

Material Safety Data Sheet

according to Regulation (EU) 2015/830

MSDS No: PER275

Issue No: 4

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 Reline+ Hard Reline Liquid – Phthalate Free
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

2.1.1. Classification 1999/45/EC	Xn; R20/22 Xi; R36/37/38-43 R10-52/53 Symbols: F: Highly Flammable. Xn; Harmful
Main hazards	Flammable. Harmful if swallowed. Irritating to eyes, respiratory system and skin. May cause sensitisation by skin contact. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
2.1.2. Classification - EC 1272/2008	Flam. Liq. 2: H225; Skin Irrit. 2: H315; Skin Sens. 1: H317; Eye Irrit. 2: H319; STOT SE 3: H335; Aquatic Chronic 3: H412;

2.2. Label elements

Hazard pictograms	
Signal Word	Danger
Hazard Statement	Flam. Liq. 2: H225 - Highly flammable liquid and vapour. Skin Irrit. 2: H315 - Causes skin irritation. Skin Sens. 1: H317 - May cause an allergic skin reaction. Eye Irrit. 2: H319 - Causes serious eye irritation.

	<p>STOT SE 3: H335 - May cause respiratory irritation.</p> <p>Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.</p>
Precautionary Statement: Prevention	<p>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P233 - Keep container tightly closed.</p> <p>P240 - Ground/bond container and receiving equipment.</p> <p>P241 - Use explosion-proof electrical/ventilating/lighting// equipment.</p> <p>P242 - Use only non-sparking tools.</p> <p>P243 - Take precautionary measures against static discharge.</p> <p>P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.</p> <p>P264 - Wash thoroughly after handling.</p> <p>P271 - Use only outdoors or in a well-ventilated area.</p> <p>P272 - Contaminated work clothing should not be allowed out of the workplace.</p> <p>P273 - Avoid release to the environment.</p> <p>P280 - Wear protective gloves/protective clothing/eye protection/face protection.</p>
Precautionary Statement: Response	<p>P302+P352 - IF ON SKIN: Wash with plenty of water/ .</p> <p>P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</p> <p>P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P312 - Call a POISON CENTER/doctor/ /if you feel unwell.</p> <p>P321 - Specific treatment (see on this label).</p> <p>P332+P313 - If skin irritation occurs: Get medical advice/attention.</p> <p>P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.</p> <p>P337+P313 - If eye irritation persists: Get medical advice/attention.</p> <p>P370+P378 - In case of fire: Use to extinguish.</p>
Precautionary Statement: Storage	<p>P403+P233 - Store in a well-ventilated place. Keep container tightly closed.</p> <p>P403+P235 - Store in a well-ventilated place. Keep cool.</p> <p>P405 - Store locked up.</p>
Precautionary Statement: Disposal	<p>P501 - Dispose of contents/container to</p>
Further information	<p>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.</p>

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
n-Butyl methacrylate	07-033-00-5	97-88-1	202-615-1		90-100%	R10 Xi; R36/37/38 R43
Benzyl benzoate	607-085-00-9	120-51-4	2-4-402-9		1-10%	Xn; R22 N; R51/53
Ethanol	603-002-00-5	64-17-5	200-578-6		1-10%	F; R11
N, N-Dimethyl-p-toluidine	612-056-00-9	99-97-8	202-805-4		0.5-1%	T; R23/24/25 R33 R52/53

EC 1272/2008

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n-Butyl methacrylate	07-033-00-5	97-88-1	202-615-1		90-100%	Flam. Liq. 3: H226; Eye Irrit. 2: H319; STOT SE 3: H335; Skin Irrit. 2: H315; Skin Sens. 1: H317;
Benzyl benzoate	607-085-00-9	120-51-4	2-4-402-9		1-10%	Acute Tox. 4: H302; Aquatic Chronic 2: H411;
Ethanol	603-002-00-5	64-17-5	200-578-6		1-10%	Flam. Liq. 2: H225;
N, N-Dimethyl-p-toluidine	612-056-00-9	99-97-8	202-805-4		0.5-1%	Acute Tox. 3: H331; Acute Tox. 3: H311; Acute Tox. 3: H301; STOT RE 2: H373; Aquatic Chronic 3: H412;

