



## Safety Data Sheet

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

#### 1.1. Product identifier

3M™ Scotch-Weld™ Core Splice Adhesive Film AF 3024

#### Product Identification Numbers

62-3025-3506-7

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

##### Identified uses

Core splice film

#### 1.3. Details of the supplier of the safety data sheet

**ADDRESS:** 3M Israel, 91 Medinat Ha'Yehudim Street, Herzeliya 46120

**Telephone:** 09-961 5000

**E Mail:** innovation.il@mmm.com

**Website:** www.3M.com/il

#### 1.4. Emergency telephone number

09-961 5000

### SECTION 2: Hazard identification

#### 2.1. Classification of the substance or mixture

CLP REGULATION (EC) No 1272/2008

##### CLASSIFICATION:

Self-Reactive Substance or Mixture, Type D - Self-react. CD; H242

Carcinogenicity, Category 2 - Carc. 2; H351

Hazardous to the Aquatic Environment (Chronic), Category 2 - Aquatic Chronic 2; H411

For full text of H phrases, see Section 16.

#### 2.2. Label elements

CLP REGULATION (EC) No 1272/2008

##### SIGNAL WORD

Danger

**Symbols:**

GHS02 (Flame) |GHS08 (Health Hazard) |GHS09 (Environment) |

**Pictograms**



**Ingredients:**

Ingredient	C.A.S. No.	EC No.	% by Wt
3-(P-CHLOROPHENYL)-1,1-DIMETHYLUREA	150-68-5	205-766-1	1 - 5

**HAZARD STATEMENTS:**

H242	Heating may cause a fire.
H351	Suspected of causing cancer.
H411	Toxic to aquatic life with long lasting effects.

**PRECAUTIONARY STATEMENTS**

**Prevention:**

P210A	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P234	Keep only in original packaging.
P280B	Wear protective gloves and eye/face protection.

**Response:**

P370 + P378G	In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.
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**Storage:**

P411	Store at temperatures not exceeding 5C/40F.
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**Disposal:**

P501	Dispose of contents/container in accordance with applicable local/regional/national/international regulations.
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**SUPPLEMENTAL INFORMATION**

**Supplemental Hazard Statements:**

EUH208	Contains BISPHENOL A DIGLYCIDYL ETHER-BISPHENOL A COPOLYMER.   PHENOL-FORMALDEHYDE POLYMER GLYCIDYL ETHER.   Azobiscarboxamide.   4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER (MW unknown or <=700). May produce an allergic reaction.
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Contains 67% of components with unknown hazards to the aquatic environment.

**Notes on labelling:**

Test data from similar materials indicate that this film does not cause dermal sensitization and is, at most, a mild skin irritant. Eye Cat. 2A was not applied because of the nature of the material.

### 2.3. Other hazards

None known

## SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	EC No.	% by Wt	Classification
PHENOL-FORMALDEHYDE POLYMER GLYCIDYL ETHER	28064-14-4		40 - 70	**Skin Sens. 1**, H317
Synthetic Elastomer	Trade Secret		7 - 13	Substance not classified as hazardous
BISPHENOL A DIGLYCIDYL ETHER- BISPHENOL A COPOLYMER	25036-25-3		5 - 10	**Skin Irrit. 2**, H315; **Eye Irrit. 2**, H319; **Skin Sens. 1**, H317
OXIDE GLASS CHEMICALS	65997-17-3	266-046-0	5 - 10	Substance with a Community level exposure limit in the workplace
BIS(HYDROGENATED TALLOW ALKYL)DIMETHYL AMMONIUM SALTS WITH BENTONITE	68953-58-2	273-219-4	1 - 5	Substance not classified as hazardous
Dicyandiamide	461-58-5	207-312-8	1 - 5	Substance not classified as hazardous
3-(P-CHLOROPHENYL)-1,1- DIMETHYLUREA	150-68-5	205-766-1	1 - 5	**Acute Tox. 4**, H302; **Carc. 2**, H351; **Aquatic Acute 1**, H400,M=1; **Aquatic Chronic 1**, H410,M=10
Synthetic amorphous silica, fumed, crystalline-free	112945-52-5		1 - 5	Substance not classified as hazardous
4,4'-ISOPROPYLIDENEDIPHENOL- EPICHLOROHYDRIN POLYMER (MW unknown or <=700)	25068-38-6	500-033-5	1 - 5	**Skin Irrit. 2**, H315; **Eye Irrit. 2**, H319; **Skin Sens. 1**, H317; **Aquatic Chronic 2**, H411
Azobiscarboxamide	123-77-3	204-650-8	< 1	**Resp. Sens. 1**, H334

