MATERIAL SAFETY DATA SHEET
CONDUCTIVE SILVER ELECTRONIC PASTE

SECTION 1: Identification of the substance / mixture and of the company / undertaking

1.1 Product Identifiers
Product name: CONDUCTIVE SILVER ELECTRONIC PASTE
Brand: DML DM-SIP
Product codes: DM-SIP-2001

1.2 Relevant identified uses of the substance or mixture and uses advised against
Identified uses: Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet
Company: Dycotec Materials Ltd
Unit 12 Star West, Westmead Drive, Westlea, Swindon, Wiltshire SN5 7SW, UK
Telephone: +44 (0) 1788 814025
E-mail address: info@dycotecmaterials.com

1.4 Emergency telephone number
Emergency Phone No.: +44 (0) 7495 248908

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture
Classification (EC 1272/2008)
Acute toxicity, Oral (Category 4), H302
Acute toxicity, Inhalation (Category 4), H332
Eye irritation (Category 2), H319
Skin irritation, Category 2 (H315)
Reproductive toxicity, Category 2 (H361d)
Specific target organ toxicity (single exposure), Category 3 (H336)
Specific target organ toxicity (repeated exposure), Category 2 (H373)
Chronically hazardous to the aquatic environment, Category 3 (H412)

2.2 Label elements
Pictogram

Signal word: Danger
Hazard statements:
H302 + H332 Harmful if swallowed or if inhaled
H319 Causes serious eye irritation.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H361d Suspected of damaging the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403 + P235 Store in a well-ventilated place. Keep cool.
2.3 Other hazards
Possible risk of absorption through the skin of 1-methoxypropan-2-ol and toluene.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures
Hazardous ingredients according to Regulation (EC) No 1272/2008

<table>
<thead>
<tr>
<th>Component / CAS #</th>
<th>EC #</th>
<th>%</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silver</td>
<td>7440-22-4</td>
<td>35-90</td>
<td></td>
</tr>
<tr>
<td>Benzyl Alcohol</td>
<td>100-51-6</td>
<td>1-30</td>
<td>Acute Tox. 4; H302 + H332</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Irrit. 2; H319</td>
</tr>
<tr>
<td>4-Hydroxy-4-</td>
<td>204-626-7</td>
<td>1-10</td>
<td>Flam. Liq. 3; Eye Irrit. 2; H226,</td>
</tr>
<tr>
<td>methylpentan-2-one</td>
<td></td>
<td></td>
<td>H319</td>
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<tr>
<td>123-42-2</td>
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<td></td>
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</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>0.01-2</td>
<td>Flam. Liq. 2 H225 Repr. 2</td>
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<td></td>
<td></td>
<td></td>
<td>H361d Asp. Tox. 1 H304</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>STOT RE 2 H373 Skin Irrit. 2</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>H315 STOT SE 3 H336</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aquatic Chronic 3 H412</td>
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<tr>
<td>1-methoxy-2-propanol</td>
<td>203-539-1</td>
<td>0.01-2</td>
<td>Flam. Liq. 3 H226 STOT SE 3</td>
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<tr>
<td>107-98-2</td>
<td></td>
<td></td>
<td>H336</td>
</tr>
</tbody>
</table>

See Section 16 for full text of H phrases.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures
Inhalation
Remove to fresh air. If breathing is difficult, give oxygen. Apply artificial respiration if patient is not breathing. Obtain medical attention immediately. DO NOT induce the patient to vomit, medical advice is required.

Ingestion
If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

Skin contact
Remove contaminated clothing and shoes without delay. Wear impermeable gloves. Wash immediately with plenty of soap and water. Pay particular attention to skin crevices, nail folds, etc. Do not reuse contaminated clothing without laundering. Do not reuse contaminated leatherware. Obtain medical attention.

Eye contact
Rinse thoroughly with plenty of with soapwater for at least 15 minutes. Contact an ophthalmologist.

4.2 Most important symptoms and effects, both acute and delayed
Not applicable

4.3 Indication of any immediate medical attention and special treatment needed
Not applicable

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media
Suitable extinguishing media
Use water spray, alcohol foam, carbon dioxide or dry chemical to extinguish fires. In cases of larger fires, water spray should be used.

5.2 Special hazards arising from the substance or mixture
Burning releases carbon monoxide, carbon dioxide, oxides of nitrogen and traces of hydrogen cyanide. In the event of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire.

5.3 Advice for firefighters
Protective Equipment:
Firefighters, and others exposed, wear self-contained breathing apparatus. Wear full firefighting protective clothing. Do not allow contaminated extinguishing water to enter the soil, ground-water or surface waters.

