Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the Canadian Hazardous Products Regulations.

SECTION 1: Identification

1.1. Product identifier

SCOTCH-WELD(TM) STRUCTURAL ADHESIVE FILM, AF-163-2

Product Identification Numbers

62-0080-5305-0	62-0080-5306-8	62-0086-5305-7	62-0086-5306-5	62-0182-3905-3
62-0182-5301-3	62-0182-5302-1	62-0182-5305-4	62-0187-0000-5	62-0187-0115-1
62-0187-0120-1	62-0187-0140-9	62-0187-0155-7	62-0187-0165-6	62-0187-0305-8
62-0187-0455-1	62-0187-0459-3	62-0187-0653-1	62-0187-0835-4	62-0187-1005-3
62-0187-1105-1	62-0187-1215-8	62-0187-1500-3	62-0187-1600-1	62-0187-1605-0
62-0187-1685-2	62-0187-1701-7	62-0187-1736-3	62-0187-1750-4	62-0187-1755-3
62-0187-2125-8	62-0187-2205-8	62-0187-2320-5	62-0187-2405-4	62-0187-2505-1
62-0187-2507-7	62-0187-2515-0	62-0187-2805-5	62-0187-2850-1	62-0187-2895-6
62-0187-2920-2	62-0187-3305-5	62-0187-3902-9	62-0187-3905-2	62-0187-3906-0
62-0187-4205-6	62-0187-4355-9	62-0187-4356-7	62-0187-4505-9	62-0187-4506-7
62-0187-4805-3	62-0187-5306-1	62-0187-5307-9	62-0187-5308-7	62-0187-5309-5
62-0187-5310-3	62-0187-5335-0	62-0187-5338-4	62-0187-5345-9	62-0187-5348-3
62-0187-5349-1	62-0187-6005-8	62-0188-3905-0	62-0188-3906-8	62-0189-5305-9
62-0189-5306-7	62-0189-5309-1	62-0189-6005-4	62-0197-0135-8	62-0197-0305-7
62-0197-2205-7	62-0197-2895-5	62-0197-3905-1	62-0197-3906-9	62-0197-3907-7
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62-2627-5307-2	62-2631-5305-8	62-2631-5306-6	62-2634-5305-2	62-2634-5306-0
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62-3064-5306-9	62-3064-5309-3	62-3064-5338-2	62-3074-5306-8	62-3077-6005-8
62-3087-0000-4	62-3087-0455-0	62-3087-3305-4	62-3087-3905-1	62-3087-3906-9
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62-3087-5305-2	62-3087-5309-4	62-3087-5338-3	62-3087-5345-8	62-3087-5505-7
62-3087-6009-9	62-3137-3905-4	62-3137-4505-1	62-3137-5305-5	62-3137-5306-3
62-3146-0155-0	62-3146-0355-6	62-3146-0455-4	62-3146-1205-2	62-3146-3905-5
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87-2500-0393-3	87-3300-0007-3	87-3300-0008-1	87-3300-0013-1	87-3300-0014-9
87-3300-0015-6	87-3300-0019-8	87-3300-0020-6	87-3300-0021-4	87-3300-0028-9
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87-3300-0505-6	87-3300-0506-4	87-3300-0507-2	87-3300-0508-0	87-3300-0526-2
87-3300-0527-0	87-3300-0530-4	87-3300-0531-2	87-3300-0532-0	87-3300-0533-8
87-3300-0543-7	87-3300-0544-5	87-3300-0545-2	87-3300-0546-0	87-3300-0547-8
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87-3300-0582-5	87-3300-0583-3	87-3300-0584-1	87-3300-0614-6	87-3300-0615-3
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FS-9100-3923-9	FS-9100-3929-6	FS-9100-3930-4	FS-9100-3934-6	FS-9100-3937-9
FS-9100-3939-5	FS-9100-3942-9	FS-9100-3943-7	FS-9100-4121-9	FS-9100-4345-4
FS-9100-5025-1	XA-0067-1447-2			

1.2. Recommended use and restrictions on use

Intended Use
Structural Film Adhesive.