4. FIRST AID MEASURES

Inhalation	Harmful by inhalation. Inhalation may cause nausea and vomiting. May cause dizziness and headache. Move the exposed person to fresh air. Seek medical attention.
Skin Contact	May cause irritation to skin. May cause dermatitis. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Eye Contact	May cause irritation to eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.
Ingestion	Harmful if swallowed. Ingestion may cause nausea and vomiting. Ingestion is irritating to the respiratory tract and may cause damage to the central nervous system. DO NOT INDUCE VOMITING. If swallowed, seek medical advice immediately and show this container or label.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media Use as appropriate: Carbon dioxide (CO ₂), Dry chemical, Foam.
5.2 Special hazards arising from the substance or mixture Burning produces irritating, toxic and obnoxious fumes. Flammable liquid.
5.3 Advice for firefighters 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. Eliminate all sources of ignition. Wear suitable protective equipment.
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. Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Keep away from sources of ignition - No smoking. Adopt best Manual Handling considerations when handling, carrying and dispensing. Wear suitable protective clothing.
7.2 Conditions for safe storage, including any incompatibilities Keep in a cool, dry, well-ventilated area. Keep containers tightly closed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

8.1.1 Exposure Limit Values

Ethanol	WEL 8-hr limit ppm: 1000 WEL 15 min limit ppm: - WEL 8-hr limit mg/m3 total inhalable dust: - WEL 8-hr limit mg/m3 total respirable dust: -	WEL 8-hr limit mg/m3: 1920 WEL 15 min limit mg/m3: - WEL 15 min limit mg/m3 total inhalable dust: - WEL 15 min limit mg/m3 total respirable dust: -
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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 – wear approved safety goggles

Skin / Hand protection – chemical resistant gloves

Respiratory protection – wear protective clothing. Wear suitable respiratory equipment when necessary.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical State	Liquid
Colour	Clear
Odour	Characteristic
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)	16
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	363
Viscosity	No data available
Explosive properties	No data available
Oxidising properties	No data available
Solubility	No data available

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 Chemical stability

Stable under normal conditions.

10.2 Possibility of hazardous reactions

Oxidising agents.

10.3 Conditions to avoid

Heat, sparks and open flames.

10.4 Incompatible materials

Strong acids. Strong bases.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity	Harmful by inhalation and if swallowed. Headache, nausea and vomiting.
Skin corrosion/irritation	May cause irritation to skin.
Serious eye damage/irritation	May cause irritation to eyes.
Respiratory or skin sensitisation	MAY CAUSE RESPIRATORY TRACT IRRITATION.

11.2 Toxicological Information

Ethanol	Oral Rat LD50: 2000 mg/kg	Dermal Rabbit LD50: 2000/mg/kg
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12. ECOLOGICAL INFORMATION

12.1. Toxicity



Ethanol	Daphnia EC50/48h: 100mg/l
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.	

12.2. Persistence and degradability	No data is available on this product.
12.3. Bioaccumulative potential	
Partition coefficient	Hard Reline+ Liquid: No data available Ethanol: No data available
12.4. Mobility in soil	No data available.
12.5. Results of PBT and vPvB assessment	No data available.
Further information	No data is available on this product.

13. DISPOSAL CONSIDERATIONS

Dispose of in compliance 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

Hazard Pictograms	
 	
14.1 UN Number	UN227
14.2 UN proper shipping name	n-BUTYL METHACRYLATE, STABILIZED
14.3 Transport hazard class(es) ADR/RID	3
Subsidiary risk IMDG	-
Subsidiary risk IATA	3

Subsidiary risk	-
14.4 Environmental hazards	
Environmental hazards	Yes
Marine pollutant	Yes
ADR/RID	
Hazard ID	39
Tunnel Category	(D/E)
IMDG	F-E-S-D
EmS Code	
IATA	
Packing Instruction (Cargo)	366
Maximum Quantity	220 L
Packing Instruction (Passenger)	355
Maximum Quantity	60L

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

No data is available on this product.

