1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY UNDERTAKING

PRODUCT NAME: EMULSION BREAKER 210

PRODUCT Description: Concentrated Oil Based Demulsifier - NEW FORMULATION MARCH 2005

APPLICATION: BIO DIESEL PRODUCTION

SUPPLIER: Chemiphase Ltd
PO Box 168
Ormskirk
L40 6ZX
Tel: 00 44 1744 886622
Fax: 00 44 1744 886633

EMERGENCY TELEPHONE: (24 HR) 00 44 (0) 1744 886622

2. COMPOSITION INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>NAME</th>
<th>EC No</th>
<th>CAS No</th>
<th>CONTENT</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-BUTOXYETHANOL</td>
<td>203-905-0</td>
<td>111-76-2</td>
<td>8-15%</td>
<td>XnR20/21/22 Xi,R36/38</td>
</tr>
<tr>
<td>XYLENE</td>
<td>215-535-7</td>
<td>1330-20-7</td>
<td>15-22%</td>
<td>R10 Xn, R10/R20/21 Xi, R38 &amp; S16</td>
</tr>
</tbody>
</table>

The Full Text for all R- Phrases are displayed in Section 16

3. HAZARDS IDENTIFICATION

Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes and skin.

CLASSIFICATION: Xn; R20/21/22. Xi;R36/38

4. FIRST AID MEASURES

GENERAL INFORMATION
Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

INHALATION
Move the exposed person to fresh air at once. If respiratory problems, artificial respiration/oxygen. Keep the affected person warm and at rest. Get prompt medical attention.

INGESTION
NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Remove victim immediately from source of exposure. Rinse mouth thoroughly. Promptly get affected person to drink large volumes of water to dilute the swallowed chemical. DO NOT induce vomiting. Get medical attention immediately.

SKIN CONTACT
Remove affected person from source of contamination. Promptly wash contaminated skin with soap or mild detergent and water. Promptly remove clothing if soaked through and wash as above. Get medical attention immediately.

EYE CONTACT
Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eyelids. Continue to rinse for at least 15 minutes and get medical attention.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA
Use: Powder, Carbon dioxide (CO2). Water spray. Foam

SPECIAL FIRE FIGHTING PROCEDURES
Avoid water in straight hose stream; will scatter and spread fire. Use water to keep fire exposed containers cool and disperse vapours. Keep run-off water out of sewers and water sources. Dike for water control.

SPECIFIC HAZARDS
By heating and fire, irritating vapours/gases may be formed.

PROTECTIVE MEASURES IN FIRE
Wear personal protective equipment. Wear self-contained breathing apparatus.
6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS
Wear protective clothing as described in Section 8 of this safety data sheet. Avoid contact with skin and eyes. Provide adequate ventilation.

ENVIRONMENTAL PRECAUTIONS
Do not discharge into drains, watercourses or onto the ground.

SPILL CLEAN UP METHODS
Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Do not contaminate water sources or sewer.

7. HANDLING AND STORAGE

Usage precautions
Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

STORAGE PRECAUTIONS
Store in tightly closed original container in a cool dry well-ventilated place. Use container made of: Stainless steel. Suitable plastic material. Do NOT use container made of: Carbon steel.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>Name</th>
<th>Std</th>
<th>LT - ppm</th>
<th>LT – mg/m³</th>
<th>ST - ppm</th>
<th>ST – mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>XYLENE</td>
<td>OES</td>
<td>50 ppm (Sk)</td>
<td>220 mg/m³ (Sk)</td>
<td>100 ppm(Sk)</td>
<td>441 mg/m³(Sk)</td>
</tr>
<tr>
<td>2-BUTOXYETHANOL</td>
<td>OES</td>
<td>25 PPM(Sk)</td>
<td></td>
<td>50 ppm(Sk)</td>
<td></td>
</tr>
</tbody>
</table>

INGREDIENT COMMENTS
OES = Occupational Exposure Standard. 2 – Butoxyethanol (EGMBE) has a Biological Monitoring Guidance Value. See UK HSE EH40 Table 3

PROTECTIVE EQUIPMENT
Goggles and Gloves

ENGINEERING MEASURES
Provide adequate general and local exhaust ventilation

RESPIRATORY EQUIPMENT
No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists. Wear respiratory protection with combination filter (dust and gas filter).

HAND PROTECTION
Use protective gloves. Rubber, neoprene or PVC. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material. Be aware that the liquid may penetrate the gloves. Frequent change is advisable.