Please see section 16 for the full text of any H statements referred to in this section

For information on ingredient occupational exposure limits or PBT or vPvB status, see sections 8 and 12 of this SDS

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Inhalation:

Remove person to fresh air. If you feel unwell, get medical attention.

#### Skin Contact:

Wash with soap and water. If signs/symptoms develop, get medical attention.

#### Eye Contact:

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, 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

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. Extinguishing media

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

### 5.2. Special hazards arising from the substance or mixture

None inherent in this product.

### Hazardous Decomposition or By-Products

<u>Substance</u>	<u>Condition</u>
Aldehydes	During Combustion
Chlorine	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. Advice for fire-fighters

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

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

### 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 using non-sparking tools. 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.

### 6.4. Reference to other sections

Refer to Section 8 and Section 13 for more information

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid breathing of vapors created during cure cycle. Avoid breathing of dust created by cutting, sanding, grinding or

## 3M™ Scotch-Weld™ Core Splice Adhesive Film AF 3024

machining. For industrial or professional use only. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment.

### 7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep cool. Protect from sunlight. Store away from heat. Store at temperatures not exceeding 5C/40F. Keep only in original container. Store away from other materials. Store away from areas where product may come into contact with food or pharmaceuticals. Keep/store away from clothing and other combustible materials. Store away from amines.

### 7.3. Specific end use(s)

See information in Section 7.1 and 7.2 for handling and storage recommendations. See Section 8 for exposure controls and personal protection recommendations.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments
OXIDE GLASS CHEMICALS	65997-17-3	Manufacturer determined	TWA(as dust):10 mg/m3	

ACGIH : American Conference of Governmental Industrial Hygienists

CMRG : Chemical Manufacturer's Recommended Guidelines

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

### 8.2. Exposure controls

#### 8.2.1. Engineering controls

Provide ventilated enclosure for heat curing. Curing enclosures must be exhausted to outdoors or to a suitable emission control device. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment. Provide appropriate local exhaust ventilation for cutting, grinding, sanding or machining.

#### 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

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.

Gloves made from the following material(s) are recommended: Polymer laminate

##### Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part

of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapors and particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	Solid
Specific Physical Form:	Film
Appearance/Odor	Off-white, no odor.
Odor threshold	<i>No Data Available</i>
pH	<i>Not Applicable</i>
Boiling point/boiling range	<i>Not Applicable</i>
Melting point	<i>No Data Available</i>
Flammability (solid, gas)	Self-Reactive: Type F.
Explosive properties:	Not Classified
Oxidising properties:	Not Classified
Flash Point	No flash point
Autoignition temperature	<i>Not Applicable</i>
Flammable Limits(LEL)	<i>Not Applicable</i>
Flammable Limits(UEL)	<i>Not Applicable</i>
Vapor Pressure	<i>Not Applicable</i>
Relative Density	<i>Not Applicable</i>
Water solubility	Nil
Solubility- non-water	<i>No Data Available</i>
Partition coefficient: n-octanol/ water	<i>No Data Available</i>
Evaporation rate	<i>Not Applicable</i>
Vapor Density	<i>Not Applicable</i>
Decomposition temperature	<i>No Data Available</i>
Viscosity	<i>Not Applicable</i>
Density	<i>Not Applicable</i>

### 9.2. Other information

EU Volatile Organic Compounds	<i>No Data Available</i>
Molecular weight	<i>No Data Available</i>
Percent volatile	0 %

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

### 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 agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 11 are based on UN GHS calculation rules and classifications derived from 3M assessments.

**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:**

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Allergic Respiratory Reaction: Signs/symptoms may include difficulty breathing, wheezing, cough, and tightness of chest.

