

SAFETY DATA SHEET

SUBSTRATE BONDER SB100 / MOOGLOO: PART A

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

Product name: SUBSTRATE BONDER SB100 / MOOGLOO: PART A
Use of substance / preparation: Bonding agent for acrylic and polyester sheets.
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: Harmful by inhalation. Irritating to eyes, respiratory system and skin. May cause sensitisation by inhalation and skin contact.
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: DIPHENYLMETHANE DIISOCYANATE (ISOMERS AND HOMOLOGUES) 50-70%
CAS: 9016-87-9
[Xn] R20; [Xi] R36/37/38; [Sens.] R42
• DIPHENYLMETHANE-4,4'-DI-ISOCYANATE 30-50%
EINECS: 202-966-0 CAS: 101-68-8
[Xn] R20; [Xi] R36/37/38; [Sens.] R42/43

4. FIRST AID MEASURES

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.
Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.
Ingestion: Do not induce vomiting. Wash out mouth with water. Give 1 cup of water to drink every 10 minutes. Consult a doctor.
Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor..

5. FIRE FIGHTING MEASURES

Extinguishing media: Dry chemical powder. Carbon dioxide. Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.
Exposure hazards: In combustion emits toxic fumes of nitrogen oxides. In combustion emits toxic fumes of carbon dioxide / carbon monoxide. In combustion emits toxic fumes of hydrogen cyanide.
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.
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. Clean-up should be dealt with only by qualified personnel familiar with the specific substance.

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.
Storage conditions:	Store in cool, well ventilated area. Keep container tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Hazardous ingredients:	DIPHENYLMETHANE DIISOCYANATE (ISOMERS AND HOMOLOGUES) UK - 8 hour TWA: 0.02 mg/m ³ UK - 15 min. STEL: 0.07 mg/m ³ • DIPHENYLMETHANE-4,4'-DI-ISOCYANATE UK - 8 hour TWA: 0.02 mg/m ³ UK - 15 min. STEL: 0.07 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:	Liquid
Colour:	Off-white
Odour:	Barely perceptible odour
Oxidising:	Non-oxidising (by EC criteria)
Solubility in water:	Reacts with water.
Boiling point/range °C:	>316
Melting point/range °C:	<0
Flash point °C:	190
Vapour pressure:	0.66-1.3kPa
Relative density:	1.22

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions. May undergo autopolymerisation.
Conditions to avoid:	Heat.
Materials to avoid:	Strong oxidising agents. Strong acids. Strong acids.

Haz. decomp. products: In combustion emits toxic fumes.

11. TOXICOLOGICAL INFORMATION

Acute effects: Harmful by inhalation. Irritating to eyes, respiratory system and skin.
Sensitisation: May cause sensitisation by inhalation and skin contact.

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.
Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

12. ECOLOGICAL INFORMATION

Mobility: Insoluble in water.
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. D10 Incineration on land.
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: Not Classified.

IMDG / IMO

UN no: Not Classified.

IATA / ICAO

UN no: Not Classified

15. REGULATORY INFORMATION

Hazard symbols: Harmful.



Risk phrases:	R20: Harmful by inhalation. R36/37/38: Irritating to eyes, respiratory system and skin. R42/43: May cause sensitisation by inhalation and skin contact.
Safety phrases:	S23: Do not breathe fumes. S24: Avoid contact with skin. S37: Wear suitable gloves. S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S63: In case of accident by inhalation, remove casualty to fresh air and keep at rest.
Precautionary phrases: Note:	Contains isocyanates. See information supplied by the manufacturer. 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. R20: Harmful by inhalation. R36/37/38: Irritating to eyes, respiratory system and skin. R42: May cause sensitisation by inhalation. R42/43: May cause sensitisation by inhalation and skin contact.
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

SUBSTRATE BONDER SB100 / MOOGLOO: PART B

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

Product name: SUBSTRATE BONDER SB100 / MOOGLOO: PART B
Use of substance / preparation: Bonding agent for acrylic and polyester sheets.
Company name: Integra Adhesives Inc.
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Canada
Tel: +1 604 850 1321
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Emergency tel: +44 (0)1604 521065
Email: contact@integra-adhesives.com

2. HAZARDS IDENTIFICATION

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 does not meet the criteria for classification as dangerous in accordance with Directive 1999/45/EC.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients: 2,2'-OXYBISETHANOL 1-10%
EINECS: 203-872-2 CAS: 111-46-6
[Xn] R22

4. FIRST AID MEASURES

Skin contact: Wash immediately with plenty of soap and water.
Eye contact: Bathe the eye with running water for 15 minutes.
Ingestion: Wash out mouth with water.
Inhalation: Consult a doctor.

5. FIRE FIGHTING MEASURES

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used.
Use water spray to cool containers.
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. Turn leaking containers leak-side up to prevent the escape of liquid.
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.

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:	2,2'-OXYBISETHANOL UK - 8 hour TWA: 101 mg/m ³
Engineering measures:	Ensure there is sufficient ventilation of the area.
Respiratory protection:	Respiratory protection not required.
Hand protection:	Butyl gloves.
Eye protection:	Safety goggles. Ensure eye bath is to hand.
Skin protection:	Protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

State:	Liquid
Colour:	Off-white
Odour:	Barely perceptible odour
Oxidising:	Non-oxidising (by EC criteria)
Solubility in water:	Slightly soluble
Boiling point/range°C:	>100
Melting point/range°C:	<0
Flash point°C:	195
Vapour pressure:	1060.4kPA
Relative density:	1.44

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to avoid:	Heat.
Materials to avoid:	Strong oxidising agents. Strong acids. Strong bases.
Haz. decomp. products:	In combustion emits toxic fumes.

11. TOXICOLOGICAL INFORMATION

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:	No symptoms.

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: D1 Tipping above or underground (e.g. landfill, etc.).
Disposal of packaging: Dispose of as normal industrial waste.
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: Not Classified.

IMDG / IMO

UN no: Not Classified.

IATA / ICAO

UN no: Not Classified

15. REGULATORY INFORMATION

Hazard symbols: No significant hazard.
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.
Legal disclaimer: R22: Harmful if swallowed.
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.