Specific Use
Structural Adhesive Film for Bonding Applications

Restrictions on use
Not applicable

1.3. Supplier's details

Company:	3M Canada Company
Division:	Automotive and Aerospace Solutions Division
Address:	1840 Oxford Street East, Post Office Box 5757, London, Ontario N6A 4T1
Telephone:	(800) 364-3577
Website:	www.3M.ca

1.4. Emergency telephone number
Medical Emergency Telephone:1-800-3M HELPS / 1-800-364-3577; Transportation Emergency Telephone (CANUTEC): (613) 996-6666

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture
Not classified according to the Canadian Hazardous Products Regulation.

2.2. Label elements
Signal word
Not applicable.

Symbols
Not applicable.

Pictograms
Not applicable.

2.3. Other hazards
None known.

60% of the mixture consists of ingredients of unknown acute oral toxicity.

SECTION 3: Composition/information on ingredients

This material is a mixture.

Ingredient	C.A.S. No.	% by Wt	Common Name
EPOXY RESIN REACTION PRODUCT	None	45 - 65	Not Applicable
Bisphenol A	1675-54-3	10 - 20	Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-
Epoxy Resin C	25068-38-6	5 - 20	Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane
Dicyandiamide	461-58-5	< 5	Guanidine, cyano-
1,1'-(4-Methyl-M-Phenylene)Bis(3,3-Dimethylurea)	17526-94-2	< 1.5	Urea, N,N'-(4-methyl-1,3-phenylene)bis[N',N'-dimethyl-
3-(Trimethoxysilyl) Propyl Glycidyl Ether	2530-83-8	< 1	Silane, trimethoxy[3-(oxiranylmethoxy)propyl]-
Adipic Dihydrazide	1071-93-8	< 1	Hexanedioic acid, dihydrazide
PHENOL, 2,2',6-TRIBROMO-4,4'-ISOPROPYLIDENEDI-	6386-73-8	< 1	No Data Available
Dye	Trade Secret	< 0.2	Not Applicable

EPOXY RESIN REACTION PRODUCT is a non-hazardous Trade Secret material according to WHMIS criteria.
Dye is a non-hazardous Trade Secret material according to WHMIS criteria.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:
No need for first aid is anticipated. If symptoms develop, remove the affected person to fresh air. Get medical attention.

Skin Contact:
If exposed, wash with soap and water. If signs/symptoms develop, get medical attention.

Eye Contact:
If exposed, flush eyes with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms develop, get

medical attention.

If Swallowed:
Rinse mouth. If you feel unwell, get medical attention.

4.2. Most important symptoms and effects, both acute and delayed
No critical symptoms or effects. See Section 11.1, information on toxicological effects.

4.3. Indication of any immediate medical attention and special treatment required
Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media
In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

5.2. Special hazards arising from the substance or mixture
None inherent in this product.

Hazardous Decomposition or By-Products

Substance	Condition
Aldehydes	During Combustion
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion
Hydrogen Chloride	During Combustion
Hydrogen Cyanide	During Combustion
Ammonia	During Combustion
Oxides of Nitrogen	During Combustion

5.3. Special protective actions for fire-fighters
Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA). Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Ventilate the area with fresh air. Observe precautions from other sections.

6.2. Environmental precautions
Avoid release to the environment.

6.3. Methods and material for containment and cleaning up
Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
For industrial or professional use only. Not for consumer sale or use. Avoid release to the environment.

7.2. Conditions for safe storage including any incompatibilities
Store away from heat. Store away from amines.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits
No occupational exposure limit values exist for any of the components listed in Section 3 of this SDS.

8.2. Exposure controls

8.2.1. Engineering controls
Provide ventilated enclosure for curing. Curing enclosures must be exhausted to outdoors or to a suitable emission control device.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:
Safety Glasses with side shields

Skin/hand protection
No protective gloves required.

