor: Characteristic
Boiling Point: Approx. 100°C
Flash Point: > 93°C Method: DIN EN 22719 (DIN 51758)
Autoignition temperature: Not measured
Lower Explosion Limit: Not measured
Upper Explosion Limit: Not measured
Specific Gravity (@21.1°C): 0.91
Water Solubility: Soluble
pH: 6.0 – 9.0

Further Information: Information given for the boiling point refer to the used solvent component.

SECTION 10. STABILITY AND REACTIVITY

Thermal Decomposition: Not measured
Hazardous Reactions: No hazardous reactions with proper storage and handling.
Hazardous Decomposition Products: None with proper storage and handling.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity: LD50 > 2,000 mg/kg (Rat)

Skin Irritation: Corrosive – undiluted product (Rabbit)

Eye Irritation: Corrosive – undiluted product (Rabbit)
Irritant – 5% solution (Rabbit)

Note: Causes burns.

SECTION 12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)
Biological Degradability: 90 – 92%

Further Ecological Information:

Note: The product is considered to be a water pollutant (German law).
The product is completely biologically degradable.
Do not allow to enter soil, waterways or waste water canal.

SECTION 13. DISPOSAL CONSIDERATIONS

P.O. Box 810472 • Dallas, Texas 75381 • 972. 620. 9730 • Fax: 972. 421. 1860
Product: Dispose of product in accordance with all federal, state and local regulations.
Contaminated Packaging: If the contaminated containers are recycled or disposed of, the receiver must be informed about possible hazards.

### SECTION 14. TRANSPORT INFORMATION

#### Land Transport

<table>
<thead>
<tr>
<th>ADR:</th>
<th>Class 8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Packaging Group:</td>
<td>III</td>
</tr>
<tr>
<td>Orange Plate:</td>
<td>Hazard no. 80</td>
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<tr>
<td></td>
<td>Substance no. 3267</td>
</tr>
<tr>
<td>Description of Goods:</td>
<td>3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.</td>
</tr>
<tr>
<td>Hazard Release:</td>
<td>Dimethyl dialkyl ammonium chloride</td>
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<tr>
<td>Label:</td>
<td>8 corrosive substance</td>
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<td>EmS:</td>
<td>F-A-S-B</td>
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<td>Correct Technical Name:</td>
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### SECTION 15. REGULATORY INFORMATION
United States
SARA Title III:
311/312 Hazard Categories: Fire: No Reactivity: No Acute: Yes
313 Reportable Ingredients: This product contains < 0.03% Methyl Chloride (CAS# 74-87-3)
TSCS: All ingredients are listed in TSCA inventory or comply with the TSCA Polymer
Exemption criteria per 40 CFR 723.

California Prop. 65: This product does not contain any substance(s) which are defined by the State of
California ro cause cancer, birth defects or other reproductive effects.

Canada:
WHMIS: Non-WHMIS
All intentional ingredients are listed in the DSL or have been notified pursuant to
NSN regulations.

Hazardous Components Quaternary ammonium compounds, di-C12,18-alkyldimethyl, chlorides

Which must be listed on the label:
EINECS: 269-924-1
R-phrase(s): 34 Causes burns
S-phrase(s): 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical
28 After contact with skin, wash immediately with plenty of water.
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
45 In case of accident or if you feel unwell, seek medical advice immediately
(show the label where possible).

Other Regulations: Special local regulations must be adhered to when using products containing irritating or
corrosive substances.

SECTION 16. OTHER INFORMATION

HMIS:
Fire 1
Health 3
Reactivity 0
Protection 0

History:
Original Issue: October 27, 1996
Revision 1: June 5, 2009
Revision 2: April 30, 2010

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