




MATERIALS SAFETY DATA SHEET		CORGIN SUBZERO
#	Date of preparation:	13th April 2015
01	IDENTIFICATION OF THE SUBSTANCE & COMPANY 	<ul style="list-style-type: none"> <li>• <b>Product name:</b> Corgin SubZero</li> <li>• <b>Description:</b> Freeze protection additive</li> <li>• <b>Supplier:</b> Corgin, Bellasis Street, Stafford, Staffordshire, ST16 3DD</li> <li>• <b>Emergency telephone:</b> 01785 229 300</li> <li>• <b>Application:</b> For addition to odour and dust suppression systems to allow operation in sub-zero ambient temperatures</li> </ul>
02	COMPOSITION / INFORMATION ON INGREDIENTS	<ul style="list-style-type: none"> <li>• A proprietary blend of biodegradable glycol ethers and other ingredients</li> <li>• <b>CAS Number:</b> 57-55-6</li> <li>• <b>Chemical Name:</b> 1,2-Propanediol</li> <li>• <b>Risk:</b> None</li> <li>• <b>Symbol:</b> None</li> </ul>
03	HAZARDS IDENTIFICATION	<b>NOT HAZARDOUS by OSHA definition</b> Slightly combustible liquid. Do not expose to heat, flames or sparks. May cause minor eye irritation. High concentration of aerosol may cause mild irritation of nose and throat. Not expected to cause skin irritation. Prolonged or repeated exposure may cause defatting and drying of skin.
04	FIRST AID 	<ul style="list-style-type: none"> <li>• <b>Eyes:</b> Flush with water for 15 minutes. Call a physician if symptoms persist</li> <li>• <b>Skin:</b> Wash with warm soapy water. Call a physician in the unlikely event of irritation</li> <li>• <b>Ingestion:</b> If able, rinse mouth with water, then drink water to dilute. Do not induce vomiting. Call a physician immediately</li> <li>• <b>Inhalation:</b> Inhalation of concentrated product is not expected to present a significant hazard in normal use. Remove victim to fresh air. Perform artificial respiration if breathing has stopped. Keep the affected person warm and at rest. Obtain medical attention if breathing difficulty persists.</li> </ul>
05	FIRE FIGHTING MEASURES 	<ul style="list-style-type: none"> <li>• <b>Flammability:</b> Low Flammability, Class 111B combustible liquid.</li> <li>• <b>Flash point:</b> 109°C</li> <li>• <b>Auto-ignition temperature:</b> 371°C</li> <li>• <b>Hazardous combustion products:</b> Smoke/fumes. Carbonyl compounds. Acetic acid.</li> </ul>

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		<ul style="list-style-type: none"> <li>• <b>Extinguishing media:</b> Alcohol resistant foam, Carbon Dioxide (CO<sub>2</sub>), Dry chemicals, sand and dolomite etc. Wear self-contained breathing apparatus.</li> </ul>
06	ACCIDENTAL RELEASE MEASURES	<ul style="list-style-type: none"> <li>• <b>Personal precautions:</b> Wear appropriate PPE (See section 8). Spillage may be slippery.</li> <li>• <b>Precautions to protect the environment:</b> Do not allow product to enter watercourses or storm drains without pre-treatment.</li> <li>• <b>Clean-up procedures:</b> Transfer spillage and contaminated absorbents to suitable containers for disposal by a licensed waste disposal contractor. Traces of product should be removed with absorbent material, and if necessary flushed with water to sewer if in accordance with local regulations.</li> </ul>
07	HANDLING AND STORAGE	<ul style="list-style-type: none"> <li>• <b>Protective measures:</b> Avoid eye and skin contact by wearing goggles and gloves. Follow normal industrial handling procedures.</li> <li>• <b>Storage:</b> Product should be stored in original, well sealed containers in a cool, dry place away from sunlight and temperature extremes beyond 5°C-25°C. Stainless steel containers may be used. Do not use zinc (galvanised) containers or pipes</li> </ul>
08	EXPOSURE CONTROLS/ PROTECTIVE EQUIPMENT	<ul style="list-style-type: none"> <li>• <b>Protective measures:</b> Avoid eye and skin contact by wearing goggles and gloves. Respiratory equipment should be considered if working in a confined space.</li> <li>• <b>Hygiene measures:</b> Wash hands with warm soapy water after using this product.</li> <li>• <b>TLV:</b> Not established</li> <li>• <b>PEL:</b> Not established</li> </ul>
09	PHYSICAL / CHEMICAL PROPERTIES	<ul style="list-style-type: none"> <li>• <b>Appearance</b> <ul style="list-style-type: none"> <li>• <b>Physical state:</b> Liquid</li> <li>• <b>Colour:</b> Transparent straw</li> <li>• <b>Odour:</b> little or no odour</li> </ul> </li> <li>• <b>Safety related information</b> <ul style="list-style-type: none"> <li>• <b>pH:</b> 7.5 – 9.5</li> <li>• <b>Vapour pressure:</b> less than 0.1mmHg@25 °C</li> <li>• <b>Density:</b> 1.03 – 1.06</li> <li>• <b>Boiling point:</b> Not determined</li> <li>• <b>Melting point:</b> N/A</li> <li>• <b>Flashpoint:</b> &gt;100 °C</li> </ul> </li> </ul>

