SAFETY DATA SHEET
Ultragrip Curing Agent

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

1.1. Product identifier

Product name Ultragrip Curing Agent

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

Identified uses Paint.

1.3. Details of the supplier of the safety data sheet

Supplier

Aztec Chemicals
Unit 16, University Way
Orion Park
Crewe
Cheshire
CW1 6NG
+ 44 (0) 1270 655500 (T)
+ 44 (0) 1270 655501 (F)
info@aztecchemicals.com

1.4. Emergency telephone number

Emergency telephone +44 (0)7831 300868

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards Not Classified

Health hazards Acute Tox. 4 - H302 Acute Tox. 4 - H332 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317

Environmental hazards Not Classified

Classification (67/548/EEC or 1999/45/EC) Xn;R20/22. C;R34.

2.2. Label elements

Pictogram

Signal word Danger

Hazard statements

H302+H332 Harmful if swallowed or if inhaled.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.

Ultragrip Curing Agent

Precautionary statements	P102 Keep out of reach of children. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash … thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P308+P313 IF exposed or concerned: Get medical advice/attention. P410+P403 Protect from sunlight. Store in a well-ventilated place. P501 Dispose of contents/container in accordance with local regulations.
Supplemental label information	RCH002b For professional users only.
Contains	BENZYL ALCOHOL, m-Phenylenebis(Methylamine) 1,3 Benzenedinethanamine

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

BENZYL ALCOHOL **30-60%**

CAS number: 100-51-6 EC number: 202-859-9 REACH registration number: 01-2119492630-38

Classification	Classification (67/548/EEC or 1999/45/EC)
Acute Tox. 4 - H302 Acute Tox. 4 - H332	Xn;R20/22

m-Phenylenebis(Methylamine) 1,3 Benzenedinethanamine **10-30%**

CAS number: 1477-55-0 EC number: 216-032-5 REACH registration number: 01-2119480150-50

Classification	Classification (67/548/EEC or 1999/45/EC)
Acute Tox. 4 - H302 Acute Tox. 4 - H332 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Aquatic Chronic 3 - H412	Xn;R20/22. C;R34. R52/53.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Move affected person to fresh air at once. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention.
Inhalation	Move affected person to fresh air at once. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.

Ultragrip Curing Agent

Ingestion Never give anything by mouth to an unconscious person. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Give plenty of water to drink. Get medical attention immediately. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Rinse mouth thoroughly with water. Promptly get affected person to drink large volumes of water to dilute the swallowed chemical. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

Skin contact Remove affected person from source of contamination. Rinse immediately with plenty of water. Get medical attention promptly if symptoms occur after washing.

Eye contact Remove affected person from source of contamination. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.

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.

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

Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Use fire-extinguishing media suitable for the surrounding fire. Extinguish with foam, carbon dioxide, dry powder or water fog. Water spray, fog or mist.

5.2. Special hazards arising from the substance or mixture

Specific hazards Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Cool containers exposed to flames with water until well after the fire is out.

Special protective equipment for firefighters 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 Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. Avoid discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13. Avoid the spillage or runoff entering drains, sewers or watercourses. Stop leak if possible without risk. DO NOT touch spilled material! Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Absorb in vermiculite, dry sand or earth and place into containers. Wash thoroughly after dealing with a spillage. Inform authorities if large amounts are involved.

6.4. Reference to other sections

Ultragrip Curing Agent

Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Keep away from heat, sparks and open flame. Avoid spilling. Avoid contact with skin and eyes. Avoid inhalation of vapours. Use approved respirator if air contamination is above an acceptable level.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep only in the original container.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

WEL = Workplace Exposure Limits

Ingredient comments No exposure limits known for ingredient(s).

BENZYL ALCOHOL (CAS: 100-51-6)

DNEL

Industry - Inhalation; Short term systemic effects: 450 mg/m³
Industry - Dermal; Short term systemic effects: 47 mg/m³
Consumer - Inhalation; Long term systemic effects: 8.11 mg/m³
Consumer - Oral; Short term systemic effects: 25 mg/m³
Consumer - Inhalation; Short term systemic effects: 40 mg/m³
Industry - Inhalation; Long term systemic effects: 90 mg/m³
Consumer - Dermal; Short term systemic effects: 29 mg/m³
Industry - Dermal; Long term systemic effects: 9.5 mg/kg/day
Consumer - Oral; Long term systemic effects: 5 mg/kg/day

8.2. Exposure controls

Protective equipment

Appropriate engineering controls Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.

Personal protection When using do not smoke

Eye/face protection Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles.

Hand protection Wear protective gloves made of the following material: Nitrile rubber. Viton rubber (fluoro rubber). Polyvinylidene chloride/polyethylene (PVDC/PE).

Other skin and body protection Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact. Provide eyewash station.

Ultragrip Curing Agent

Hygiene measures	Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove non-impervious clothing that becomes contaminated. Wash promptly with soap and water if skin becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.
Respiratory protection	If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Organic vapour filter.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Odour	Characteristic.
Initial boiling point and range	>150°C @ 760 mm Hg
Flash point	>100°C CC (Closed cup).
Upper/lower flammability or explosive limits	Lower flammable/explosive limit: 0.8
Vapour density	>1
Relative density	1.05 - 1.15 @ 20°C
Solubility(ies)	Insoluble in water.
Viscosity	400 - 600 mPas @ 25c @ °C
Comments	Information given is applicable to the major ingredient.

9.2. Other information

Other information	Not available.
Volatility	20
Volatile organic compound	This product contains a maximum VOC content of 150 g/l.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	Stable at normal ambient temperatures and when used as recommended.

