

SAFETY DATA SHEET

RODDING COMPOUND / REINFORCING RESIN (RD 40): PART A

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

Product name: RODDING COMPOUND / REINFORCING RESIN (RD 40): PART A
Use of substance / preparation: Embedding resin for Quartz, Stone and Steel or FRP Reinforcing rods.
Company name: Integra Adhesives Inc.
Unit 4, 33759 Morey Avenue
Abbotsford
British Columbia
V2S 2W5
Canada
Tel: +1 604 850 1321
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Emergency tel: +44 (0)1604 521065
Email: contact@integra-adhesives.com

2. HAZARDS IDENTIFICATION

Main hazards: Flammable. Harmful by inhalation. Irritating to eyes and skin.
Workplace exposure limit: This substance does not have a workplace exposure limit.
PBT: This substance is not identified as a PBT substance.
Directive 1999/45/EC: This preparation meets the criteria for classification as dangerous in accordance with Directive 1999/45/EC.
Other hazards: In use, may form flammable / explosive vapour-air mixture.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients: STYRENE 50-70%
EINECS: 202-851-5 CAS: 100-42-5
[-] R10; [Xn] R20; [Xi] R36/38

4. FIRST AID MEASURES

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.
Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.
Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.
Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious, check for breathing and apply artificial respiration if necessary. Consult a doctor.

5. FIRE FIGHTING MEASURES

Extinguishing media: Alcohol or polymer foam. Carbon dioxide. Dry chemical powder. Use water spray to cool containers.
Exposure hazards: Flammable. In combustion emits toxic fumes. Forms explosive air-vapour mixture.
Protection of fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid. Eliminate all sources of ignition.
Environmental precautions:	Do not discharge into drains or rivers. Contain the spillage using bunding.
Clean-up procedures:	Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Do not use equipment in clean-up procedure which may produce sparks.

7. HANDLING AND STORAGE

Handling requirements:	Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air. Smoking is forbidden. Use non-sparking tools.
Storage conditions:	Store in cool, well ventilated area. Keep container tightly closed. Keep away from sources of ignition. Prevent the build up of electrostatic charge in the immediate area. Ensure lighting and electrical equipment are not a source of ignition.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Hazardous ingredients:	STYRENE UK - 8 hour TWA: 430 mg/m ³ UK - 15 min. STEL: 1080 mg/m ³
Engineering measures:	Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.
Respiratory protection:	Respiratory protective device with particle filter. Gas/vapour filter, type A: organic vapours (EN141).
Hand protection:	Butyl gloves.
Eye protection:	Safety goggles. Ensure eye bath is to hand.
Skin protection:	Impermeable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

State:	Liquid
Colour:	Pale yellow
Odour:	Pungent
Oxidising:	Non-oxidising (by EC criteria)
Solubility in water:	Insoluble
Flammability limits %: lower:	0.9
upper:	6.1
Flash point °C:	31
Autoflammability °C:	490
Vapour pressure:	0.85kPa
Relative density:	1.32

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions. Stable at room temperature. May polymerise on exposure to light. May undergo autopolymerisation.
Conditions to avoid:	Heat. Hot surfaces. Sources of ignition. Flames.
Materials to avoid:	Oxygen. Strong oxidising agents. Strong acids.

Haz. decomp. products: In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Acute effects: Harmful by inhalation. Irritating to eyes and skin.

11. TOXICOLOGICAL INFORMATION (SYMPTOMS)

Skin contact: There may be irritation and redness at the site of contact.
Eye contact: There may be irritation and redness. The eyes may water profusely.
Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.
Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

12. ECOLOGICAL INFORMATION

Mobility: Readily absorbed into soil.
Persistence and degradability: No data available.
Bioaccumulative potential: No data available.
Other adverse effects: Negligible ecotoxicity.
PBT identification: This substance is not identified as a PBT substance.

