This safety data sheet has been supplied in accordance with the requirements of Article 31 of Regulation EC No 1907/2006 (the REACH regulation) and the information contained herein is displayed in the order prescribed in Annex II to that regulation, as amended 2010.

Its purpose is to facilitate the carrying out of a risk assessment. Employers are reminded of their duty to carry out such an assessment and subsequently to provide an appropriate working environment, to make available to those who are required to use this product all necessary personal protective equipment and to ensure that such equipment is used.

Date of Issue: 10th May 2016
Version No: 01
Replaces version N/A

Additions and amendments to this SDS.
Despite the fact that this product does not meet the criteria for classification as hazardous laid down in Regulation (EC) 1272/2008 (CLP) and is therefore not subject to the labelling provisions specified therein this SDS has been re-written to reflect the phasing out on 31st May 2015 of Directive 1999/45/EC (CHIP) and its replacement by the CLP regulation. The safety data contained in this version is essentially the same as that contained in the previous version.

SECTION 1. IDENTIFICATION OF THE MIXTURE AND THE COMPANY.

1.1 Product Identifiers.
Trade Name: DeCal 2040E

1.2 Identified uses and uses advised against.

1.2.1 Identified Uses: As a dispersing agent for water-borne coating systems.

1.2.2 Uses advised against: None of the substances contained in this product is subject to authorisation or restriction. The supplier does however advise against uses other than those identified above.

1.3 Details of supplier.
Supplier: Devine Chemicals Ltd., Prospect Business Park, Leadgate, Consett, Co. Durham, DH8 7PW.
Phone: 01207-580101
Fax: 01207-580096
e-mail jim@devinechemicals.co.uk

1.4 Emergency telephone number: 07810-810608 from 0800 to 2000 hours every day.

2. HAZARDS IDENTIFICATION.

2.1 Classification.
This product does not meet the criteria for classification as a hazardous preparation laid down in either EU Directive 1999/45/EC (as amended) or in Regulation (EC) 1272/2008 (CLP).

However, as is the case with all chemical compositions, certain precautionary measures aimed at ensuring the well-being of those who will use this product and at protecting the natural environment against unnecessary pollution must be applied. Precautionary measures appropriate to this product are detailed in the following pages.

Overexposure to this product may cause very slight irritation of the eyes and skin.
Discharge of this product to watercourses or drainage systems may be harmful to the environment. Areas covered by spilled product will be slippery.

2.2 Label Elements
This product is not subject to statutory labelling requirements.
3. COMPOSITION/INFORMATION ON INGREDIENTS.
The ingredients present in this product do not meet the criteria for disclosure in this section nor are they required to be registered in accordance with Article 5 of the REACH regulation.

4. FIRST AID MEASURES
4.1 Description of first aid measures.
General Information: In all cases of doubt or where symptoms persist seek medical attention. Never give anything by mouth to an unconscious person.
Inhalation: The only volatile component of this product is water. Inhalation of vapours will not cause harmful or troublesome symptoms. The need for first-aid measures to be applied is extremely unlikely.
Ingestion: This product does not present any acute toxicity.
Skin Contact: Prolonged or repeated contact may cause slight irritation.
Eye Contact: May cause slight irritation.

4.2 Most important symptoms and effects, both acute and delayed.
Acute: Single exposure to vapours or mist is not likely to be hazardous. Contact with eyes may cause slight irritation. Prolonged or repeated contact with skin may cause mild irritation in some individuals. Not expected to cause significant immediate hazard if spilled.
Delayed effects: None known.

4.3 Indication of any immediate attention ands special treatment needed.
Note to physician: Treat symptomatically.

5. FIRE FIGHTING MEASURES.
Extinguishing media: Suitable Water spray, carbon dioxide, foam, dry chemical powder.
Unsuitable Water jet.

6. ACCIDENTAL RELEASE/SPILLAGE MEASURES.
6.1 Personal Precautions Following Spill.
6.1.1 Non-emergency personnel: Wear recommended personal protective equipment and avoid all forms of contact.
6.1.2 Emergency responders: Evacuate all non-essential personnel from the vicinity of the spill. Remove all sources of ignition. If indoors ventilate the affected area. Mark out the affected area with signs and prevent unauthorised personnel from approaching the scene. If safe to do so turn leaking packages leak-side up in order to minimise leakage. Do not touch the spilled material.
6. ACCIDENTAL RELEASE/SPILLAGE MEASURES (continued)

6.2 Precautions to Protect Environment: Use non-combustible absorbent material such as sand or vermiculite type clay as a dam to prevent spilled material entering drains and watercourses. If spilled material enters drains or watercourses inform the emergency services and the local water authority.

6.3 Spill Clean-up Methods.
6.3.1 Containment: Contain the spillage by use of the absorbent material referred to in Section 6.2.

6.3.2 Clean up: Using the same material that was used to contain the spillage absorb all of the spilled material. Transfer the contaminated absorbent material to clearly marked, sealed containers. Retain for disposal as recommended in Section 13. Scrub the affected area with detergent and water. If possible, collect wash water for disposal as recommended in Section 13. If not possible to collect wash water, flush washings to drain with copious amounts of water.

