SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form	:	Liquid
Trade name	:	Carbonamine Rapid Prime Resin Component
Product group	:	Trade product

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category	:	Primer for industrial coatings

1.2.2. Uses advised against

Restrictions on use	:	Any other intended applications should be discussed with the manufacturer

1.3. Details of the supplier of the safety data sheet

Xymertec Ltd
Linton Trading Estate, Bromyard, Herefordshire, HR7 4QT
Info@xymertec.com
Tel: +44(0)1885 483124
Mob: +44(0)7910 117144

1.4. Emergency telephone number

Emergency Number : +44(0)7910 177144

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin sensitisation, Category 1	H317
Hazardous to the aquatic environment — Chronic Hazard, Category 3	H412

Full text of H-statements see section 16.

Adverse physicochemical, human health and environmental effects

May cause sensitisation by skin contact. Harmful to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)

GH507

Signal word (CLP)	:	Warning
Hazard statements (CLP)	:	H317 - May cause an allergic skin reaction. H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (CLP)	:	P261 - Avoid breathing fume, gas, mist, spray, vapours. P272 - Contaminated work clothing should not be allowed out of the workplace. P273 - Avoid release to the environment. P280 - Wear protective gloves, protective clothing, face protection. P302+P352 - IF ON SKIN: Wash with plenty of water/soap P321 - Specific treatment (see supplemental first aid instruction on this label) P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash before reuse P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. Other hazards

Other hazards not contributing to the classification: May produce an allergic reaction.

Temperature above flashpoint: higher fire/explosion hazard :

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type : Not Applicable

Cas No	EC No	Index 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 cyclohexanediyl) bistetraethyl ester	Skin Sens. 1 - H317 Aquatic Chronic 3; H412	10-20
136210-30-5	603-946-8	607-521-00-8	Aspartic acid, N, N- (methylendi-4, 1-cyclohexanediyl) bistetraethyl ester	Skin Sens. 1 - H317 Aquatic Chronic 3; H412	50-60
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	0-2.5

3.2. Mixtures Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : IF exposed or concerned: Get medical advice/attention. Remove/Take off immediately all contaminated clothing.

First-aid measures after inhalation : Remove victim to fresh air. Get medical advice/attention if you feel unwell.

First-aid measures after skin contact : Wash with plenty of water/soap. Immediately consult a doctor/medical service.

First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Immediately consult a doctor/medical service.

First-aid measures after ingestion : Rinse mouth. Do not induce vomiting without medical advice. Get immediate medical advice/attention.

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

Symptoms/effects : May cause: Allergic reactions.

4.3. Indication of any immediate medical attention and special treatment

needed Treat according to symptoms (decontamination, vital functions), no known specific antidote.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Temperature above flashpoint: higher fire/explosion hazard.

Explosion hazard : Take precautionary measures against static discharge.

Reactivity in case of fire : Evolution of fumes.

Hazardous decomposition products in case of fire : Carbon dioxide. Carbon monoxide. Nitrogen oxides.

5.3. Advice for firefighters

Precautionary measures fire	:	Exclude sources of heat, sparks and open flame. Approach from upwind. Avoid all eye and skin contact and do not breathe vapour and mist.
Firefighting instructions	:	Cool tanks/drums with water spray/remove them into safety. Evacuate personnel to a safe area. Take account of environmentally hazardous firefighting water.
Protection during firefighting	:	Appropriate self-contained breathing apparatus may be required. Fire-resistant protective clothing.
Other information	:	Avoid release to the environment. Refer to special instructions/safety data sheets.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	:	Avoid contact with skin and eyes. Do not touch or walk on the spilled product. May be dangerously slippery if spilled. Evacuate area. Avoid breathing dust, mist or spray.

6.1.1. For non-emergency personnel

Protective equipment	:	For further information refer to section 8: "Exposure controls/personal protection".