**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	Dermal		No data available; calculated ATE >5,000 mg/kg
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
PHENOL-FORMALDEHYDE POLYMER GLYCIDYL ETHER	Dermal	Rabbit	LD50 > 6,000 mg/kg
PHENOL-FORMALDEHYDE POLYMER GLYCIDYL ETHER	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 1.7 mg/l
PHENOL-FORMALDEHYDE POLYMER GLYCIDYL ETHER	Ingestion	Rat	LD50 > 4,000 mg/kg
Synthetic Elastomer	Dermal	Rabbit	LD50 > 15,000 mg/kg
Synthetic Elastomer	Ingestion	Rat	LD50 > 30,000 mg/kg
OXIDE GLASS CHEMICALS	Dermal		LD50 estimated to be > 5,000 mg/kg
OXIDE GLASS CHEMICALS	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg
BISPHENOL A DIGLYCIDYL ETHER-BISPHENOL A COPOLYMER	Dermal	Rat	LD50 > 1,600 mg/kg

**3M™ Scotch-Weld™ Core Splice Adhesive Film AF 3024**

BISPHENOL A DIGLYCIDYL ETHER-BISPHENOL A COPOLYMER	Ingestion	Rat	LD50 > 1,000 mg/kg
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROXYDRIN POLYMER (MW unknown or <=700)	Dermal	Rat	LD50 > 1,600 mg/kg
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROXYDRIN POLYMER (MW unknown or <=700)	Ingestion	Rat	LD50 > 1,000 mg/kg
Dicyandiamide	Dermal	Rabbit	LD50 > 10,000 mg/kg
Dicyandiamide	Ingestion	Rat	LD50 > 30,000 mg/kg
Synthetic amorphous silica, fumed, crystalline-free	Dermal	Rabbit	LD50 > 5,000 mg/kg
Synthetic amorphous silica, fumed, crystalline-free	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 0.691 mg/l
Synthetic amorphous silica, fumed, crystalline-free	Ingestion	Rat	LD50 > 5,110 mg/kg
BIS(HYDROGENATED TALLOW ALKYL)DIMETHYL AMMONIUM SALTS WITH BENTONITE	Dermal		LD50 estimated to be > 5,000 mg/kg
BIS(HYDROGENATED TALLOW ALKYL)DIMETHYL AMMONIUM SALTS WITH BENTONITE	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 12.6 mg/l
BIS(HYDROGENATED TALLOW ALKYL)DIMETHYL AMMONIUM SALTS WITH BENTONITE	Ingestion	Rat	LD50 > 5,000 mg/kg
3-(P-CHLOROPHENYL)-1,1-DIMETHYLUREA	Dermal	Rabbit	LD50 > 2,500 mg/kg
3-(P-CHLOROPHENYL)-1,1-DIMETHYLUREA	Ingestion	Rat	LD50 1,480 mg/kg
Azobiscarboxamide	Dermal	Rat	LD50 > 2,000 mg/kg
Azobiscarboxamide	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 6.1 mg/l
Azobiscarboxamide	Ingestion	Rat	LD50 > 5,000 mg/kg

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

Name	Species	Value
PHENOL-FORMALDEHYDE POLYMER GLYCIDYL ETHER	Rabbit	Minimal irritation
Synthetic Elastomer	Professional judgement	No significant irritation
OXIDE GLASS CHEMICALS	Professional judgement	No significant irritation
BISPHENOL A DIGLYCIDYL ETHER-BISPHENOL A COPOLYMER	Rabbit	Mild irritant
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROXYDRIN POLYMER (MW unknown or <=700)	Rabbit	Mild irritant
Dicyandiamide	Human and animal	Minimal irritation
Synthetic amorphous silica, fumed, crystalline-free	Rabbit	No significant irritation
BIS(HYDROGENATED TALLOW ALKYL)DIMETHYL AMMONIUM SALTS WITH BENTONITE	Rat	No significant irritation
3-(P-CHLOROPHENYL)-1,1-DIMETHYLUREA	similar compounds	Mild irritant
Azobiscarboxamide	Rabbit	No significant irritation