6.3.3 Any other information: None

6.4 Reference to other sections: See Section 8 for information on selecting personal protective equipment and Section 13 for details of recommended disposal methods.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling.
7.1.1 Safe handling techniques: DO NOT EAT, DRINK OR SMOKE while using this product. Handle only in a manner that minimises the risk of damage to packages and of spillage. Use with adequate ventilation. Avoid contact with eyes, skin and clothing.

7.1.2 Occupational Hygiene: Wash hands thoroughly after working with this substance. Contaminated clothing, including footwear, must be thoroughly laundered/cleaned before re-use.

7.2 Safe Storage: Store away from strong oxidising agents, in sealed, clearly marked containers in an area which is well ventilated, dry and in which the temperature can be maintained between 5°C and 40°C. Avoid storing at temperatures below 0°C. Crystals which may form at temperatures below –5°C will not re-dissolve and the functioning of the product will be greatly impaired.

7.3 Specific end-uses: None requiring special note.

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Control parameters.

| Occupational exposure limits: | None of the ingredients of this product has been assigned a Community Workplace Exposure Limit. However overexposure when handling the product may cause the development of the symptoms mentioned in Section 4. |

8.2 Exposure controls.
8.2.1 Appropriate engineering controls: Good general ventilation ought to be adequate but may need to be supplemented by local exhaust ventilation if use within a confined space is necessary.

8.2.2 Personal protection.
8.2.2.1 Eye/face protection: Suitable chemical-resistant safety goggles should be worn. Consult a supplier of such equipment to identify the most appropriate type. Ensure that an eye-bath is available at the points of use.

8.2.2.2 Hand protection: Chemical resistant gloves of type EN 374 should be worn. Always abide by the instructions and information provided by the glove supplier on use, storage, maintenance and replacement.
8. EXPOSURE CONTROLS AND PERSONAL PROTECTION (continued).

<table>
<thead>
<tr>
<th>Protection</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Body protection</td>
<td>Use impervious overalls and boots. Consult a supplier of such equipment to identify most appropriate type. Always abide by the instructions and information provided by the supplier on use, storage, maintenance and replacement.</td>
</tr>
<tr>
<td>Respiratory protection:</td>
<td>The only volatile component of this product is water. Respiratory protection will not be necessary.</td>
</tr>
<tr>
<td>Environmental exposure controls:</td>
<td>Store only in sealed packages and take all steps necessary to minimise the risk of this product entering drains or other water courses.</td>
</tr>
</tbody>
</table>

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES.

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Viscous, yellow liquid.</td>
</tr>
<tr>
<td>Odour</td>
<td>Very slight acrylic.</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available.</td>
</tr>
<tr>
<td>pH</td>
<td>8.0 at 20°C</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not applicable. The product is a liquid.</td>
</tr>
<tr>
<td>Initial Boiling point</td>
<td>Approx. 100°C</td>
</tr>
<tr>
<td>Flash point</td>
<td>None.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Similar to that of water.</td>
</tr>
<tr>
<td>Flammability</td>
<td>The product does not burn or support combustion.</td>
</tr>
<tr>
<td>Upper/Lower flammability limits</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>32 mbar</td>
</tr>
<tr>
<td>Vapour density</td>
<td>Similar to that of water.</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.31 at 20°C</td>
</tr>
<tr>
<td>Solubilities</td>
<td>Very soluble in water. Only slightly soluble in n-octanol.</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>The surface active properties of this product prevent determination.</td>
</tr>
<tr>
<td>Auto ignition temperature</td>
<td>No data available.</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>At about 100°C the water present will evaporate to leave a residue of acrylic polymers and surfactants.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>400cps at 25°C (Brookfield @ 20 rpm)</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>This product does not have explosive properties.</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>This product does not have oxidising properties.</td>
</tr>
</tbody>
</table>

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity: This product does not react easily with other chemicals and is not expected to do so in anticipated conditions of storage and use. It will however react with strong oxidising agents.

10.2 Chemical Stability: This product is stable under intended conditions of storage and use.

10.3 Possibility of Hazardous Reactions: The possibility of hazardous reactions is extremely low.

10.4 Conditions to avoid: Temperatures outside the range 5°C to 40°C

10.5 Incompatible Materials: Strong oxidising agents

10.6 Hazardous decomposition products: None known.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects.

a) Acute Toxicity Data: No product specific data available but the 96h LD₉₀ (Rat) for both oral and dermal routes of exposure is believed to be >2000 mg/kg.

b) Skin corrosion/irritation: In-use experience has shown that prolonged or repeated exposure of skin tissue to this product can lead to very slight irritation.

c) Serious eye damage/irritation: In-use experience has shown that exposure of the eyes and related tissue to this product can lead to very slight irritation.

