SAFETY DATA SHEET
ELECTROLYTIC CELL CONNECTION COMPOUND - Chloralkali grade

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier
Product name: ELECTROLYTIC CELL CONNECTION COMPOUND - Chloralkali grade
Product No.: E3C-CA10K, EE3C-CA10K, EE3C-CA35SL, ZE

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses: Protection compound
Uses advised against: At this moment in time we do not have information on use restrictions. They will be included in this safety data sheet when available.

1.3. Details of the supplier of the safety data sheet
Supplier: ELECTROLUBE. A division of HK WENTWORTH LTD
ASHBY PARK, COALFIELD WAY,
ASHBY DE LA ZOUCH, LEICESTERSHIRE
LE65 1JR
UNITED KINGDOM
+44 (0)1530 419600
+44 (0)1530 416640
info@hkw.co.uk

1.4. Emergency telephone number
+44 (0)1530 419600 between 8.30am - 5.00pm GMT Mon – Fri

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture
Classification (EC 1272/2008)
Physical and Chemical: Not classified.
Hazard: Not classified.
Human health: Not classified.
Environment: Not classified.

Classification (1999/45/EEC)
Not classified.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

2.2. Label elements
Label In Accordance With (EC) No. 1272/2008
No pictogram required.

Supplemental label information
EUH208: Contains N,N-bis(2-ethylhexyl)-4-methyl-1H-benzotriazole-1methylamine. May produce an allergic reaction.

2.3. Other hazards
Not Classified as PBT/vPvB by current EU criteria.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures
### A MIXTURE OF ISOMERS OF: C7-9-ALKYL 3-(3,5-DI-TRANS-BUTYL-4-HYDROXYPHENYL)PROPIONATE

<table>
<thead>
<tr>
<th>CAS-No.: 125643-61-0</th>
<th>EC No.: 406-040-9</th>
</tr>
</thead>
</table>

#### Classification (EC 1272/2008)
- Aquatic Chronic 4 - H413

#### Classification (67/548/EEC)
- R53

#### N,N-bis(2-ethylhexyl)-4-methyl-1H-benzotriazole-1methylamine

<table>
<thead>
<tr>
<th>CAS-No.: 80584-90-3</th>
<th>EC No.: 279-503-4</th>
</tr>
</thead>
</table>

#### Classification (EC 1272/2008)
- Not classified.

#### Classification (67/548/EEC)
- Xi; R38.
- N; R51/53.
- R43.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

### Composition Comments

Ingredients not listed are classified as non-hazardous or at a concentration below reportable levels.

### SECTION 4: FIRST AID MEASURES

#### 4.1. Description of first aid measures

##### Inhalation

Not relevant

##### Ingestion

Rinse mouth thoroughly. Drink plenty of water. Get medical attention.

##### Skin contact

Wash the skin immediately with soap and water. Get medical attention if irritation persists after washing.

##### Eye contact

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

#### 4.2. Most important symptoms and effects, both acute and delayed

##### Skin contact

Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat Symptomatically.

### SECTION 5: FIREFIGHTING MEASURES

#### 5.1. Extinguishing media

##### Extinguishing media

This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

#### 5.2. Special hazards arising from the substance or mixture

##### Hazardous combustion products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

##### Unusual Fire & Explosion Hazards

No unusual fire or explosion hazards noted.

##### Specific hazards

The product is non-combustible. If heated, harmful vapours may be formed.

#### 5.3. Advice for firefighters

##### Special Fire Fighting Procedures

No specific fire fighting procedure given.

##### Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.
SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Avoid release to the environment. Do not discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Absorb in vermiculite, dry sand or earth and place into containers. Flush with plenty of water to clean spillage area.

6.4. Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet. See section 11 for additional information on health hazards. For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid spilling, skin and eye contact.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container. Storage Class Unspecified storage.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Ingredient Comments
No exposure limits noted for ingredient(s).

8.2. Exposure controls

Process conditions
Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station.

Engineering measures
All handling to take place in well-ventilated area.

Hand protection
Use suitable protective gloves if risk of skin contact. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material. Gloves should conform to EN374

Eye protection
If risk of splashing, wear safety goggles or face shield. EN166

Other Protection
Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures
DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

Environmental Exposure Controls
Keep container tightly sealed when not in use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Grease</td>
</tr>
<tr>
<td>Colour</td>
<td>Cream</td>
</tr>
<tr>
<td>Solubility</td>
<td>Insoluble in water</td>
</tr>
</tbody>
</table>
ELECTROLYTIC CELL CONNECTION COMPOUND - Chloralkali grade

Relative density 0.85 @ 20 °c

9.2. Other information

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity
There are no known reactivity hazards associated with this product.