**Serious Eye Damage/Irritation**

Name	Species	Value
PHENOL-FORMALDEHYDE POLYMER GLYCIDYL ETHER	Rabbit	Mild irritant
Synthetic Elastomer	Professional judgement	No significant irritation
OXIDE GLASS CHEMICALS	Professional	No significant irritation



**3M™ Scotch-Weld™ Core Splice Adhesive Film AF 3024**

	judgement	
BISPHENOL A DIGLYCIDYL ETHER-BISPHENOL A COPOLYMER	Rabbit	Moderate irritant
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER (MW unknown or <=700)	Rabbit	Moderate irritant
Dicyandiamide	Professional judgement	Mild irritant
Synthetic amorphous silica, fumed, crystalline-free	Rabbit	No significant irritation
BIS(HYDROGENATED TALLOW ALKYL)DIMETHYL AMMONIUM SALTS WITH BENTONITE	Rabbit	No significant irritation
3-(P-CHLOROPHENYL)-1,1-DIMETHYLUREA	similar compounds	Moderate irritant
Azobiscarboxamide	Rabbit	No significant irritation

**Skin Sensitization**

Name	Species	Value
PHENOL-FORMALDEHYDE POLYMER GLYCIDYL ETHER	Human and animal	Sensitizing
BISPHENOL A DIGLYCIDYL ETHER-BISPHENOL A COPOLYMER	Human and animal	Sensitizing
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER (MW unknown or <=700)	Human and animal	Sensitizing
Dicyandiamide	Guinea pig	Not classified
Synthetic amorphous silica, fumed, crystalline-free	Human and animal	Not classified
Azobiscarboxamide	Human	Not classified

**Respiratory Sensitization**

Name	Species	Value
BISPHENOL A DIGLYCIDYL ETHER-BISPHENOL A COPOLYMER	Human	Not classified
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER (MW unknown or <=700)	Human	Not classified
Azobiscarboxamide	Human	Sensitizing

**Germ Cell Mutagenicity**

Name	Route	Value
PHENOL-FORMALDEHYDE POLYMER GLYCIDYL ETHER	In Vitro	Some positive data exist, but the data are not sufficient for classification
OXIDE GLASS CHEMICALS	In Vitro	Some positive data exist, but the data are not sufficient for classification
BISPHENOL A DIGLYCIDYL ETHER-BISPHENOL A COPOLYMER	In vivo	Not mutagenic
BISPHENOL A DIGLYCIDYL ETHER-BISPHENOL A COPOLYMER	In Vitro	Some positive data exist, but the data are not sufficient for classification
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER (MW unknown or <=700)	In vivo	Not mutagenic
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER (MW unknown or <=700)	In Vitro	Some positive data exist, but the data are not sufficient for classification
Dicyandiamide	In Vitro	Not mutagenic
Synthetic amorphous silica, fumed, crystalline-free	In Vitro	Not mutagenic
3-(P-CHLOROPHENYL)-1,1-DIMETHYLUREA	In Vitro	Some positive data exist, but the data are not sufficient for classification
3-(P-CHLOROPHENYL)-1,1-DIMETHYLUREA	In vivo	Some positive data exist, but the data are not sufficient for classification
Azobiscarboxamide	In vivo	Not mutagenic

**3M™ Scotch-Weld™ Core Splice Adhesive Film AF 3024**

Azobiscarboxamide	In Vitro	Some positive data exist, but the data are not sufficient for classification
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**Carcinogenicity**

Name	Route	Species	Value
OXIDE GLASS CHEMICALS	Inhalation	Multiple animal species	Some positive data exist, but the data are not sufficient for classification
BISPHENOL A DIGLYCIDYL ETHER-BISPHENOL A COPOLYMER	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROXYDRIN POLYMER (MW unknown or <=700)	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
Dicyandiamide	Ingestion	Rat	Not carcinogenic
Synthetic amorphous silica, fumed, crystalline-free	Not Specified	Mouse	Some positive data exist, but the data are not sufficient for classification
3-(P-CHLOROPHENYL)-1,1-DIMETHYLUREA	Ingestion	Rat	Some positive data exist, but the data are not sufficient for classification