5.4 Further information
No data available

SECTION 6: ACCIDENTAL RELEASE MEASURES
6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Wipe up with absorbent material (e.g. cloth, fleece) and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Areas containing this material should have fire safe practices and electrical equipment in accordance with applicable regulations and/or guidelines. Standards are primarily based on the material’s flashpoint, but may also take into account properties such as miscibility with water or toxicity. All local and national regulations should be followed. Store in a cool, dry, well ventilated place and keep container tightly closed. Avoid flammable gas mixtures. Take precautionary measures against electrostatic loading - earthing necessary during loading operations.

Storage Temperature: Fridge, 4°C
Storage class (TRGS 510): Non-combustible

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters – Components with workplace control parameters

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Value Form of exposure</th>
<th>Control parameter</th>
<th>Basis</th>
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<tr>
<td>Silver</td>
<td>7440-22-4</td>
<td>TWA</td>
<td>0.1 mg/m³</td>
<td>UK. EH40 WEL – Workplace Exposure Limits</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Remarks Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>0.1 mg/m³</td>
<td>Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values</td>
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<tr>
<td>4-Hydroxy-4-methylpentan-2-one</td>
<td>123-42-2</td>
<td>TWA</td>
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<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>75 ppm 362 mg/m³</td>
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<td>Toluene</td>
<td>108-88-3</td>
<td>TWA</td>
<td>50 ppm 191 mg/m³</td>
<td>UK. EH40 WEL – Workplace Exposure Limits</td>
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<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>10 ppm 384 mg/m³</td>
<td>UK. EH40 WEL – Workplace Exposure Limits</td>
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<tr>
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<td></td>
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<td></td>
<td>Dermal absorption possible</td>
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<tr>
<td></td>
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<td>TWA</td>
<td>50 ppm 191 mg/m³</td>
<td>Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values</td>
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<tr>
<td></td>
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<td>STEL</td>
<td>10 ppm 384 mg/m³</td>
<td>Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values</td>
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<tr>
<td>1-methoxy-2-propanol</td>
<td>107-98-2</td>
<td>TWA</td>
<td>100 ppm 375 mg/m³</td>
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<td></td>
<td></td>
<td>STEL</td>
<td>150 ppm 560 mg/m³</td>
<td>UK. EH40 WEL – Workplace Exposure Limits</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Dermal absorption possible</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>100 ppm 375 mg/m³</td>
<td>Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>150 ppm 560 mg/m³</td>
<td>Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values</td>
</tr>
</tbody>
</table>

8.2 Exposure Controls
Protective equipment
Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Eye/face protection
Use approved safety glasses with side shields. Eyewear complying with an approved standard should be worn if a risk assessment indicate eye contact is possible. The following protection should be worn: Chemical splash goggles or face shield.

Skin protection
Prevent contamination of skin or clothing when removing protective equipment. Barrier creams may be used in conjunction with the gloves to provide additional skin protection. Wear impermeable gloves and suitable protective clothing.

Hand protection
Use neoprene, nitrile, or rubber gloves to prevent skin contact. Gloves must be inspected prior to use. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Wear protective gloves made of the following material: Nitrile rubber. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. Use proper glove removal technique (without touching glove’s outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Hygiene measures
Do not smoke in work area. Wash hands thoroughly after handling. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke. Contaminated clothing should be placed in a closed container for disposal of decontamination. Warn cleaning personnel of any hazardous properties of the product.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Paste</td>
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<tr>
<td>Colour</td>
<td>Cream Silver</td>
</tr>
<tr>
<td>Odour</td>
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</tr>
<tr>
<td>Odour Threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
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<tr>
<td>Melting / freezing point</td>
<td>No data available</td>
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<td>Initial boiling point and boiling range</td>
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<td>Flash point</td>
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<tr>
<td>Evaporation rate</td>
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<td>Flammability (solid, gas)</td>
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<td>Upper/lower flammability or explosive limits</td>
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<td>Vapour pressure</td>
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<td>Vapour density</td>
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<td>Relative density</td>
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<td>Water solubility</td>
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<td>Decomposition temperature</td>
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<td>Viscosity</td>
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<td>Explosive properties</td>
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<tr>
<td>Oxidizing properties</td>
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</tbody>
</table>

9.1 Other information
No data available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
Heat, flames and sparks. May form peroxides of unknown stability.