EYE PROTECTION
Wear approved safety goggles.

OTHER PROTECTION
Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

HYGIENE MEASURES
DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap and water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>APPEARANCE</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>COLOUR</td>
<td>Slightly hazy</td>
</tr>
<tr>
<td>ODOUR:</td>
<td>Slight Aromatic</td>
</tr>
<tr>
<td>MELTING POINT (°C)</td>
<td>Pour Point , -20</td>
</tr>
<tr>
<td>Ph, VALUE, DILUTED SOLUTION</td>
<td>6.5-8.5, 5% in water</td>
</tr>
<tr>
<td>FLASH POINT (°C)</td>
<td>25</td>
</tr>
</tbody>
</table>
10. STABILITY AND REACTIVITY

STABILITY
Stable under normal temperature conditions.

CONDITIONS TO AVOID
Avoid heat, flames and other sources of ignition

MATERIAL TO AVOID
Strong oxidising substances. Strong acids

HAZARDOUS DECOMPOSITION PRODUCTS
During fire, toxic gases (CO, CO2) are formed.

11. TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 – LD50 >4000 mg/kg (oral rat)

INHALATION
Harmful by inhalation. In high concentrations, vapours are anaesthetic and may cause headache, fatigue, dizziness and central nervous system effects. Upper respiratory irritation. Vapours may cause headache, fatigue, dizziness and nausea.

INGESTION
Harmful if swallowed. Gastrointestinal symptoms, including upset stomach. May cause nausea, headache, dizziness and intoxication.

SKIN CONTACT
Harmful in contact with skin. Irritating to skin.

EYE CONTACT
Irritating to eyes. Spray and vapour in the eyes may cause irritation and smarting.

Other Health Effects
No sensitising effects known.

12. ECOLOGICAL INFORMATION

ECOTOXICITY
The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

MOBILITY
The product is insoluble in water

BIOACCUMULATION
No data available

DEGRADABILITY
The product is expected to be biodegradable

WATER HAZARD CLASSIFICATION
WGK 1

13. DISPOSAL CONSIDERATIONS

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

DISPOSAL METHODS
Recover and reclaim or recycle, if practical. Do not allow runoff to sewer, waterway or ground. Dispose of waste and residues in accordance with local authority requirements.

WASTE CLASS
For this product, in accordance with the European Waste Catalogue (EWC), a catalogue number cannot be given because the customer has to lay down the purpose first. The catalogue number has to be given according to the local waste removal processes.

14. TRANSPORT INFORMATION

GENERAL
ADR/RID
UN no: 1307
ADR Class: 3
Packing Group: III
Classification code: F1
Shipping name n/a

Labelling: 3  Hazard ID no: 30

IMDG/IMO  UN no: 1307  Class: 3

Packing Group: III  EMS:F-E, S-D

Marine Pollutant: NO  Labelling: 3

IATA/ICAO  UN no: 1307  Class: 3

Packing Group: III  Packing Instructions; 309(p&CA):310(CAO)

Marine Pollutant: NO  Labelling: 3

15. REGULATORY INFORMATION

LABELLING

CONTAINS  2-BUTOXYETHANOL, Xylene

RISK PHRASES

R20/21/22  Harmful by inhalation, in contact with skin and if swallowed
R10  Flammable
R36/38  Irritating to eyes and skin

SAFETY PHRASES

S36/37  Wear suitable protective clothing and gloves
S16  Keep away from sources of ignition—NO SMOKING
S60  This material and its container must be disposed of as hazardous waste
S23  Do not breathe vapour/spray
S26  In case of contact with eyes, rinse immediately with plenty of water and see medical advice
S51  Use only in well-ventilated areas
S24/25  Avoid contact with skin and eyes

UK REGULATORY REFERENCES

Approved Supply List

STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations
Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations.

GUIDANCE NOTES

Occupational Exposure Limits EH40. Approved guide to the classification and labelling of substances and preparations dangerous for supply.
16. OTHER INFORMATION

REVISION COMMENTS
General revision

ISSUED BY
CES

REVISION DATE MARCH 2008
REVISED SDS GENERATED MARCH 2005

RISK PHRASES IN FULL

R10 Flammable
R20/21 Harmful by inhalation and in contact with skin
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed
R36/38 Irritating to eyes and skin
R38 Irritating to skin

DISCLAIMER
The information provided in this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not be considered a warranty or quality specification. The 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 unless specified in the text.