d) Respiratory or skin sensitisation: This product does not contain any substances that meet the criteria laid down in EU legislation for classification as a respiratory or skin sensitiser.
SECTION 11. TOXICOLOGICAL INFORMATION (continued)
e) Germ cell mutagenicity: This product does not contain any substances that meet the criteria laid down in EU legislation for classification as mutagenic.
f) Carcinogenicity: This product does not contain any substances that meet the criteria laid down in EU legislation for classification as carcinogenic.
g) Reproductive toxicity: This product does not contain any substances that meet the criteria laid down in EU legislation for classification as toxic to reproduction.
h) STOT single exposure: This product does not contain any substances that are known to target any specific organ on single exposure.
i) STOT repeated exposure: This product does not contain any substances that are known to target any specific organ on repeated exposure.
j) Aspiration hazard: This product does not contain any substances that meet the criteria laid down in EU legislation for classification as an aspiration hazard.

SECTION 12. ECOLOGICAL INFORMATION.

12.1 Toxicity By analogy to similar products the 96 hour LC$_{50}$ (fish) is believed to be > 100 ppm
12.2 Persistence and degradation The main low volatility constituent of this product is only poorly biodegradable. This product will therefore persist for some time in the natural environment but is not considered to be very persistent.
12.3 Bioaccumulative potential This product is not expected to bio-accumulate.
12.4 Mobility in soil This product is highly soluble in water and is therefore expected to exhibit a high degree of mobility in soil.
12.5 Results of PBT assessment Assessment not carried out but this product is believed not to be a PBT nor a vPvB.
12.6 Other adverse effects None known.

13. DISPOSAL CONSIDERATIONS.

Waste Disposal Method: Empty packages and waste from this product are subject to disposal in accordance with The Hazardous Waste (England and Wales) Regulations 2005 (SI 2005/894) or other national equivalent.

14. TRANSPORT INFORMATION.

This product does not meet the criteria for classification as dangerous for transport by road (ADR), rail (RID), inland waterway (ADN), sea (IMDG) or air (ICAO/IATA).

However as with all chemical-based products it must, when being transported, be handled in a manner that minimises the risk of damage to and leakage from the packages.
15. REGULATORY INFORMATION.
15.1 Safety, health and environmental legislation specific for this product.

This product is not subject to the provisions of:


or of individual Member State national legislation which invoke any or all of the following:


g) The current edition of the IATA Dangerous Goods Regulations.

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

SECTION 16. OTHER INFORMATION.

1. Additions and amendments to this SDS.
Despite the fact that this product does not meet the criteria for classification as hazardous laid down in Regulation (EC) 1272/2008 (CLP) and is therefore not subject to the labelling provisions specified therein this SDS has been re-written to reflect the phasing out on 31st May 2015 of Directive 1999/45/EC (CHIP) and its replacement by the CLP regulation. The safety data contained in this version is essentially the same as that contained in the previous version.

2. Evaluation Method of Information Used in Classification.
Bridging principle, “substantially similar mixtures” and calculation.

3. Text of hazard statements referred to, but not shown, elsewhere in this SDS.
Not applicable.

4. Abbreviations and acronyms.
ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road
ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterway
CAS: Chemical Abstracts Service (of the American Chemical Society)
EC_{50}: The half maximal concentration which induces a response halfway between the baseline and maximum within the specified time.
EINECS: European Index of Existing Chemical Substances
ICAO/IATA: Regulations Concerning the Transport of Dangerous Goods by Air.
IMDG: Regulations Concerning the Transport of Dangerous Goods by Sea.
SECTION 16. OTHER INFORMATION (continued)

4. Abbreviations and acronyms (continued).
   LD₅₀: Lethal dose for 50% of test species.
   PBT: Persistent, bioaccumulative, ecotoxic.
   RID: European Agreement Concerning the International Carriage of Dangerous Goods by Rail.
   STOT: Specific target organ toxicity.
   vPvB: Very persistent and very bioaccumulative.
   WEL: Workplace Exposure Limit.

5. Training advice.
   All personnel who are required to work with this product must receive training covering the appropriate use and handling techniques and the use of the recommended personal protective equipment.

6. Further information.
   6.1. Recommended restrictions on use (i.e. non-statutory recommendations by supplier).
   This product should not be used for any purpose other than those mentioned in Section 1.2. As specific conditions of use of this product are beyond the control of the supplier, the user is responsible for adapting the information contained in this SDS to local regulations and circumstances.

   6.2 This product does not contain any substance which:
   is a persistent organic pollutant, as defined in EC regulation No. 850/2004,
   is an ozone depleter, as defined in EC regulation No. 2037/2000,
   is subject to the provisions of Regulation (EC) No. 689/2008 concerning the import and export of dangerous chemicals, or
   is a named Seveso substance nor is in a Seveso category.

DISCLAIMER

The information contained in this SDS relates only to the material specified 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 of issue. However, no warranty, guarantee or representation is made as to its accuracy, reliability or completeness. It is the responsibility of the user to satisfy himself as to the suitability of such information for his own particular use.

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