13. DISPOSAL CONSIDERATIONS

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company. Mix or dissolve with a combustible material and burn in a chemical incinerator equipped with afterburners and scrubbers.
Disposal of packaging: Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.
NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION

ADR / RID

UN no: 1133
Packing group: II
Shipping name: ADHESIVES
Labelling: 3

ADR Class: 3
Classification code: F1
Hazard ID no: 33



IMDG / IMO

UN no: 1133
Packing group: II

Class: 3
EmS: F-E,S-D

Marine pollutant: .

Labelling: 3

IATA / ICAO

UN no: 1133

Packing group: II

Labelling: 3

Class: 3

Packing instructions: 305(P&CA);
307(CAO)

15. REGULATORY INFORMATION

Hazard symbols:

Harmful.
Flammable.



Risk phrases:

R10: Flammable.
R20: Harmful by inhalation.
R36/38: Irritating to eyes and skin.

Safety phrases:

S2: Keep out of the reach of children.
S23: Do not breathe vapours.
S24/25: Avoid contact with skin and eyes.
S37: Wear suitable gloves.

**Seveso II guideline:
Note:**

Yes
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.

16. OTHER INFORMATION

Other information:

This safety data sheet is prepared in accordance with Regulation (EC) No 1907/2006.

Risk phrases used in s.3:

* indicates text in the SDS which has changed since the last revision.
R10: Flammable.
R20: Harmful by inhalation.
R36/38: Irritating to eyes and skin.

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.

SAFETY DATA SHEET

RODDING COMPOUND / REINFORCING RESIN (RD 40): PART B

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

Product name: RODDING COMPOUND / REINFORCING RESIN (RD 40): PART B
Use of substance / preparation: Embedding resin for Quartz, Stone and Steel or FRP Reinforcing rods.
Company name: Integra Adhesives Inc.
Unit 4, 33759 Morey Avenue
Abbotsford
British Columbia
V2S 2W5
Canada
Tel: +1 604 850 1321
Fax: +1 604 850 1354
Emergency tel: +44 (0)1604 521065
Email: contact@integra-adhesives.com

2. HAZARDS IDENTIFICATION

Main hazards: May cause harm to the unborn child. Irritating to eyes and skin. May cause sensitisation by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Possible risk of impaired fertility.

Workplace exposure limit: This substance does not have a workplace exposure limit.
PBT: This substance is not identified as a PBT substance.
Directive 1999/45/EC: This preparation meets the criteria for classification as dangerous in accordance with Directive 1999/45/EC.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients:

- DIBENZOYL PEROXIDE 1-10%
EINECS: 202-327-6 CAS: 94-36-0
[E] R2; [Xi] R36; [Sens.] R43
- DIBUTYL PHTHALATE 1-10%
EINECS: 201-557-4 CAS: 84-74-2
[T] R61; [N] R50; [Xn] R62
- BISPHENOL A-(EPICHLORHYDRIN) {REACTION PRODUCT} 70-90%
EINECS: 500-033-5 CAS: 25068-38-6
[Xi] R36/38; [Sens.] R43; [N] R51/53

4. FIRST AID MEASURES

Skin contact: Wash immediately with plenty of soap and water. Remove all contaminated clothes and footwear immediately unless stuck to skin. Transfer to hospital if there are burns or symptoms of poisoning.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Wash out mouth with water. If conscious, give half a litre of water to drink immediately. If unconscious, check for breathing and apply artificial respiration if necessary.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious, check for breathing and apply artificial respiration if necessary. Move to fresh air in case of accidental inhalation of vapours. Consult a doctor.

5. FIRE FIGHTING MEASURES

Extinguishing media:	Suitable extinguishing media for the surrounding fire should be used.
Exposure hazards:	In combustion emits toxic fumes.
Protection of fire-fighters:	Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Refer to section 8 of SDS for personal protection details. Mark out the contaminated area with signs and prevent access to unauthorised personnel.
Environmental precautions:	Do not discharge into drains or rivers. Contain the spillage using bunding.
Clean-up procedures:	Transfer to a closable, labelled salvage container for disposal by an appropriate method. Clean-up should be dealt with only by qualified personnel familiar with the specific substance.