10.2. Chemical stability
Stable under normal temperature conditions.

10.3. Possibility of hazardous reactions
Not known.
Hazardous Polymerisation
Will not polymerise.

10.4. Conditions to avoid
Avoid excessive heat for prolonged periods of time.

10.5. Incompatible materials
Materials To Avoid
No specific, or groups of materials are likely to react to produce a hazardous situation.

10.6. Hazardous decomposition products
Fire creates: Carbon monoxide (CO). Carbon dioxide (CO2).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxicological information
There is no data on the product itself.

Other Health Effects
This substance has no evidence of carcinogenic properties.

Inhalation
No specific health warnings noted.

Ingestion
Irritating. May cause nausea, stomach pain and vomiting.

Skin contact
The product contains a small amount of sensitising substance which may provoke an allergic reaction among sensitive individuals after repeated contact.

Eye contact
Irritating and may cause redness and pain.

Health Warnings
No specific health warnings noted. EYES, NOSE AND MOUTH. Repeated exposure may cause chronic eye irritation. SKIN. Mild dermatitis, allergic skin rash. Defatting, drying and cracking of skin.

Toxicological information on ingredients.

Styrene-Ethylene Copolymer (CAS: 68648-89-5)
Benzamine, N phenyl, reaction product with 2,4,4 trimethylpentene (CAS: 68411-46-1)

Acute toxicity:
Acute Toxicity (Oral LD50)
> 2000 mg/kg Rat

Acute Toxicity (Dermal LD50)
> 2000 mg/kg Rat
SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity
Not regarded as dangerous for the environment.

12.1. Toxicity

Ecological information on ingredients.

**Benzamine, N phenyl, reaction product with 2,4,4 trimethylpentene (CAS: 68411-46-1)**

**Acute Toxicity - Fish**
LC50 96 hours > 71 mg/l Brachydanio rerio (Zebra Fish)
**Acute Toxicity - Aquatic Invertebrates**
EC50 48 hours 51 mg/l Daphnia magna
**Acute Toxicity - Aquatic Plants**
EC50 72 hours > 100 mg/l Scenedesmus subspicatus

**N,N-bis(2-ethylhexyl)-4-methyl-1H-benzotriazole-1methylamine (CAS: 80584-90-3)**

**LC 50, 96 Hrs, Fish mg/l**
1.3
**EC 50, 48 Hrs, Daphnia, mg/l**
1.4
**IC 50, 72 Hrs, Algae, mg/l**
69

12.2. Persistence and degradability

Degradability
There are no data on the degradability of this product.

Ecological information on ingredients.

**Benzamine, N phenyl, reaction product with 2,4,4 trimethylpentene (CAS: 68411-46-1)**

Degradability
The product is not biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential
No data available on bioaccumulation.

12.4. Mobility in soil

Mobility:
The product contains substances, which are insoluble in water and which may spread on water surfaces.

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

SECTION 14: TRANSPORT INFORMATION

General
The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

Road Transport Notes
Not Classified

Rail Transport Notes
Not classified.

Sea Transport Notes
Not classified.

Air Transport Notes
Not classified.
ELECTROLYTIC CELL CONNECTION COMPOUND - Chloralkali grade

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)
Transport Labels
No transport warning sign required.

14.4. Packing group

14.5. Environmental hazards
Environmentally Hazardous Substance/Marine Pollutant
No.

14.6. Special precautions for user
Tunnel Restriction Code (E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
No information required.

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Statutory Instruments

Guidance Notes
Workplace Exposure Limits EH40.

EU Legislation


Authorisations (Title VII Regulation 1907/2006)
No specific authorisations are noted for this product.

Restrictions (Title VIII Regulation 1907/2006)
No specific restrictions of use are noted for this product.

Water hazard classification
WGK 2

15.2. Chemical Safety Assessment
No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Issued By: Helen O'Reilly
Revision Date: APRIL 2013
Revision: 3
SDS No.: 12719
R38 Irritating to skin.
R53 May cause long-term adverse effects in the aquatic environment.
R43 May cause sensitisation by skin contact.
NC Not classified.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
H413 May cause long lasting harmful effects to aquatic life.

Disclaimer
This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.