

MATERIAL SAFETY DATA SHEET**Section 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product Names: ES High Strength PU Sports Surface Adhesive

1.2. Relevant identified uses of the substance or mixture and uses advised against Use of substance / mixture: PC1 Adhesive.

1.3. Details of the supplier of the safety data sheet

Company name: Ryno Ltd, Castlepoint, Castle Way Ellon AB41 9RG

Email: sales@rynosystems.com

1.4. Emergency telephone number

Emergency tel: 0203 967 3500

Section 2: Hazards identification**2.1. Classification of the substance or mixture**

Classification under CLP: Most important adverse effects:	Not classified. General cleanliness in use should be observed.
	Inhalation of dust from the dried product should be avoided.

2.2. Label elements

None

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB or any endocrine disruptors.

Section 3: Composition/information on ingredients 3.2. Mixtures

None.

The Full Text for all Hazard Statements are Displayed in Section 16.

Section 4: First aid measures**4.1. Description of first aid measures**

General Information:	Remove affected person from source of contamination.
Inhalation:	Move affected person to fresh air at once. Get medical attention if any discomfort continues.
Ingestion:	Do not induce vomiting. Get medical attention immediately.
Skin Contact:	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.
Eye Contact:	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing. Show this Safety Data Sheet to the medical personnel.
Protection of first aiders:	First aid personnel should wear appropriate protective equipment during any rescue

4.2. Most important symptoms and effects, both acute and delayed

General information:	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation:	May cause respiratory irritation.
Ingestion:	There may be soreness and redness of the mouth and throat.
Skin Contact:	Prolonged skin contact may cause redness and irritation.
Eye Contact:	There may be irritation and redness.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor:	No specific recommendations. If in doubt, get medical attention promptly.
Specific treatments:	Treat symptomatically.

Section 5: Fire-fighting measures**5.1. Extinguishing media**

Suitable extinguishing media:	Carbon dioxide. Dry chemical powder. Alcohol or polymer foam.
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards:	The product is non-combustible. Irritating gases or vapours. Not known.
Hazardous combustion products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of carbon. Oxides of nitrogen.

5.3. Advice for fire-fighters

Protective actions during firefighting:	Containers close to fire should be removed or cooled with water. Do not allow water to contact any leaked material.
Special protective equipment for firefighters:	Wear chemical protective suit. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

Section 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Personal Precautions:	Refer to section 8 of SDS for personal protection details.
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6.2. Environmental precautions

Environmental Precautions:	Contain the spillage using bunding. Do not discharge into drains or rivers.
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6.3. Methods and material for containment and cleaning up

Clean up Procedures:	Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Provide adequate ventilation. Contain spillage with sand, earth or other suitable non-combustible material. Avoid the spillage or runoff entering drains, sewers or watercourses.
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6.4. Reference to other sections

Reference to other sections:	Refer to section 8 of SDS for personal protection details.
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Section 7: Handling and storage**7.1. Precautions for safe handling**

Usage precautions:	Do not use in confined spaces without adequate ventilation and/or respirator.
Advice on general occupational hygiene:	Wash promptly with soap and water if skin becomes contaminated. Preventive industrial medical examinations should be carried out.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions:	Store in closed original container. Store in cool, well ventilated area.
Storage class: Incompatibilities:	Chemical storage.Strong oxidising agents.

7.3. Specific end use(s)

Specific end use(s):	The identified uses for this product are detailed in Section 1.2.
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Section 8: Exposure controls/personal protection 8.1. Control parameters

Occupational exposure limits	The product does not contain any relevant quantities with critical values that have to be monitored in the workplace. Respirable dust when abrading cured material.
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8.2. Exposure controls

Appropriate engineering controls	Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.
Eye/face protection:	Wear chemical splash goggles.
Hand protection:	It is recommended that gloves are made of the following material: Nitrile rubber. It should be noted that liquid may penetrate the gloves. Frequent changes are recommended. For exposure up to 8 hours, wear gloves made of the following material: Neoprene.
Other skin and body protection:	Wear suitable protective clothing as protection against splashing or contamination. Wear apron or protective clothing in case of contact.
Hygiene measures:	Use engineering controls to reduce air contamination to permissible exposure level. Wash hands after handling. When using do not eat, drink or smoke.
Respiratory protection:	If ventilation is inadequate, suitable respiratory protection must be worn. If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Combination filter, type A2/P3.
Thermal hazards:	Not relevant
Environmental exposure controls:	Keep container tightly sealed when not in use.

