IMG DISTRIBUTORS

Telephone: (44)01827 255719
Email: distributors@img-limited.co.uk
Industrial Maintenance Group Distributors
Riverside Industrial Estate
Fazeley, Tamworth
Staffordshire, B78 3RW

Cayman Rapid

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product Identifier

Material name : Cayman Rapid
Product code :

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

Product use : Resin-impregnated bandage for pipe repair system

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: IMG Ltd.,
Unit M
Riverside Industrial Estate
Fazeley
Tamworth
B78 3RW

Tel. : 01827 283322
Fax. : 01827 250143

Email (for SDSs) : sales@img-limited.co.uk

1.4 Emergency tel. no. : 01827 283322 (Available from 08.30 – 17.00 hours).

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
According to 1272/2008/EC: Classification, Labelling and Packaging of Substances and Mixtures (CLP) Regulation:

Physical and Chemical Hazards	Not classified
Human health	Sk. Irrit.2: H315; Sk. Sens.1: H317; Eye Irrit.2: H319; Resp. Sens.1: H334; STOT SE3: H335; Carc. 2; H351; STOT RE2; H373
Environment	Not classified

2.2 Label elements
Labelling according to EC Directives: 1272/2008/EC
Signal word: Danger **Contains:** Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1), polymer with 1,1'-methylenebis[4-isocyanatobenzene]

Pictogram(s):

H-Statements:	H315	Causes skin irritation
	H317	May cause an allergic skin reaction
	H319	Causes serious eye irritation
	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
	H335	May cause respiratory irritation
	H351	Suspected of causing cancer
	H373	May cause damage to organs through prolonged or repeated exposure

IMG DISTRIBUTORS
Telephone: (44)01827 255719
Email: distributors@img-limited.co.uk
Industrial Maintenance Group Distributors
Riverside Industrial Estate
Fazeley, Tamworth
Staffordshire, B78 3RW

P-Statements:	P202	Do not handle until all safety precautions have been read and understood.
	P261	Avoid breathing dust/vapours.
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
	P302+352	IF ON SKIN: Wash with plenty of water
	P332+313	If skin irritation occurs: Get medical advice/attention.
	P304+340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P337+313	If eye irritation persists get medical advice/attention.
	P308+313	If exposed or concerned: Get medical advice/attention.
Supplemental labelling information:	EUH204	Contains Isocyanates. May produce an allergic reaction.

2.3 Other hazards No data available

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures:

Hazardous components

Chemical Name	CAS No./ EC No./ Reg. No.	Classification (1272/2008/EC)	Content
OXIRANE, METHYL-, POLYMER WITH OXIRANE, ETHER WITH 1,2,3-PROPANETRIOL (3:1), POLYMER WITH 1,1'-METHYLENEBIS[4-ISOCYANATOBENZENE]	59675-67-1 686-507-3	Sk.Irrit.2; H315 Sk.Sens.1; H317 Eye Irrit.2; H319 Resp.Sens.1; H334 STOT SE3; H335 Carc.2; H351 STOT RE2; H373	25-45%
TITANIUM DIOXIDE	13463-67-7 236-675-5	Not classified but has a WEL	1-2%
p-TOLUENESULFONYL ISOCYANATE	4083-64-1 223-810-8	Sk.Irrit.2; H315: C ≥ 5% Eye Irrit.2; H319: C ≥ 5% Resp.Sens.1; H334 STOT SE3; H335:C ≥ 5%	0-0.5%

Other information: Above ingredients are absorbed onto cloth material based on fibre glass continuous filament (non-respirable), CAS 65997-17-3.

See Section 16 for the full text of the H-statements noted above.

(1272/2008/EC: Classification, Labelling and Packaging of Substances and Mixtures (CLP) Regulation).

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice: Remove casualty from exposure ensuring one's own safety whilst doing so. Never give anything by mouth to an unconscious person.

Skin contact: Wash skin thoroughly with soap and warm water. Dry skin and apply replenishing cream.

Eye contact: Rinse with water for 10 minutes and seek medical advice if irritation persists.

Telephone: (44)01827 255719
Email: distributors@img-limited.co.uk
Industrial Maintenance Group Distributors
Riverside Industrial Estate
Fazeley, Tamworth
Staffordshire, B78 3RW

4.1 Description of first aid measures (continued)

Ingestion: Unlikely due to the product's physical properties; if affected, rinse mouth with water and give water to drink. Do not induce vomiting. Seek medical advice.