7. HANDLING AND STORAGE

Handling requirements:	Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid direct contact with the substance.
Storage conditions:	Store in cool, well ventilated area. Keep container tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Hazardous ingredients:	DIBENZOYL PEROXIDE UK - 8 hour TWA: 5 mg/m ³
Engineering measures:	Ensure there is sufficient ventilation of the area.
Respiratory protection:	Respiratory protective device with particle filter. Gas/vapour filter, type A: organic vapours (EN141).
Hand protection:	Butyl gloves.
Eye protection:	Safety goggles. Ensure eye bath is to hand.
Skin protection:	Protective clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

State:	Paste
Odour:	Barely perceptible odour
Oxidising:	Non-oxidising (by EC criteria)
Solubility in water:	Slightly soluble
Melting point/range °C:	0
Relative density:	1.11

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions. May polymerise on exposure to light.
Conditions to avoid:	Heat. Direct sunlight.
Materials to avoid:	Strong oxidising agents. Strong acids.
Haz. decomp. products:	In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Acute effects:	Irritating to eyes and skin.
Sensitisation:	May cause sensitisation by skin contact.
CMR effects:	Possible risk of impaired fertility.

11. TOXICOLOGICAL INFORMATION (SYMPTOMS)

Skin contact:	There may be mild irritation at the site of contact.
Eye contact:	There may be irritation and redness.
Ingestion:	There may be irritation of the throat.
Inhalation:	There may be irritation of the throat with a feeling of tightness in the chest.

12. ECOLOGICAL INFORMATION

Persistence and degradability:	No data available.
Bioaccumulative potential:	No data available.
Other adverse effects:	Toxic to aquatic organisms. Toxic to soil organisms.
PBT identification:	This substance is not identified as a PBT substance.

13. DISPOSAL CONSIDERATIONS

Disposal operations:	Transfer to a suitable container and arrange for collection by specialised disposal company. Mix or dissolve with a combustible material and burn in a chemical incinerator equipped with afterburners and scrubbers.
Disposal of packaging:	Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.
NB:	The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION

ADR / RID

UN no:	3077	ADR Class:	9
Packing group:	III	Classification code:	M7
Shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (BISPHENOL A-(EPICHLORHYDRIN) {REACTION PRODUCT})		
Labelling:	9	Hazard ID no:	90




IMDG / IMO

UN no:	3077	Class:	9
Packing group:	III	EmS:	NONE
Marine pollutant:	.	Labelling:	9

IATA / ICAO

UN no:	3077	Class:	9
Packing group:	III	Packing instructions:	911
Labelling:	9		

15. REGULATORY INFORMATION

Hazard symbols:	Toxic. Dangerous for the environment.
	
Risk phrases:	* R61: May cause harm to the unborn child. R36/38: Irritating to eyes and skin. R43: May cause sensitisation by skin contact. R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R62: Possible risk of impaired fertility.
Safety phrases:	* S36/37: Wear suitable protective clothing and gloves. S38: In case of insufficient ventilation, wear suitable respiratory equipment. S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S53: Avoid exposure - obtain special instructions before use. S61: Avoid release to the environment. Refer to special instructions / safety data sheets.
Precautionary phrases:	* Restricted to professional users.
Seveso II guideline:	Yes
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.

16. OTHER INFORMATION

Other information:	This safety data sheet is prepared in accordance with Regulation (EC) No 1907/2006.
Risk phrases used in s.3:	* indicates text in the SDS which has changed since the last revision. R2: Risk of explosion by shock, friction, fire or other sources of ignition. R36: Irritating to eyes. R43: May cause sensitisation by skin contact. R61: May cause harm to the unborn child. R50: Very toxic to aquatic organisms. R62: Possible risk of impaired fertility. R36/38: Irritating to eyes and skin. R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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.