6.1.2. For emergency responders

Protective equipment	:	For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid product to come into sewer or superficial water. Avoid release to the environment. Not in groundwater, surfacewater or sewerage.

6.3. Methods and material for containment and cleaning up

For containment	:	Clean up any spills as soon as possible, using an absorbent material to collect it.
Methods for cleaning up	:	Absorb spillage to prevent material damage. Contain and collect spillages with non-combustible absorbent materials, e.g sand, earth, vermiculite, diatomaceous earth . Shovel or sweep up and put in a closed container for disposal.
Other information	:	Exclude sources of heat, sparks and open flame. May be dangerously slippery if spilled.

6.4. Reference to other sections Reference to other sections (8, 13).

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed	:	None under normal use.
Precautions for safe handling	:	Avoid contact with skin and eyes. Do not breathe gas, fumes, vapour or spray. Ensure there is adequate ventilation. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Heating can release hazardous gases.
Hygiene measures	:	Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	:	Use grounded electrical/mechanical equipment.
Storage conditions	:	Keep away from ignition sources (including static discharges). Keep container tightly closed and in a well-ventilated place. Protect against frost.
Incompatible products	:	Keep away from: strong acids, strong bases and oxidising compounds, water, reductor agents.
Maximum storage period	:	>= 2 years
Storage temperature	:	10 - 30 °C
Heat and ignition sources	:	No flames, no sparks. Eliminate all sources of ignition.
Information on mixed storage	:	Segregate from foodstuffs.
Storage area	:	Keep out of direct sunlight. Protect against frost.

7.3. Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Carbonamine Rapid Prime Resin Component	
DNEL/DMEL (Workers)	
Acute - systemic effects, inhalation	112 mg/m³
Acute - local effects, inhalation	Not hazardous.
Long-term - systemic effects, dermal	4 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	28 mg/m³/day
Long-term - local effects, inhalation	Not hazardous.
DNEL/DMEL (General population)	
Acute - systemic effects, dermal	1,4 mg/kg bodyweight
Acute - systemic effects, inhalation	4,8 mg/m³
Long-term - systemic effects,oral	1,4 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	4,8 mg/m³
Long-term - systemic effects, dermal	1,4 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0,00013 mg/l
PNEC aqua (marine water)	0,000013 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0,21 mg/kg dwt
PNEC sediment (marine water)	0,02 mg/kg dwt
PNEC (Soil)	
PNEC soil	0,1 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	31,1 mg/l

8.2. Exposure controls

Appropriate engineering controls:

Good ventilation of the workplace required. If these are not sufficient to maintain concentrations of particulates and/or solvent vapours below the relevant occupational exposure limits, suitable respiratory protective equipment should be worn.

Personal protective equipment:

Gloves. Face shield.

Hand protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) and other. Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing

Eye protection:

Use splash goggles when eye contact due to splashing is possible. Face shield

Skin and body protection:

Protective clothing. Body protection must be chosen based on level of activity and exposure

Respiratory protection:

Avoid all eye and skin contact and do not breathe vapour and mist. In case of inadequate ventilation wear respiratory protection

Environmental exposure controls:

Assure that emissions are compliant with all applicable air pollution control regulations.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Appearance	:	Liquid
Colour	:	Various
Odour	:	Slight
Odour threshold	:	Not applicable, odour not perceivable
pH	:	Not determined
pH solution	:	Not determined
Relative evaporation rate (butylacetate=1)	:	Not determined
Boiling point	:	300 °C @ 101.3 kPa
Flash point	:	100 °C @ 101.3 kPa
Auto-ignition temperature	:	375 °C Data apply to the main component
Decomposition temperature	:	≈ 234 °C Data apply to the main component
Flammability (solid, gas)	:	Non flammable, Data apply to the main component
Vapour pressure	:	0,0018 Pa @ 20°C
Relative vapour density at 20 °C	:	Not determined
Relative density	:	≈ 1,06 +- 0.02
Solubility	:	Water: < 0,1 g/l Data apply to the main component
Explosive properties	:	Not expected to present a significant hazard under anticipated conditions of normal use
Explosive limits	:	For liquids not relevant for classification and labelling

SECTION 10: Stability and reactivity

10.1. Reactivity

No specific data. This product does not present any particular risk when handled in accordance with good occupational hygiene practice.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Self-heating substances and mixtures Not applicable. Data apply to the main component.