16. OTHER INFORMATION

Revision	<p>This document differs from the previous version in the following areas:</p> <ul style="list-style-type: none"> 2 - 2.1. Classification of the substance or mixture. 2 - 2.1.2. Classification - EC 1272/2008. 2 - Hazard pictograms. 2 - Signal Word. 2 - Precautionary Statement: Prevention. 2 - Precautionary Statement: Response. 2 - Precautionary Statement: Storage. 2 - Precautionary Statement: Disposal. 2 - Further information. 3 - 3.2 Mixtures. 4 - Inhalation. 4 - Eye contact. 4 - Skin contact. 4 - Ingestion. 5 - Firefighting measures. 6 - 6.1. Personal precautions, protective equipment and emergency procedures. 7 - 7.1. Precautions for safe handling. 8 - Respiratory protection. 8 - Skin protection - Handprotection. 9 - 9.1. Information on basic physical and chemical properties (Colour). 9 - 9.1. Information on basic physical and chemical properties (PH). 9 - 9.1. Information on basic physical and chemical properties (Initial boiling point).
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	<p>9 - 9.1. Information on basic physical and chemical properties (Melting point).</p> <p>9 - 9.1. Information on basic physical and chemical properties (Flash point).</p> <p>9 - 9.1. Information on basic physical and chemical properties (Flammability (solid, gas)).</p> <p>9 - 9.1. Information on basic physical and chemical properties (Autoignition temperature).</p> <p>9 - 9.1. Information on basic physical and chemical properties (Explosive properties).</p> <p>9 - 9.1. Information on basic physical and chemical properties (Oxidising properties).</p> <p>9 - 9.1. Information on basic physical and chemical properties (Vapour pressure).</p> <p>9 - 9.1. Information on basic physical and chemical properties (Relative density).</p> <p>9 - 9.1. Information on basic physical and chemical properties (Viscosity).</p> <p>9 - 9.1. Information on basic physical and chemical properties (Vapour density).</p> <p>9 - 9.1. Information on basic physical and chemical properties (Evaporation rate).</p> <p>9 - 9.1. Information on basic physical and chemical properties (Freezing Point).</p> <p>9 - 9.1. Information on basic physical and chemical properties (Fat Solubility).</p> <p>9 - 9.1. Information on basic physical and chemical properties (Solubility).</p> <p>9 - 9.1. Information on basic physical and chemical properties (Odour threshold).</p> <p>9 - 9.2. Other information (Conductivity).</p> <p>9 - 9.2. Other information (Partition coefficient).</p> <p>9 - 9.2. Other information (Gas group).</p> <p>9 - 9.2. Other information (Surface tension).</p> <p>9 - 9.2. Other information (Benzene Content).</p> <p>9 - 9.2. Other information (Product Subcategory).</p> <p>9 - 9.2. Other information (Lead content).</p> <p>10 - 10.4. Conditions to avoid.</p> <p>10 - 10.3. Possibility of hazardous reactions.</p> <p>10 - 10.6. Hazardous decomposition products.</p> <p>10 - 10.1. Reactivity.</p> <p>10 - 10.5. Incompatible materials.</p> <p>11 - Respiratory or skin sensitisation.</p> <p>11 - Serious eye damage/irritation.</p> <p>12 - 12.1. Toxicity.</p> <p>12 - 12.4. Mobility in soil.</p> <p>12 - 12.2. Persistence and degradability.</p> <p>12 - 12.5. Results of PBT and vPvB assessment.</p> <p>15 - Labelling.</p> <p>15 - Symbols.</p> <p>15 - Risk phrases.</p>
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	<p>15 - Safety phrases. 15 - 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture. 16 - Maximum content of VOC.</p>
Text of risk phrases in Section 3	<p>R10 - Flammable R11 - Highly flammable. R22 - Harmful if swallowed. R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed. R33 - Danger of cumulative effects. R36/37/38 - Irritating to eyes, respiratory system and skin. R43 - May cause sensitisation by skin contact. R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p>
Text of Hazard Statements in Section 3	<p>Flam. Liq. 3: H226 - Flammable liquid and vapour. Skin Irrit. 2: H315 - Causes skin irritation. Skin Sens. 1: H317 - May cause an allergic skin reaction. Eye Irrit. 2: H319 - Causes serious eye irritation. STOT SE 3: H335 - May cause respiratory irritation. Acute Tox. 4: H302 - Harmful if swallowed. Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects. Flam. Liq. 2: H225 - Highly flammable liquid and vapour. Acute Tox. 3: H301 - Toxic if swallowed. Acute Tox. 3: H311 - Toxic in contact with skin. Acute Tox. 3: H331 - Toxic if inhaled. STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure. Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.</p>

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**SUPERSEDES
ISSUE: 3**

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