

ENHANCE CRYSTALGUARD RESIN : Revision Date: 18.03.2020

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION

- 1.1 Product Identifier: ENHANCE CRYSTALGUARD RESIN
 1.2 Relevant Identified Uses: Polyaspartic Floor Coating
 1.3 Details of the supplier: Xymertec Ltd, Unit A, Linton Trading Estate, Bromyard, Herefordshire, HR7 4QT
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 1.4 Emergency Telephone: +44 (0) 7910117144

2. HAZARDS IDENTIFICATION (According to Regulation (EC) No1272/2008 [CLP])

- 2.1 Classification of the mixture or substance
 Physical and Chemical Hazards: H226 Flammable liquid and vapour
 Human health: Skin Sens. 1 - H317
 Environment: Aquatic Chronic. 3 - 412



- 2.2 Label elements
 Label In Accordance With (EC) No. 1272/2008:
 Signal Word: Warning
 Hazard Statements: H317 - May cause an allergic reaction
 H412 - Harmful to aquatic life with long lasting effects
 Precautionary Statements: P210 - Keep away from heat/sparks/open flame
 P233 - Keep container tightly closed
 P240 - Ground/bond container
 P242 - Use only non sparking tools
 P261 - Avoid breathing dust/fume/gas/mist/vapours/spray
 P273 - Avoid release to the environment
 P280 - Wear protective gloves/clothing/eye protection/face protection
 P501 - Dispose of contents/container in accordance with regulations

- 2.3 Other Hazards: None Known
 Results of PBT and vPvB assessment : This information is not required.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Cas No	EC No	Index No	REACH Registra tion No	Name	Classification according to Regulation (EC) No1278/2008	% By Weight
136210-32-7	603-947-3	607-350-00-9		Aspartic acid, N,N-methylenebis (2-methyl-4,1-cyclohexanediy) bis-tetraethyl ester	Skin Sens. 1 - H317 Aquatic Chronic 3; H412	65-80
136210-30-5	603-946-8	607-521-00-8		Aspartic acid, N,N-(methylenedi-4,1-cyclohexanediy) bistetraethyl ester	Skin Sens. 1 - H317 Aquatic Chronic 3; H412	20-30
623-91-7	N/A	607-146-00-X		Fumaric Acid Diethyl Ester	Acute Tox. 4 Oral H302; Skin Irrit. 2 H315; Eye Dam. 1 H318 STOT SE 3 H335	0-5
108-65-6	203-603-9	None		Propylene Glycol Monomethyl Ether Acetate	Flammable H226	5-10

4. FIRST AID MEASURES

4.1 Description of first aid measures

General information

Take off immediately all contaminated clothing. including shoes.

Inhalation

Move patient from contaminated area to fresh air. Consult a physician.

Skin contact:

Wash immediately and thoroughly with soap and water. If skin irritation occurs, seek medical advice/attention.

Eye contact:

Wash open eyes immediately and thoroughly for at least 15 minutes. Consult a physician.

Ingestion

Do NOT induce vomiting, wash mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIRE FIGHTING MEASURES

5.1. Extinguishing media

Powder, Alcohol resistant Foam, Carbon dioxide (CO2)

5.2. Special hazards arising from the substance or mixture

In case of fire and/or explosion do not breathe fumes. Formation of toxic products through combustion: CO2, CO, NOx

5.3. Advice for firefighters

Use water spray to cool unopened containers. Do not allow run-off from fire fighting to enter drains or water courses.

In the event of fire, wear self-contained breathing apparatus and protective suit.

5.4 Further information

No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep away from heat and sources of ignition. Do not smoke. Avoid contact with the skin and the eyes.

6.2. Environmental precautions

Do not let product enter drains. Do not flush into surface water. Do not release into the environment. Local authorities should be advised if significant spillages cannot be contained.

6.3. Methods and material for containment and cleaning up

Absorb with an inert absorbent material. After cleaning, residual product can be removed with steam or hot soapy water. Recover waste water for processing later. Shovel into suitable container for disposal.

6.4. Reference to other sections

Collect and dispose of spillage as indicated in section 13.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid contact with skin and eyes. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. See section 2.2 for precautions

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place. Protect from freezing and direct sunlight.

7.3 Specific end use(s)

See section 1.2

See section 1.2

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

No exposure limits

8.2 Exposure controls

Appropriate engineering controls

Eye/face protection

Safety goggles

Skin protection

Handle with gloves.

Body protection

Wear apron or protective clothing in case of contact

Respiratory protection

In case of inadequate ventilation, use suitable respiratory equipment

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- a) Appearance Form: fluid, slightly yellow
- b) Odour: very slight odour
- c) Odour Threshold: No data available
- d) pH: No data available
- e) Melting point/freezing point: No data available
- f) Initial boiling point: > 200 °C
- g) Flash point: 74 °C
- h) Evaporation rate: No data available
- i) Flammability (solid, gas): No data available
- j) Upper/lower flammability or explosive limits: No data available
- k) Vapour pressure: No data available
- l) Vapour density: No data available
- m) Relative density: 1.06 g/mL at 20 °C
- n) Water solubility: not miscible
- o) Partition coefficient: n-octanol/water: No data available
- p) Auto-ignition temperature: No data available
- q) Decomposition temperature: No data available
- r) Viscosity: ~ 1000 mPas at 20 °C
- s) Explosive properties: No data available
- t) Oxidizing properties: No data available

9.2 Other information

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

None under normal use

10.4 Conditions to avoid

Protect from moisture and heat

10.5 Incompatible materials

Strong Acids or Bases, Strong oxidising agents, isocyanates

10.6 Hazardous decomposition products

Carbon oxides, nitrogen oxides

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity: Oral - LD50: >2000mg/kg (rat)

Dermal - LD50: >2000mg/kg (rat)

Skin corrosion/irritation: Not an irritant

Serious eye damage/eye irritation: Not an irritant

Respiratory or skin sensitisation: Respiratory sensitisation possible

Germ cell mutagenicity: No data available

Carcinogenicity: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity: No data available

Specific target organ toxicity - single exposure: No data available

Specific target organ toxicity - repeated exposure: No data available

Aspiration hazard: No data available

12. ECOLOGICAL INFORMATION

12.1 Toxicity (Aquatic)

Oral: ErC50 (72h)

NOEC 21 d (OECD 203)

EC50 (48h)

LC50 (96h)

113 mg/l (Algen)

0.01 mg/l (daphnia magna)

88.6 mg/l (daphnia magna)

66 mg/l (Danio rerio (zebra fish))

12.2 Persistence and degradability

Not readily biodegradable

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

None known

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements. The product should not be allowed to enter drains, watercourses or soil

14. TRANSPORT INFORMATION

ADR/RID, IMDG, IATA: Not classified as hazardous for shipping

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

No data available

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

H302 - Harmful if swallowed

H315 - Causes skin irritation

H317 - May cause an allergic reaction

H318 - Causes serious eye damage

H335 - May cause respiratory irritation

H412 - Harmful to aquatic life with long lasting effects

Further information

Users of products supplied by Xymertec Ltd should take appropriate measures to ensure working practices are in accordance with the Control of Substances Hazardous to Health Regulations (COSHH). All information is based on results gained from experience and tests and is believed to be accurate but is given without acceptance of liability for loss or damage attributable to reliance thereon as conditions of use lie outside our control. Users should always carry out sufficient tests to establish the suitability of any products for their intended applications. No statements shall be incorporated in any contract unless expressly agreed in writing nor construed as recommending the use of any product in conflict of any patent. All goods are supplied subject to Xymertec Ltd's General Conditions of Sale.