10.4. Conditions to avoid

Avoid high temperatures. Keep away from reducing agents/(strong) acids /(strong) bases.

10.5. Incompatible materials

Acids. Chlorides. Oxidizing agent. Isocyanates.

10.6. Hazardous decomposition products COx.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	:	Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	:	Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

Carbonamine Rapid Prime Resin Component	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 4,224 mg/m³ (OECD 403 method)
Additional information	The product has not been tested. The statement has been derived from substances/products of a similar structure or composition

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)
pH: Not determined

Additional information : May cause slight irritation. (OECD 404 method)

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)
pH: Not determined

Additional information : May cause slight irritation to eyes (OECD 405 method)

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Additional information : (OECD 406 method)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Additional information : Ames-test

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)

Carbonamine Rapid Prime Resin Component)	
NOAEL (oral, rat)	1000 mg/kg bodyweight (OECD 407 method)

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

Aspiration hazard : Not classified

Additional information : Based on available data, the classification criteria are not met

Potential adverse human health effects and symptoms : May cause an allergic skin reaction.

Other information : The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Not expected to present a significant hazard under anticipated conditions of normal use.

Ecology - air : Not dangerous for the ozone layer (Council Regulation (EC) no 1005/2009).

Ecology - water : Toxic to aquatic life with long lasting effects.

Acute aquatic toxicity : Not classified

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Carbonamine Rapid Prime Resin Component	
LC50 fish 1	66 mg/l Brachydanio rerio, (OECD 203 method)
EC50 Daphnia 1	88,6 mg/l
EC50 72h algae (1)	1319 mg/l (OECD 201 method)

12.2. Persistence and degradability

Carbonamine Rapid Prime Resin Component	
Persistence and degradability	Not readily biodegradable. Inherently biodegradable. Not applicable.

12.3. Bioaccumulative potential

Carbonamine Rapid Prime Resin Component	
Log Pow	Not determined
Log Kow	5,16 @20°C
Bioaccumulative potential	Not potentially bioaccumulable.

12.4. Mobility in soil

Carbonamine Rapid Prime Resin Component	
Ecology - soil	This material has not been tested. No information available about this product.

SECTION13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	:	Contain and dispose of waste according to local regulations.
Waste treatment methods	:	Recycle/reuse. Collect all waste in suitable and labelled containers and dispose according to local legislation.
Sewage disposal recommendations	:	Do not discharge into drains or the environment.
Product/Packaging disposal recommendations	:	Remove to an authorised incinerator. Dispose in a safe manner in accordance with local/national regulations. Packs that cannot be cleaned should be disposed of in the same manner as the contents.
Additional information	:	Avoid discharge to the environment. This material and its container must be disposed of in a safe way, and as per local legislation.
Ecology - waste materials	:	Empty containers should be thoroughly rinsed with large quantities of clean water. Avoid release to the environment.

SECTION14: Transport information

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

14.6. Special precautions for user

- Overland transport Not applicable
- Transport by sea Not applicable
- Air transport Not applicable
- Inland waterway transport Not applicable
- Rail transport Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC

Code Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	Polyaspartic Polyurea Resin F 420 - Diethyl fumarate
3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	Polyaspartic Polyurea Resin F 420

Polyaspartic Polyurea Resin F 420 is not on the REACH Candidate List

Polyaspartic Polyurea Resin F 420 is not on the REACH Annex XIV List

Other information, restriction and prohibition regulations : If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product.

SECTION 16: Other information