10.2. Chemical stability

Stability	Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Does not decompose when used and stored as recommended.

10.4. Conditions to avoid

Conditions to avoid	Avoid heat. Avoid freezing. Avoid contact with the following materials: Acids. Oxidising agents.

10.5. Incompatible materials

Materials to avoid	Keep away from oxidising materials, heat and flames.

10.6. Hazardous decomposition products

Hazardous decomposition products	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Toxic and corrosive gases or vapours. Carbon dioxide (CO2). Carbon monoxide (CO).

Ultragrip Curing Agent

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg)	1,475.41

Acute toxicity - inhalation

ATE inhalation (vapours mg/l)	55.0
ATE inhalation (dusts/mists mg/l)	3.33

Inhalation	Gas or vapour is harmful on prolonged exposure or in high concentrations. May cause respiratory system irritation. Headache. Symptoms following overexposure to dust may include the following: Drowsiness. Vapours may irritate throat/respiratory system. Dizziness.
Ingestion	Harmful if swallowed. Ingestion of large amounts may cause unconsciousness. Diarrhoea. Nausea, vomiting. Headache.
Skin contact	May cause sensitisation by skin contact. Irritating to skin. Harmful in contact with skin. Causes burns.
Eye contact	Irritating to eyes.
Acute and chronic health hazards	The product contains an epoxy resin. May cause sensitisation or allergic reactions in sensitive individuals.
Route of entry	Skin and/or eye contact Inhalation Ingestion
Target organs	Skin Respiratory system, lungs Eyes

Toxicological information on ingredients.

BENZYL ALCOHOL

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	1,620.0
Species	Rat
ATE oral (mg/kg)	1,620.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC_{50} dust/mist mg/l)	8.8
Species	Rat
ATE inhalation (dusts/mists mg/l)	1.5

m-Phenylenebis(Methylamine) 1,3 Benzenedinethanamine

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	500.0
Species	Rat

ATE oral (mg/kg)	500.0
Acute toxicity - inhalation	
Acute toxicity inhalation (LC_{50} vapours mg/l)	11.0
Species	Rat
ATE inhalation (vapours mg/l)	11.0

SECTION 12: Ecological Information

Ecotoxicity There are no data on the ecotoxicity of this product. The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment. The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

12.1. Toxicity

Toxicity Not available.

Ecological information on ingredients.

BENZYL ALCOHOL

Acute toxicity - fish	LC_{50}, 96 hours: 460 mg/l,
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 230 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC_{50}, 72 hours: 770 mg/l,

12.2. Persistence and degradability

Persistence and degradability Not available.

Ecological information on ingredients.

BENZYL ALCOHOL

Persistence and degradability	The product is readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential Not available.

Ecological information on ingredients.

BENZYL ALCOHOL

Bioaccumulative potential	May accumulate in soil and water systems.
Partition coefficient	log Kow: 1.10

12.4. Mobility in soil

Mobility Not known.

Ecological information on ingredients.

Ultragrip Curing Agent

BENZYL ALCOHOL

Mobility	The product is soluble in water.
Surface tension	39 mN/m @ 20°C

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	Not available.

Ecological information on ingredients.

BENZYL ALCOHOL

Results of PBT and vPvB assessment	This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects	Not available.

Ecological information on ingredients.

BENZYL ALCOHOL

Other adverse effects	Not known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

SECTION 14: Transport information

General	Packs of 1L or less are not regulated under the limited quantities provisions .

14.1. UN number

UN No. (ADR/RID)	2735
UN No. (IMDG)	2735
UN No. (ICAO)	2735

14.2. UN proper shipping name

Proper shipping name (ADR/RID)	Amines, Liquid NOS or Polyamides, Liquid, Corrosive, NOS (m-phenylenebis(methylamine) 1, 3Benzeneeeedinethanamine)
Proper shipping name (IMDG)	Amines, Liquid NOS or Polyamides, Liquid, Corrosive, NOS (m-phenylenebis(methylamine) 1, 3Benzeneeeedinethanamine)
Proper shipping name (ICAO)	Amines, Liquid NOS or Polyamides, Liquid, Corrosive, NOS (m-phenylenebis(methylamine) 1, 3Benzeneeeedinethanamine)
Proper shipping name (ADN)	Amines, Liquid NOS or Polyamides, Liquid, Corrosive, NOS (m-phenylenebis(methylamine) 1, 3Benzeneeeedinethanamine)

14.3. Transport hazard class(es)

ADR/RID class	8

Ultragrip Curing Agent

ADR/RID subsidiary risk

ADR/RID label 8

IMDG class 8

IMDG subsidiary risk

ICAO class/division 8

ICAO subsidiary risk

Transport labels

14.4. Packing group

ADR/RID packing group III

IMDG packing group III

ICAO packing group III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

EmS F-A, S-F

Emergency Action Code 3Z

Hazard Identification Number (ADR/RID) 90

Tunnel restriction code (E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

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

National regulations The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).

EU legislation Commission Regulation (EU) No 453/2010 of 20 May 2010.

Guidance Workplace Exposure Limits EH40.
CHIP for everyone HSG228.
Safety Data Sheets for Substances and Preparations.
Approved Classification and Labelling Guide (Sixth edition) L131.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Ultragrip Curing Agent

Revision comments	This is first issue.
Revision date	11/08/2015
Revision	1
SDS number	12344
SDS status	Approved.
Risk phrases in full	R20/22 Harmful by inhalation and if swallowed. R34 Causes burns. R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Hazard statements in full	H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H332 Harmful if inhaled. H412 Harmful to aquatic life with long lasting effects.

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 process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.