10.5 Incompatible materials
Strong oxidizing agents, Strong bases, Strong acids.

10.6 Hazardous decomposition products

Other decomposition products - no data available

In the event of fire - see section 5

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity:
LD50 Oral - Rat - 1,230 mg/kg (Benzyl alcohol)
LD50 Oral - Rat - male - 1,620 mg/kg (Benzyl alcohol)
LD50 Oral - Rat - 2,520 mg/kg (4-Hydroxy-4-methylpentan-2-one)
LC50 Inhalation - Rat - 4 h - > 10 mg/l
LD50 Dermal - Rabbit - 13,500 mg/kg (4-Hydroxy-4-methylpentan-2-one)
LD50 rat, male: 5,580 mg/kg (toluene)
LD50 rat: 4,061 mg/kg (1-methoxy-2-propanol)

Skin corrosion/irritation:
Skin – Rabbit (Benzyl alcohol)
Result: No skin irritation - 24 h
(OECD Test Guideline 404)

Serious eye damage/eye irritation:
Eyes – Rabbit (Benzyl alcohol)
Result: Eye irritation - 24 h
(OECD Test Guideline 405)
Eyes – Rabbit (4-Hydroxy-4-methylpentan-2-one)
Result: Severe eye irritation - 24 h

Respiratory or skin sensitization:
No data available

Germ cell mutagenicity:
No data available

Carcinogenicity
This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

Reproductive toxicity:
NOAEL (parents, generally toxicity): 1875 mg/m³ (toluene)
NOAEL (parents, fertility): 7500 mg/m³
NOAEL (offspring): 1875 mg/m³
Test type: Two-generation study
Species: rat, male/female
Application Route: Inhalative
Dose Levels: 0 - 375 - 1875 - 7500 mg/m³
Test substance: Vapour
Frequency of treatment: 6 hours/day 7 days/week
Method: OECD Test Guideline 416

NOAEL (teratogenicity): 4500 mg/m³ (toluene)
NOAEL (maternal): 2250 mg/m³
NOAEL (developmental toxicity): 2250 mg/m³
Species: rat, female
Application Route: Inhalative
Dose Levels: 0 - 4500 mg/m³
Frequency of treatment: 6 hours/day 7 days/week
Test substance: Vapour
Fetotoxicity has been observed in animal studies.

NOAEL - Parents: 300 ppm (1-methoxy-2-propanol)
NOAEL – F1: 1000 ppm
NOAEL – F2: 1000 ppm
Test type: Two-generation study
Species: rat, male/female
Application Route: Inhalative
Method: OECD Test Guideline 416

NOAEL (teratogenicity): 1500 ppm (1-methoxy-2-propanol)
NOAEL (maternal): 1500 ppm
Species: rat
Application Route: Inhalative
Dose Levels: 0 - 500 - 1500 - 3000 ppm
Frequency of treatment: 6 hours/day (Exposure duration: 10 days (day 6 - 15 p.c.))
Method: OECD Test Guideline 414

**Specific target organ toxicity – single exposure:**
May cause drowsiness or dizziness. (toluene)
May cause drowsiness or dizziness. (1-methoxy-2-propanol)

**Specific target organ toxicity – repeated exposure:**
Route of exposure: Inhalative (toluene)
Target Organs: Central nervous system, auditory system
May cause damage to organs through prolonged or repeated exposure.
Based on available data, the classification criteria are not met. (1-methoxy-2-propanol)

**Aspiration hazard:**
May be fatal if swallowed and enters airways. (toluene)
Based on available data, the classification criteria are not met. (1-methoxy-2-propanol)

**Additional Information:**
Stupor, narcosis (Benzy alcohol)
Central nervous system depression
Liver - Irregularities - Based on Human Evidence
Central nervous system depression, Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness., Blood disorders, Dermatitis, Blurred vision. (4-Hydroxy-4-methylpentan-2-one)
Risk of cutaneous absorption. (1-methoxy-2-propanol)
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**SECTION 12: ECOLOGICAL INFORMATION**