**Reproductive Toxicity**
**Reproductive and/or Developmental Effects**

Name	Route	Value	Species	Test Result	Exposure Duration
BISPHENOL A DIGLYCIDYL ETHER-BISPHENOL A COPOLYMER	Ingestion	Not classified for female reproduction	Rat	NOAEL 750 mg/kg/day	2 generation
BISPHENOL A DIGLYCIDYL ETHER-BISPHENOL A COPOLYMER	Ingestion	Not classified for male reproduction	Rat	NOAEL 750 mg/kg/day	2 generation
BISPHENOL A DIGLYCIDYL ETHER-BISPHENOL A COPOLYMER	Dermal	Not classified for development	Rabbit	NOAEL 300 mg/kg/day	during organogenesis
BISPHENOL A DIGLYCIDYL ETHER-BISPHENOL A COPOLYMER	Ingestion	Not classified for development	Rat	NOAEL 750 mg/kg/day	2 generation
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROXYDRIN POLYMER (MW unknown or <=700)	Ingestion	Not classified for female reproduction	Rat	NOAEL 750 mg/kg/day	2 generation
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROXYDRIN POLYMER (MW unknown or <=700)	Ingestion	Not classified for male reproduction	Rat	NOAEL 750 mg/kg/day	2 generation
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROXYDRIN POLYMER (MW unknown or <=700)	Dermal	Not classified for development	Rabbit	NOAEL 300 mg/kg/day	during organogenesis
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROXYDRIN POLYMER (MW unknown or <=700)	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	prematuring & 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	prematuring & during gestation
Synthetic amorphous silica, fumed, crystalline-free	Ingestion	Not classified for female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
Synthetic amorphous silica, fumed, crystalline-free	Ingestion	Not classified for male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
Synthetic amorphous silica, fumed, crystalline-free	Ingestion	Not classified for development	Rat	NOAEL 1,350 mg/kg/day	during organogenesis
3-(P-CHLOROPHENYL)-1,1-DIMETHYLUREA	Ingestion	Not classified for development	Mouse	LOAEL 215 mg/kg/day	during gestation
Azobiscarboxamide	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	1 generation
Azobiscarboxamide	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000	1 generation

**3M™ Scotch-Weld™ Core Splice Adhesive Film AF 3024**

				mg/kg/day	
Azobiscarboxamide	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	1 generation

**Target Organ(s)**

**Specific Target Organ Toxicity - single exposure**

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
3-(P-CHLOROPHENYL)-1,1-DIMETHYLUREA	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar compounds	NOAEL Not available	
3-(P-CHLOROPHENYL)-1,1-DIMETHYLUREA	Ingestion	methemoglobinemia	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL Not available	not applicable

**Specific Target Organ Toxicity - repeated exposure**

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
OXIDE GLASS CHEMICALS	Inhalation	respiratory system	Not classified	Human	NOAEL not available	occupational exposure
BISPHENOL A DIGLYCIDYL ETHER-BISPHENOL A COPOLYMER	Dermal	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	2 years
BISPHENOL A DIGLYCIDYL ETHER-BISPHENOL A COPOLYMER	Dermal	nervous system	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
BISPHENOL A DIGLYCIDYL ETHER-BISPHENOL A COPOLYMER	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
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER (MW unknown or <=700)	Dermal	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	2 years
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER (MW unknown or <=700)	Dermal	nervous system	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER (MW unknown or <=700)	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
Synthetic amorphous silica, fumed, crystalline-free	Inhalation	respiratory system   silicosis	Not classified	Human	NOAEL Not available	occupational exposure
3-(P-CHLOROPHENYL)-1,1-DIMETHYLUREA	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Mouse	LOAEL 800 mg/kg/day	103 weeks
3-(P-CHLOROPHENYL)-1,1-DIMETHYLUREA	Ingestion	kidney and/or bladder	Not classified	Rat	LOAEL 65 mg/kg/day	103 weeks

**3M™ Scotch-Weld™ Core Splice Adhesive Film AF 3024**

3-(P-CHLOROPHENYL)-1,1-DIMETHYLUREA	Ingestion	immune system	Not classified	Rat	LOAEL 520 mg/kg/day	13 weeks
Azobiscarboxamide	Inhalation	respiratory system   heart   endocrine system   bone, teeth, nails, and/or hair   blood   liver   immune system   nervous system   kidney and/or bladder	Not classified	Rat	NOAEL 0.2 mg/l	90 days
Azobiscarboxamide	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 500 mg/kg/day	90 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**

The information below may not agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 12 are based on UN GHS calculation rules and classifications derived from 3M assessments.