Inhalation: Remove to fresh air. Keep the affected person warm and at rest. Get prompt medical attention.

4.2 Most important symptoms and effects, both acute and delayed: May cause irritation to skin. May cause an allergic skin reaction. May cause serious eye irritation. May cause respiratory irritation, asthma or allergy symptoms. Overexposure to isocyanates can cause lung sensitivity to dust, cold air or other irritants that can persist for several weeks or become permanent.

4.3 Indication of any immediate medical attention and special treatment needed: See skin and eye contact information above.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media:	Carbon dioxide; dry chemical powder; alcohol or polymer foam.
Unsuitable extinguishing media:	High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting:	Not flammable but may support combustion. Irritating/toxic fumes may be released at elevated temperatures.

5.3 Advice for fire-fighters:

Special protective equipment:	Wear self-contained breathing apparatus. Use personal protective equipment.
Further information:	Standard procedure for chemical fires. Use water spray to cool unopened containers. Do not allow fire run-off to enter drains.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as necessary – see Section 8.

6.2 Environmental precautions

Do not allow release into the environment.

6.3 Methods and materials for containment and cleaning up

Collect up with sand, earth, or vermiculite, and place in a labelled container for disposal in accordance with local/national regulations.

6.4 References to other sections: See sections 8 and 13 for personal protection and disposal information.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Handle in accordance with standard good housekeeping practices.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, well ventilated area. Protect from frost, heat and sunlight. Incompatible with oxidising agents. Keep away from food, drink and animal feed.

IMG DISTRIBUTORS
Telephone: (44)01827 255719
Email: distributors@img-limited.co.uk
Industrial Maintenance Group Distributors
Riverside Industrial Estate
Fazeley, Tamworth
Staffordshire, B78 3RW

7.3 Specific end use(s): No information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters:

Chemical name	8hr TWA	15min STEL	Information	Reference
ISOCYANATES (as -NCO)	0.02 mg m^{-3}	0.07 mg m^{-3}	Sen	EH40/2005
TITANIUM DIOXIDE	4 mg m^{-3} 10 mg m^{-3}		Respirable dust Inhalable dust	EH40/2005

DNEL Information

Area of application	Exposure route	Titanium Dioxide
Consumer	Oral-Long term systemic effects	700 mg/kg
Workers/Employees	Inhalation-Long term local effects	10 mg/m^3

PNEC Information

Environment	Titanium Dioxide
Aquatic Compartment	
Fresh water	0.127 mg/l
Marine water	1 mg/l
Water-intermittent (sporadic) release	0.61 mg/l
Dry Sediment – fresh water	1000 mg/kg
Dry Sediment – marine water	100 mg/kg
Terrestrial Compartment	
Dry soil	100 mg/kg

8.2 Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Personal protective equipment

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency. Respiratory protective device with particle filter. Sen: Capable of causing occupational asthma.

Hand protection: Nitrile rubber gloves recommended. Contact the glove supplier for specific advice.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin and body protection: General workwear.

Hygiene measures: Observe good industrial hygiene and safety practices. Do not eat or drink whilst using the product.

Environmental exposure controls: Do not discharge into drains or rivers.

IMG DISTRIBUTORS
Telephone: (44)01827 255719
Email: distributors@img-limited.co.uk
Industrial Maintenance Group Distributors
Riverside Industrial Estate
Fazeley, Tamworth
Staffordshire, B78 3RW

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

State and colour	Off white impregnated cloth.
Odour	Slightly musty
Odour Threshold	No data available
Flammability	Non-flammable
Flash point	198°C
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Explosive properties	Not explosive
Thermal decomposition	No data available
Auto-ignition temperature	Not applicable
Oxidising properties	Non-oxidising
Solubility in water	Insoluble
Solubility in other solvents	Not determined
pH	Not applicable
Melting point/range	No data available
Boiling point/range	(MDI): 207°C
Density	Not applicable
Vapour pressure	No data available
Vapour density	No data available
Partition coefficient: n-octanol/water	No data available
Viscosity (kinematic)	Not applicable
Evaporation rate	No data available

9.2 Other information No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity	Generally non-reactive.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	None if stored and used as directed. Moisture reacts with isocyanates.
10.4 Conditions to avoid	Direct sunlight. Extremes of temperature.
10.5 Incompatible materials	Strong oxidising agents. Strong acids.
10.6 Hazardous decomposition products	Thermal decomposition may produce smoke, isocyanate vapours, oxides of carbon, oxides of nitrogen and hydrogen cyanide.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Chemical name	Oral (LD50)	Inhalation (LC50)	Dermal (LD50)
TITANIUM DIOXIDE	>5000 mg/kg (Rat)	>6.8 mg/l 4h (Rat)	>5000 mg/kg(Rabbit)

Skin corrosion/irritation: Contact may cause irritation and redness.