Section 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

(a) Physical State:	Paste
(b) Colour:	Green
(c) Odour:	Perceptible odour
(d) Melting Point/Freezing point:	-10 °C
(e) Initial Boiling Point:	>100 °C
(f) Flammability:	Not available
(g) Lower and upper explosion limits:	Not available
(h) Flash Point:	>100°C
(i) Auto-ignition temperature:	Not available
(j) Decomposition Temperature:	Not available
(k) pH:	N/a
(l) Kinematic Viscosity:	High viscosity
(m) Solubility:	Insoluble in water
(n) Partition coefficient n-octanol/water (log value): Not available	Not available
(o) Vapour pressure:	Not available
(p) Relative Density:	1.6
(q) Relative Vapour density:	Not available
(r) Particle Characteristics:	Not relevant

Section 10: Stability and reactivity**10.1. Reactivity**

Stable under recommended transport or storage conditions.

10.2. Chemical stability

Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Hazardous reactions will not occur under normal transport or storage conditions.

10.4. Conditions to avoid

Heat. Hot surfaces. Sources of ignition. Flames.

10.5. Incompatible materials

Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

In combustion emits toxic fumes.

Section 11: Toxicological information**11.1 Information on toxicological effects**

Toxicological effects: Other health effects:	No information available. There is no evidence that the product can cause cancer.
Acute toxicity - inhalation	No data available
Skin corrosion/irritation - Animal data:	No data available
Serious eye damage/irritation:	No data available
Respiratory sensitisation:	No data available
Skin sensitisation:	No data available
Carcinogenicity:	No data available
Target organ for carcinogenicity:	No data available
Reproductive toxicity	No data available
Specific target organ toxicity (STOT) - repeated exposure:	No data available
Aspiration hazard:	No data available

11.2 Information on other hazards

No endocrine disrupting properties.

Section 12: Ecological information

Ecotoxicity: The product is not expected to be hazardous to the environment.

12.1. Toxicity

Ecotoxicity values: Not applicable.

12.2. Persistence and degradability

Biodegradable in part only.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

Absorbed only slowly into soil. Heavier than water. Vapour is heavier than air.

12.5. Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

12.7. Other adverse effects

None known.

Section 13: Disposal considerations**13.1. Waste treatment methods**

General information:	Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority
Disposal methods:	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Section 14: Transport information

General:	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).
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14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable

14.5. Environmental hazards**Environmentally hazardous / Marine pollutant:** No**14.6. Special precautions for user:**

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not relevant

Section 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

National regulations:	Health and Safety at Work etc. Act 1974 (as amended). The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended). The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).
EU legislation:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Commission Directive 91/322/EEC of 29 May 1991 on establishing indicative limit values by implementing Council Directive 80/1107/EEC on the protection of workers from the risks related to exposure to chemical, physical and biological agents at work. Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work (as amended). REGULATION (EU) No 528/2012 (as amended) concerning the making available on the market and use of biocidal products.

15.2. Chemical Safety Assessment

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

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

Section 16: Other information

The full text for Hazard Statements in section 16 relates to the reference numbers in sections 2 and 3 and not necessarily the finished product classification.

Hazard statements in full: None.

Sources of key data used to compile the Safety Data Sheet:

Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Revision Date: 15th September 2022

Version number: 5

Revision Comments: Updated classification and formatting and data in accordance with COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Legal Disclaimer:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

* These figures are typical and do not constitute a specification.