**12.1. Toxicity**

No product test data available

Material	Cas #	Organism	Type	Exposure	Test Endpoint	Test Result
PHENOL-FORMALDEHYDE POLYMER GLYCIDYL ETHER	28064-14-4		Data not available or insufficient for classification			
Synthetic Elastomer	Trade Secret		Data not available or insufficient for classification			
BISPHENOL A DIGLYCIDYL ETHER-BISPHENOL A COPOLYMER	25036-25-3		Data not available or insufficient for classification			
OXIDE GLASS CHEMICALS	65997-17-3	Green algae	Experimental	72 hours	Effect Concentration 50%	>1,000 mg/l
OXIDE GLASS CHEMICALS	65997-17-3	Zebra Fish	Experimental	96 hours	Lethal Concentration 50%	>1,000 mg/l
OXIDE GLASS CHEMICALS	65997-17-3	Water flea	Experimental	72 hours	Effect Concentration 50%	>1,000 mg/l
OXIDE GLASS CHEMICALS	65997-17-3	Green algae	Experimental	72 hours	No obs Effect Conc	>=1,000 mg/l
3-(P-CHLOROPHENYL)-1,1-DIMETHYLUREA	150-68-5	Water flea	Experimental	26 hours	Effect Concentration 50%	106 mg/l
3-(P-CHLOROPHENYL)-1,1-DIMETHYLUREA	150-68-5	Fish other	Experimental	96 hours	Lethal Concentration 50%	3.3 mg/l
3-(P-CHLOROPHENYL)-1,1-DIMETHYLUREA	150-68-5	Green algae	Experimental	96 hours	No obs Effect Conc	0.01 mg/l
4,4'-ISOPROPYLIDENEDI	25068-38-6	Rainbow Trout	Experimental	96 hours	Lethal Concentration 50%	1.2 mg/l

**3M™ Scotch-Weld™ Core Splice Adhesive Film AF 3024**

PHENOL-EPICHLOROHYDRIN POLYMER (MW unknown or <=700)						
4,4'-ISOPROPYLIDENEDI PHENOL-EPICHLOROHYDRIN POLYMER (MW unknown or <=700)	25068-38-6	Green Algae	Experimental	72 hours	Effect Concentration 50%	>11 mg/l
4,4'-ISOPROPYLIDENEDI PHENOL-EPICHLOROHYDRIN POLYMER (MW unknown or <=700)	25068-38-6	Water flea	Estimated	48 hours	Lethal Concentration 50%	0.95 mg/l
4,4'-ISOPROPYLIDENEDI PHENOL-EPICHLOROHYDRIN POLYMER (MW unknown or <=700)	25068-38-6	Green Algae	Experimental	72 hours	No obs Effect Conc	4.2 mg/l
4,4'-ISOPROPYLIDENEDI PHENOL-EPICHLOROHYDRIN POLYMER (MW unknown or <=700)	25068-38-6	Water flea	Experimental	21 days	No obs Effect Conc	0.3 mg/l
BIS(HYDROGENATE D TALLOW ALKYL)DIMETHYL AMMONIUM SALTS WITH BENTONITE	68953-58-2	Green algae	Estimated	72 hours	Effect Concentration 50%	>100 mg/l
BIS(HYDROGENATE D TALLOW ALKYL)DIMETHYL AMMONIUM SALTS WITH BENTONITE	68953-58-2	Water flea	Estimated	48 hours	Effect Concentration 50%	>100 mg/l
BIS(HYDROGENATE D TALLOW ALKYL)DIMETHYL AMMONIUM SALTS WITH BENTONITE	68953-58-2	Zebra Fish	Estimated	96 hours	Lethal Concentration 50%	>100 mg/l
Dicyandiamide	461-58-5	Water flea	Experimental	48 hours	Effect Concentration 50%	>1,000 mg/l
Dicyandiamide	461-58-5	Ricefish	Experimental	96 hours	Lethal Concentration 50%	>100 mg/l
Dicyandiamide	461-58-5	Green algae	Experimental	72 hours	Effect Concentration 50%	>1,000 mg/l
Dicyandiamide	461-58-5	Water flea	Experimental	21 days	No obs Effect Conc	25 mg/l
Dicyandiamide	461-58-5	Green algae	Experimental	72 hours	No obs Effect Conc	310 mg/l
Synthetic amorphous silica, fumed, crystalline-free	112945-52-5	Water flea	Experimental	24 hours	Effect Concentration 50%	>100 mg/l
Synthetic amorphous silica, fumed, crystalline-free	112945-52-5	Zebra Fish	Experimental	96 hours	Lethal Concentration 50%	>100 mg/l
Synthetic amorphous silica, fumed, crystalline-free	112945-52-5	Green Algae	Experimental	72 hours	Effect Concentration 50%	>100 mg/l
Synthetic amorphous silica, fumed, crystalline-free	112945-52-5	Green Algae	Experimental	72 hours	No obs Effect Conc	60 mg/l
Azobiscarboxamide	123-77-3	Green algae	Experimental	72 hours	Effect Concentration 50%	19.7 mg/l