Respiratory protection
None required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Solid
Specific Physical Form:	Film
Colour	Red
Odour	Odourless
Odour threshold	*No Data Available*
pH	*Not Applicable*
Melting point/Freezing point	*No Data Available*
Boiling point	*Not Applicable*
Flash Point	No flash point
Evaporation rate	*Not Applicable*
Flammability (solid, gas)	Not Classified
Flammable Limits(LEL)	*Not Applicable*
Flammable Limits(UEL)	*Not Applicable*
Vapour Pressure	*Not Applicable*
Vapour Density and/or Relative Vapour Density	*Not Applicable*
Density	1.27 g/ml
Relative density	1.27 [*Ref Std:*WATER=1]
Water solubility	Nil
Solubility- non-water	*No Data Available*
Partition coefficient: n-octanol/ water	*Not Applicable*
Autoignition temperature	*Not Applicable*
Decomposition temperature	*No Data Available*
Viscosity/Kinematic Viscosity	*Not Applicable*
Volatile Organic Compounds	*No Data Available*

Percent volatile as Text	Negligible
VOC Less H2O & Exempt Solvents	*No Data Available*
Molecular weight	*No Data Available*

SECTION 10: Stability and reactivity

10.1. Reactivity
This material is considered to be non reactive under normal use conditions.

10.2. Chemical stability
Stable.

10.3. Possibility of hazardous reactions
Hazardous polymerization will not occur.

10.4. Conditions to avoid
Heat

10.5. Incompatible materials
Amines

10.6. Hazardous decomposition products

Substance	**Condition**
None known.	

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation:
No known health effects.

Skin Contact:
Contact with the skin during product use is not expected to result in significant irritation.

Eye Contact:
Contact with the eyes during product use is not expected to result in significant irritation.

Ingestion:
Physical Blockage: Signs/symptoms may include cramping, abdominal pain, and constipation.

Toxicological Data
If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or

the data are not sufficient for classification.

Acute Toxicity

Name	Route	Species	Value
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Bisphenol A	Dermal	Rat	LD50 > 1,600 mg/kg
Bisphenol A	Ingestion	Rat	LD50 > 1,000 mg/kg
Epoxy Resin C	Dermal	Rat	LD50 > 1,600 mg/kg
Epoxy Resin C	Ingestion	Rat	LD50 > 1,000 mg/kg
Dicyandiamide	Dermal	Rabbit	LD50 > 10,000 mg/kg
Dicyandiamide	Ingestion	Rat	LD50 > 30,000 mg/kg
1,1'-(4-Methyl-M-Phenylene)Bis(3,3-Dimethylurea)	Dermal	Rat	LD50 > 2,000 mg/kg
1,1'-(4-Methyl-M-Phenylene)Bis(3,3-Dimethylurea)	Ingestion	Rat	LD50 > 2,000 mg/kg
Adipic Dihydrazide	Ingestion	Mouse	LD50 > 5,000 mg/kg
3-(Trimethoxysilyl) Propyl Glycidyl Ether	Dermal	Rabbit	LD50 4,000 mg/kg
3-(Trimethoxysilyl) Propyl Glycidyl Ether	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 5.3 mg/l
3-(Trimethoxysilyl) Propyl Glycidyl Ether	Ingestion	Rat	LD50 7,010 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Overall product	Multiple animal species	No significant irritation
Bisphenol A	Rabbit	Mild irritant
Epoxy Resin C	Rabbit	Mild irritant
Dicyandiamide	Human and animal	Minimal irritation
1,1'-(4-Methyl-M-Phenylene)Bis(3,3-Dimethylurea)	Rabbit	No significant irritation
Adipic Dihydrazide	Rabbit	No significant irritation
3-(Trimethoxysilyl) Propyl Glycidyl Ether	Rabbit	Mild irritant

Serious Eye Damage/Irritation

Name	Species	Value
Bisphenol A	Rabbit	Moderate irritant
Epoxy Resin C	Rabbit	Moderate irritant
Dicyandiamide	Professional judgement	Mild irritant
1,1'-(4-Methyl-M-Phenylene)Bis(3,3-Dimethylurea)	Rabbit	No significant irritation
3-(Trimethoxysilyl) Propyl Glycidyl Ether	Rabbit	Corrosive

Skin Sensitization

Name	Species	Value
Overall product	Guinea pig	Not classified
Bisphenol A	Human and animal	Sensitizing
Epoxy Resin C	Human and animal	Sensitizing
Dicyandiamide	Guinea pig	Not classified
Adipic Dihydrazide	Guinea pig	Sensitizing
3-(Trimethoxysilyl) Propyl Glycidyl Ether	Guinea	Not classified

	pig	

Respiratory Sensitization

Name	Species	Value
Bisphenol A	Human	Not classified
Epoxy Resin C	Human	Not classified