Serious eye damage/eye irritation: Contact may cause irritation and pain. The eyes may water profusely.

Respiratory or skin sensitisation: May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction which may lead to becoming sensitised to the substance.

Telephone: (44)01827 255719
Email: distributors@img-limited.co.uk
Industrial Maintenance Group Distributors
Riverside Industrial Estate
Fazeley, Tamworth
Staffordshire, B78 3RW

11.1 Information on toxicological effects (continued)

Repeated dose toxicity: No data available.

Carcinogenicity: There is limited evidence of carcinogenicity for some Isocyanates in animal studies, but no definite link to humans.

Mutagenicity: Not mutagenic

Toxicity for reproduction: Not toxic for reproduction.

Specific target organ toxicity (STOT): May cause respiratory irritation.

Further information It is unlikely that this substance will be swallowed due to its physical properties. However, swallowing small amounts of the active material during normal handling may cause irritation of mouth/throat, nausea and stomach pain. Prolonged exposure to Isocyanates (above the WEL) can cause coughing, wheezing, chest tightness, and asthma in sensitive individuals.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Chemical name	Species	Test	Value
TITANIUM DIOXIDE	Daphnia	EC50/LC50	>100 mg/l
	Fish	EC50/LC50	>100 mg/l
	Aquatic plants	EC50/LC50	16 mg/l

12.2 Persistence and degradability Inorganic components such as titanium dioxide are not biodegradable. No data available on the other ingredients.

12.3 Bioaccumulative potential No data available.

12.4 Mobility in soil Insoluble in water.

12.5 Results of PBT and vPvB assessment Contains no PBT or vPvB substances.

12.6 Other adverse effects May be harmful to aquatic species.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal operations: Dispose of in accordance with local and national regulations. Do not dispose of waste into sewer.
Do not dispose of together with household waste. Contact licensed waste disposal company.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not burn or use a cutting torch on the empty container.

14. TRANSPORT INFORMATION

Not classified as hazardous for transport purposes.
UN number not required.

IMG DISTRIBUTORS
Telephone: (44)01827 255719
Email: distributors@img-limited.co.uk
Industrial Maintenance Group Distributors
Riverside Industrial Estate
Fazeley, Tamworth
Staffordshire, B78 3RW

15. REGULATORY INFORMATION

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

UK Regulatory References
The Control of Substances Hazardous to Health Regulations 2002 (S.I 2001 No.2677) with amendments.

EU Directives
Regulations (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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

Statutory Instruments
The Chemicals (Hazard information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

Guidance Notes
Health and Safety Executive Workplace Exposure Limits EH40.

Volatile Organic Compounds (VOC) content: Nil (Directive 1999/13/EC)

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been performed on this product.

16. OTHER INFORMATION

This safety data sheet is prepared in accordance with Regulation EU 453/2010, amending Regulation (EC) No 1907/2006 (REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals).

Tariff number: 35069900

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

H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation
H351	Suspected of causing cancer
H373	May cause damage to organs through prolonged or repeated exposure

Abbreviations and acronyms

CAS: Chemical Abstract Service (division of the American Chemical Society). {Section 3}.
STOT: Single Target Organ Toxicity (Section 3 and 11).
RE: Repeated exposure (section 3)
SE: Single exposure (Section 3)
TWA: Time-weighted average. (Section 8).
STEL: Short-term exposure limit. (Section 8).
DNEL: Derived No Effect Level (Section 8).
PNEC: Predicted No Effect Concentration (Section 8).
EC50: Effective Concentration, 50 percent. (Section 12).
LC50: Lethal Concentration, 50 percent. (Section 11/12).
LD50: Lethal Dose, 50 percent. (Section 11).
PBT: Persistent, Bioaccumulative, Toxic. (Section 12).
vPvB: very Persistent and very Bioaccumulative. (Section 12).

Telephone: (44)01827 255719
Email: distributors@img-limited.co.uk
Industrial Maintenance Group Distributors
Riverside Industrial Estate
Fazeley, Tamworth
Staffordshire, B78 3RW

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.