**3M™ Scotch-Weld™ Core Splice Adhesive Film AF 3024**

Azobiscarboxamide	123-77-3	Water flea	Experimental	48 hours	Effect Concentration 50%	11 mg/l
Azobiscarboxamide	123-77-3	Green algae	Experimental	72 hours	No obs Effect Conc	7.2 mg/l

**12.2. Persistence and degradability**

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
PHENOL-FORMALDEHYDE POLYMER GLYCIDYL ETHER	28064-14-4	Laboratory Biodegradation	28 days	Carbon dioxide evolution	10 % weight	OECD 301B - Mod. Sturm or CO2
Synthetic Elastomer	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
BISPHENOL A DIGLYCIDYL ETHER-BISPHENOL A COPOLYMER	25036-25-3	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
OXIDE GLASS CHEMICALS	65997-17-3	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
3-(P-CHLOROPHENYL)-1,1-DIMETHYLUREA	150-68-5	Estimated Biodegradation	28 days	Biological Oxygen Demand	2.1 % weight	OECD 301C - MITI (I)
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER (MW unknown or <=700)	25068-38-6	Experimental Biodegradation	28 days	Biological Oxygen Demand	0 % BOD/ThBOD	OECD 301C - MITI (I)
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER (MW unknown or <=700)	25068-38-6	Estimated Hydrolysis		Hydrolytic half-life	<2 days (t 1/2)	Other methods
BIS(HYDROGENATED TALLOW ALKYL)DIMETHYL AMMONIUM SALTS WITH BENTONITE	68953-58-2	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Dicyandiamide	461-58-5	Experimental Biodegradation	28 days	Biological Oxygen Demand	0 % weight	OECD 301F - Manometric Respiro
Synthetic amorphous silica, fumed, crystalline-free	112945-52-5	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Azobiscarboxamide	123-77-3	Experimental Biodegradation	28 days	Carbon dioxide evolution	70 % weight	OECD 301B - Mod. Sturm or CO2

**12.3. Bioaccumulative potential**

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
PHENOL-FORMALDEHYDE POLYMER GLYCIDYL ETHER	28064-14-4	Estimated Bioconcentration		Bioaccumulation Factor	<=7.6	Est: Bioconcentration factor
Synthetic Elastomer	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
BISPHENOL A DIGLYCIDYL ETHER-BISPHENOL A COPOLYMER	25036-25-3	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
OXIDE GLASS CHEMICALS	65997-17-3	Data not available or insufficient for classification	N/A	N/A	N/A	N/A