Germ Cell Mutagenicity

Name	Route	Value
Bisphenol A	In vivo	Not mutagenic
Bisphenol A	In Vitro	Some positive data exist, but the data are not sufficient for classification
Epoxy Resin C	In vivo	Not mutagenic
Epoxy Resin C	In Vitro	Some positive data exist, but the data are not sufficient for classification
Dicyandiamide	In Vitro	Not mutagenic
Adipic Dihydrazide	In vivo	Not mutagenic
3-(Trimethoxysilyl) Propyl Glycidyl Ether	In vivo	Not mutagenic
3-(Trimethoxysilyl) Propyl Glycidyl Ether	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
Bisphenol A	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
Epoxy Resin C	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
Dicyandiamide	Ingestion	Rat	Not carcinogenic
3-(Trimethoxysilyl) Propyl Glycidyl Ether	Dermal	Mouse	Not carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Bisphenol A	Ingestion	Not classified for female reproduction	Rat	NOAEL 750 mg/kg/day	2 generation
Bisphenol A	Ingestion	Not classified for male reproduction	Rat	NOAEL 750 mg/kg/day	2 generation
Bisphenol A	Dermal	Not classified for development	Rabbit	NOAEL 300 mg/kg/day	during organogenesis
Bisphenol A	Ingestion	Not classified for development	Rat	NOAEL 750 mg/kg/day	2 generation
Epoxy Resin C	Ingestion	Not classified for female reproduction	Rat	NOAEL 750 mg/kg/day	2 generation
Epoxy Resin C	Ingestion	Not classified for male reproduction	Rat	NOAEL 750 mg/kg/day	2 generation
Epoxy Resin C	Dermal	Not classified for development	Rabbit	NOAEL 300 mg/kg/day	during organogenesis
Epoxy Resin C	Ingestion	Not classified for development	Rat	NOAEL 750 mg/kg/day	2 generation
Dicyandiamide	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating & during gestation
Dicyandiamide	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	44 days
Dicyandiamide	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	premating & during gestation
3-(Trimethoxysilyl) Propyl Glycidyl Ether	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000	1 generation

				mg/kg/day	
3-(Trimethoxysilyl) Propyl Glycidyl Ether	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	1 generation
3-(Trimethoxysilyl) Propyl Glycidyl Ether	Ingestion	Not classified for development	Rat	NOAEL 3,000 mg/kg/day	during organogenesis

Target Organ(s)

Specific Target Organ Toxicity - single exposure
For the component/components, either no data are currently available or the data are not sufficient for classification.

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Bisphenol A	Dermal	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	2 years
Bisphenol A	Dermal	nervous system	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
Bisphenol A	Ingestion	auditory system | heart | endocrine system | hematopoietic system | liver | eyes | kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
Epoxy Resin C	Dermal	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	2 years
Epoxy Resin C	Dermal	nervous system	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
Epoxy Resin C	Ingestion	auditory system | heart | endocrine system | hematopoietic system | liver | eyes | kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
Dicyandiamide	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 6,822 mg/kg/day	13 weeks
3-(Trimethoxysilyl) Propyl Glycidyl Ether	Ingestion	heart | endocrine system | bone, teeth, nails, and/or hair | hematopoietic system | liver | immune system | nervous system | kidney and/or bladder | respiratory system	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days

Aspiration Hazard
For the component/components, either no data are currently available or the data are not sufficient for classification.

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

SECTION 12: Ecological information

No data available.

SECTION 13: Disposal considerations

13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Dispose of completely cured (or polymerized) material in a permitted industrial waste facility. As a disposal alternative, incinerate uncured product in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Combustion products will include halogen acid (HCl/HF/HBr). Facility must be capable of handling halogenated materials. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

SECTION 14: Transport Information

For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501.

SECTION 15: Regulatory information

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

Global inventory status

Contact 3M for more information. The components of this material are in compliance with the provisions of Japan Chemical Substance Control Law. Certain restrictions may apply. Contact the selling division for additional information. The components of this product are in compliance with the new substance notification requirements of CEPA. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory.

SECTION 16: Other information

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.
Health: 0 **Flammability:** 1 **Instability:** 0 **Special Hazards:** None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

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