

Material Safety Data Sheet

according to Regulation (EU) 2015/830

MSDS No: PER087P

Issue No: 3

IMPORTANT

Read this MSDS before handling and disposing of this product and pass this information on to employees, customers and users of this product.

1. IDENTIFICATION

Product Name	Perfection Plus Everest Glass Ionomer Restorative Powder
Company Name	Perfection Plus Ltd
Company Address	6 Westwood Court, Brunel Road, Totton, Hants. SO40 3WX. UK
Company Phone No.	+44 (0) 2380 866 677

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture	
Main hazards	No Significant Hazard
2.2. Label elements	
Risk phrases	No Significant Hazard
2.3. Other hazards	
Other hazards	No data available.
Further information	
Medical devices as defined in Directive 93/42/EEC and which are invasive or used in direct physical contact with the human body, are exempted from the provisions of regulation (EC) No 1272/2008 (CLP/GHS) usually if they are in the finished state and intended for the final user.	

3. COMPOSITION/DATA ON COMPONENTS

67/548/EEC / 1999/45/EC

Components Name	Index No	Cas No.	EC No	REACH Registration No	Con (%w/w)	Classification
Tetraethyl silicate (Tetraethylacetate)	014-005- 00-0	78-10-4	201- 083-8		1 - 10%	R10 Xn; R20 Xi; R36/37

EC 1272/2008

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4. FIRST AID MEASURES

Inhalation	Irritating to respiratory system. Move the exposed person to fresh air. Seek medical attention.
Skin Contact	Irritating to skin. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Eye Contact	Irritating to eyes. Rinse immediately with plenty of water for 15 minutes, holding the eyelids open. Seek medical attention if irritation or symptoms persist.
Ingestion	Ingestion may cause nausea and vomiting. DO NOT INDUCE VOMITING. Seek medical attention if irritation or symptoms persist.
Indication of any immediate medical attention and special treatment needed	
No data available.	

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media Carbon oxides.
5.2 Special hazards arising from the substance or mixture Burning produces irritating, toxic and obnoxious fumes.
5.3 Advice for firefighters Wear protective clothing. Wear suitable respiratory equipment when necessary.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation of the working area. Wear suitable protective equipment. Eliminate all sources of ignition. Evacuate personnel to a safe area.
6.2 Environmental precautions Do not allow product to enter drains. Prevent further spillage if safe.
6.3 Methods and materials for containment and cleaning up. Sweep up. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.
6.4 Reference to other sections See Section 13 for disposal information.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best Manual Handling considerations when handling, carrying and dispensing.

7.2 Conditions for safe storage, including any incompatibilities

Keep in a cool, dry, ventilated area. Keep containers tightly closed. Store in correctly labelled containers.

7.3 Specific end use(s)

None.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Exposure Limit Values

Tetraethyl silicate (Tetraethylacetate)	DIR: - 8hTWA mg/m³: 120 STEL mg/m³: 300	8hTWA ppm: 50 STEL ppm: 100 NOT: Skin
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8.2 Exposure controls



8.2.1 Appropriate engineering controls

Ensure adequate ventilation of the working area.

8.2.2 Individual Protection Measures

Wear chemical protective clothing

Eye / face protection – in case of splashing wear approved safety goggles

Skin / Hand protection – chemical resistant gloves

Respiratory protection – wear suitable respiratory equipment when necessary.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical State	Powder
Colour	White
Odour	Not applicable.
Odour Threshold	No data available
pH	No data available
Melting Point	No data available

Freezing Point	No data available
Initial boiling Point	No data available
Flash Point (°C)	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Fat Solubility	No data available
Partition coefficient	No data available
Autoignition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidising properties	No data available
Solubility	Insoluble in water

9.2. Other information

Conductivity	No data available
Surface tension	No data available
Gas group	No data available
Benzene Content	No data available
Lead content	No data available
VOC (Volatile organic compounds)	No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Oxidising agents.

10.4 Conditions to avoid

Heat.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

No data is available on this product.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity	No data available.
Skin corrosion/irritation	May cause irritation to skin.
Serious eye damage/irritation	May cause irritation to eyes.
Respiratory or skin sensitisation	May cause irritation to mucous membranes.