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		<ul style="list-style-type: none"> <li>• <b>Evaporation rate:</b> Not determined</li> <li>• <b>Solubility in water:</b> Completely soluble</li> </ul>
10	STABILITY/ REACTIVITY	<ul style="list-style-type: none"> <li>• <b>Chemical stability:</b> Stable when stored correctly</li> <li>• <b>Conditions to avoid:</b> Avoid contact with other chemicals, especially oxidizing agents, acids and alkalis. Avoid naked flames and sparks</li> <li>• <b>Reactivity/ incompatibility:</b> None reported</li> <li>• <b>Hazardous decomposition:</b> None reported</li> <li>• <b>Hazardous polymerisation:</b> None reported.</li> </ul>
11	TOXICOLOGICAL INFORMATION	<ul style="list-style-type: none"> <li>• <b>Product toxicological data:</b> <ul style="list-style-type: none"> <li>• <b>LD 50(oral) rat:</b> 22,000 mg/kg</li> <li>• <b>LD50(skin) rabbit:</b> 20,800mg/kg</li> <li>• No adverse effects noted.</li> </ul> </li> </ul>
12	ECOLOGICAL INFORMATION	<ul style="list-style-type: none"> <li>• <b>Product ecological data:</b></li> <li>• <b>Mobility:</b> The product will dissolve rapidly in water.</li> <li>• Expected to be non-hazardous to aquatic organisms.</li> <li>• <b>Ingredient ecological data:</b> None reported</li> </ul>
13	DISPOSAL CONSIDERATIONS	Dispose of in accordance with national and local regulations. Do not allow concentrated product to enter watercourses or storm drains.
14	TRANSPORT CONSIDERATIONS	<ul style="list-style-type: none"> <li>• <b>UN no.:</b> N/A</li> <li>• <b>Class:</b> N/A</li> <li>• <b>Packing group:</b> N/A</li> </ul>
15	REGULATORY INFORMATION	<ul style="list-style-type: none"> <li>• <b>Risk phrases:</b> N/A</li> <li>• <b>Safety phrases:</b> N/A</li> <li>• <b>Hazard symbol:</b> N/A</li> <li>• As with all chemicals, keep out of reach of children. Do not mix with any other chemicals. Keep containers sealed.</li> </ul>
16	OTHER INFORMATION	It is the responsibility of persons in receipt of this material safety data sheet to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose of or, in any way, come in contact with the product. All information and instructions provided in this material safety data sheet are based on the current state of scientific and technical knowledge as at the date indicated. Corgin shall not be held responsible for any defect in the product covered by this material safety data sheet, should the existence of such defect not be

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		detectable considering the current state of knowledge. No warranty is implied with respect to the quality of the specification of the product, and the user must satisfy himself that the product is suitable for his purpose.