**TOXICITY, PERSISTENCE AND DEGRADABILITY, BIOACCUMULATIVE POTENTIAL, MOBILITY IN SOIL, OTHER ADVERSE EFFECTS**

**HAZARDOUS INGREDIENT TOXICITY DATA**

<table>
<thead>
<tr>
<th>Component / CAS #</th>
<th>Toxicity to Algae</th>
<th>Toxicity to Fish</th>
<th>Toxicity to Water Flea</th>
</tr>
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<tbody>
<tr>
<td>Silver 7440-22-4</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Benzyl Alcohol 100-51-6</td>
<td>No data available</td>
<td>LC50 - Lepomis macrochirous (Bluegill) - 10 mg/l - 96 h</td>
<td>EC50 - Daphnia magna (Water flea) - 55 mg/l - 24 h</td>
</tr>
<tr>
<td>4-Hydroxy-4-methylpentan-2-one 123-42-2</td>
<td>No data available</td>
<td>LC50 - Pimephales promelas (fathead minnow) - 460 mg/l - 96 h</td>
<td>EC50 - Daphnia magna (Water flea) - 230 mg/l - 48 h (OECD Test Guideline 202)</td>
</tr>
<tr>
<td>Toluene 108-88-3</td>
<td>ErC50 134 mg/l endpoint: photosynthesis inhibition</td>
<td>NOEC (Growth inhibition) 1.39 mg/l</td>
<td>NOEC (mortality) 0.74 mg/l</td>
</tr>
<tr>
<td></td>
<td>Species: Chlorella vulgaris (Fresh water algae) Exposure duration: 3 h Test substance: 14C-labelled</td>
<td>Species: Oncorhynus kisutch Exposure duration: 40 d</td>
<td>Species: Ceriodaphnia dubia Exposure duration: 7 d Method: EPA 600/4-91-003</td>
</tr>
<tr>
<td>1-methoxy-2-propanol 107-98-2</td>
<td>ErC50 &gt; 1,000 mg/l Species: Pseudokirchneriella subcapitata (green algae) Exposure duration: 7 d</td>
<td>No data available</td>
<td>No data available</td>
</tr>
</tbody>
</table>

**Persistence and degradability**
Biodegradability Biotic/Aerobic - Exposure time 28 d (Benzyl alcohol)
Result: 92 - 96 % - Readily biodegradable
aerobic Biochemical oxygen demand - Exposure time 7 d
Result: 92 - 96 % - Readily biodegradable
(OECD Test Guideline 301C)

**Bioaccumulative potential**
Biodegradability aerobic - Exposure time 28 d (2-(2-Butoxyethoxy)ethanol)
Result: 91.7 % - Readily biodegradable
(OECD Test Guideline 301B)
Bioconcentration factor (BCF): 90 (toluene)
Species: Leuciscus idus (Golden orfe)
Exposure duration: 3 d at 25 °C
Concentration: 0.05 mg/l
Test substance: 14C-labelled
Bioconcentration factor (BCF): < 100 (1-methoxy-2-propanol)

**Mobility in soil**
Adsorption (toluene)
Medium: Soil
Due to the low n-octanol-water partition coefficient, an adsorption on the soil is not to be expected.
Koc value: 0.2 - 1.0 (1-methoxy-2-propanol)
Highly mobile in soils

**Results of PBT and vPvB assessment**
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**Other adverse effects**
Toxic to aquatic life.

### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods
The company encourages the recycle and reuse of products and packaging, where possible and permitted.

**General Information**
When handling waste, the safety precautions applying to handling of the product should be considered. Do not dump into any sewers, on the ground, or into any body of water. Not to be disposed of together with household waste. Any disposal practice must be in compliance with all local and national laws and regulations. Handle and dispose contaminated packages in the same way as the product itself.

**Disposal methods**
When recycle or reuse is not possible, the company recommends that our products, especially when classified as hazardous, be disposed of by thermal treatment or incineration at approved facilities. All local and national regulations should be followed. For disposal within the European Community, waste codes according to Directive 2008/98/EC should be assigned by the user based on the application for which the product was used.

**Disposal-relevant information**
Do not release directly or indirectly to surface water, ground water, soil or public sewage system.

**Contaminated packaging**
Dispose of as unused product.

### SECTION 14: TRANSPORT INFORMATION

#### 14.1 UN number

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<th>ADR/RID</th>
<th>IMDG</th>
<th>IATA</th>
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<tbody>
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#### 14.2 UN proper shipping name

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**Environmentally Hazardous Substance, Liquid, N.O.S.**

#### 14.3 Transport hazard class(es)

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#### 14.4 Packaging group

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<th>IATA</th>
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#### 14.5 Environmental hazards

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<th>ADR/RID</th>
<th>IMDG Marine pollutant</th>
<th>IATA</th>
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<td>yes</td>
<td>yes</td>
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</tbody>
</table>

#### 14.6 Special precautions for user
No data available

### SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
No data available

#### 15.2 Chemical Safety Assessment
No data available

### SECTION 16: OTHER INFORMATION

Revision Date: 25-Apr-2017
General Information
The information contained herein is, to the best of our knowledge and belief, accurate. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is finished without warranty and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. Since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all applicable local laws and regulations.

Hazard statements in full
H302 + H332  Harmful if swallowed or if inhaled
H319  Causes serious eye irritation.
H315  Causes skin irritation.
H336  May cause drowsiness or dizziness.
H361d  Suspected of damaging the unborn child.
H373  May cause damage to organs through prolonged or repeated exposure.
H412  Harmful to aquatic life with long lasting effects