12. ECOLOGICAL INFORMATION

12.1. Persistence and degradability	No data is available on this product.
12.2. Bioaccumulative potential	
Partition coefficient	Everest Glass Ionomer Restorative Powder No data available
12.3. Mobility in soil	No data is available on this product.
12.4. Results of PBT and vPvB assessment	No data available.
12.5. Other adverse effects	No data available.

13. DISPOSAL CONSIDERATIONS

In accordance with all local and national regulations.
 For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.
 Do NOT reuse empty containers.

14. TRANSPORTATION INFORMATION

14.1. UN number	The product is not classified as dangerous for carriage.
14.2. UN proper shipping name	The product is not classified as dangerous for carriage.
14.3. Transport hazard class(es)	The product is not classified as dangerous for carriage.
14.4. Packing group	The product is not classified as dangerous for carriage.
14.5. Environmental hazards	The product is not classified as dangerous for carriage.
14.6. Special precautions for user	The product is not classified as dangerous for carriage.
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	The product is not classified as dangerous for carriage.

15. REGULATORY INFORMATION

15.1. Chemical safety assessment

No significant hazard.

16. OTHER INFORMATION

Revision	<p>This document differs from the previous version in the following areas:.</p> <ul style="list-style-type: none"> 5 - 5.2. Special hazards arising from the substance or mixture. 5 - 5.3. Advice for firefighters. 7 - 7.1. Precautions for safe handling. 8 - Skin protection - Handprotection. 9 - 9.1. Information on basic physical and chemical properties (PH). 9 - 9.1. Information on basic physical and chemical properties (Initial boiling point). 9 - 9.1. Information on basic physical and chemical properties (Melting point). 9 - 9.1. Information on basic physical and chemical properties (Flash point). 9 - 9.1. Information on basic physical and chemical properties (Flammability (solid, gas)). 9 - 9.1. Information on basic physical and chemical properties (Autoignition temperature). 9 - 9.1. Information on basic physical and chemical properties (Explosive properties). 9 - 9.1. Information on basic physical and chemical properties (Oxidising properties). 9 - 9.1. Information on basic physical and chemical properties (Vapour pressure). 9 - 9.1. Information on basic physical and chemical properties (Relative density). 9 - 9.1. Information on basic physical and chemical properties (Viscosity). 9 - 9.1. Information on basic physical and chemical properties (Vapour density). 9 - 9.1. Information on basic physical and chemical properties (Evaporation rate). 9 - 9.1. Information on basic physical and chemical properties (Freezing Point). 9 - 9.1. Information on basic physical and chemical properties (Fat Solubility). 9 - 9.1. Information on basic physical and chemical properties (Solubility). 9 - 9.1. Information on basic physical and chemical properties (Odour threshold). 9 - 9.2. Other information (Conductivity). 9 - 9.2. Other information (Partition coefficient). 9 - 9.2. Other information (Gas group). 9 - 9.2. Other information (Surface tension). 9 - 9.2. Other information (Benzene Content). 9 - 9.2. Other information (Product Subcategory). 9 - 9.2. Other information (Lead content).
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	10 - 10.4. Conditions to avoid. 11 - 11.1.4. Toxicological Information. 11 - Acute toxicity. 11 - Skin corrosion/irritation. 11 - Respiratory or skin sensitisation. 11 - Serious eye damage/irritation. 12 - 12.1. Toxicity. 16 - Maximum content of VOC.
Text of risk phrases in Section 3	R10 - Flammable R20 - Harmful by inhalation. R36/37 - Irritating to eyes and respiratory system.
Text of Hazard Statements in Section 3	Flam. Liq. 3: H226 - Flammable liquid and vapour. Eye Irrit. 2: H319 - Causes serious eye irritation. Acute Tox. 4: H332 - Harmful if inhaled. STOT SE 3: H335 - May cause respiratory irritation.
Further information	The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. 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 other process.

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SUPERSEDES ISSUE: 2

DISCLAIMER OF LIABILITY

The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness.

The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge.

For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

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