**3M™ Scotch-Weld™ Core Splice Adhesive Film AF 3024**

3-(P-CHLOROPHENYL)-1,1-DIMETHYLUREA	150-68-5	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	1.94	Other methods
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER (MW unknown or <=700)	25068-38-6	Experimental BCF-Carp	28 days	Bioaccumulation Factor	<=42	OECD 305E-Bioaccum Fl-thru fis
BIS(HYDROGENATED TALLOW ALKYL)DIMETHYLAMMONIUM SALTS WITH BENTONITE	68953-58-2	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Dicyandiamide	461-58-5	Experimental BCF-Carp	42 days	Bioaccumulation Factor	<=3.1	OECD 305C-Bioaccum degree fish
Synthetic amorphous silica, fumed, crystalline-free	112945-52-5	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Azobiscarboxamide	123-77-3	Experimental BCF-Carp	28 days	Bioaccumulation Factor	8.2	OECD 305E-Bioaccum Fl-thru fis

**12.4. Mobility in soil**

Please contact manufacturer for more details

**12.5. Results of the PBT and vPvB assessment**

No information available at this time, contact manufacturer for more details

**12.6. Other adverse effects**

No information available

**SECTION 13: Disposal considerations****13.1 Waste treatment 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.

The coding of a waste stream is based on the application of the product by the consumer. Since this is out of the control of 3M, no waste code(s) for products after use will be provided. Please refer to the European Waste Code (EWC - 2000/532/CE and amendments) to assign the correct waste code to your waste stream. Ensure national and/or regional regulations are complied with and always use a licensed waste contractor

**EU waste code (product as sold)**

080409\* Waste adhesives and sealants containing organic solvents or other dangerous substances

**SECTION 14: Transportation information**

ADR: UN3236; Self Reactive Solid Type D, temperature controlled, Control Temp.: 45C / Emergency Temp.: 50C / SADT> 50C (Dicyandiamide And Para-Chlorophenyl-Dimethylurea); 4.1; (D); SR2.

IATA: UN3236; Self Reactive Solid Type D, temperature controlled (Dicyandiamide And Para-Chlorophenyl-Dimethylurea);

4.1.  
 IMDG: UN3236; Self Reactive Solid Type D, temperature controlled (Dicyandiamide And Para-Chlorophenyl-Dimethylurea); 4.1; EMS: FF, SK; Marine Pollutant: Para-Chlorophenyl-Dime.

## SECTION 15: Regulatory information

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

#### Carcinogenicity

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>Classification</u>	<u>Regulation</u>
3-(P-CHLOROPHENYL)-1,1-DIMETHYLUREA	150-68-5	Carc. 2	Regulation (EC) No. 1272/2008, Table 3.1
3-(P-CHLOROPHENYL)-1,1-DIMETHYLUREA	150-68-5	Gr. 3: Not classifiable	International Agency for Research on Cancer

#### Global inventory status

Contact 3M for more information. The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). 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. The components of this product are in compliance with the chemical notification requirements of TSCA.

## SECTION 16: Other information

#### List of relevant H statements

H242	Heating may cause a fire.
H302	Harmful if swallowed.
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.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

#### Revision information:

Section 02: CLP Ingredient table information was modified.  
 Section 02: Label Elements: CLP Precautionary - Prevention information was modified.  
 Section 02: List of sensitizers information was modified.  
 Section 03: Composition/ Information of ingredients table information was modified.  
 Section 05: Fire - Advice for fire fighters information information was modified.  
 Section 06: Accidental release clean-up information information was modified.  
 Section 06: Accidental release personal information information was modified.  
 Section 09: Property description for optional properties information was modified.  
 Section 11: Acute Toxicity table information was modified.  
 Section 11: Carcinogenicity Table information was modified.  
 Section 11: Germ Cell Mutagenicity Table information was modified.  
 Section 11: Reproductive Toxicity Table information was modified.  
 Section 11: Respiratory Sensitization Table information was modified.  
 Section 11: Serious Eye Damage/Irritation Table information was modified.  
 Section 11: Skin Corrosion/Irritation Table information was modified.  
 Section 11: Skin Sensitization Table information was modified.  
 Section 11: Target Organs - Repeated Table information was modified.



Section 12: Component ecotoxicity information information was modified.  
Section 12: Persistence and Degradability information information was modified.  
Section 12: Biocumulative potential information information was modified.  
Section 13: Standard Phrase Category Waste GHS information was modified.  
Section 14: Transportation classification information was modified.

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.

**3M Israel SDSs are available at [www.3M.com/il](http://www.3M.com/il)**