



Safety Data Sheet

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Document Group: 11-1417-2 **Version Number:** 1.06
Revision Date: 07/12/2017 **Supersedes Date:** 07/03/2016
Transportation version number:

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

1.1. Product identifier

3M™ Scotch-Weld™ Epoxy Potting Compound/Adhesive DP270 Black

Product Identification Numbers

62-3266-1435-1 62-3266-3530-7 62-3266-3830-1

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

Identified uses

Structural adhesive

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

This product is a kit or a multipart product which consists of multiple, independently packaged components. An SDS for each of these components is included. Please do not separate the component SDSs from this cover page. The document numbers of the SDSs for components of this product are:

11-1418-0, 19-0425-9

TRANSPORTATION INFORMATION

KIT LABEL

2.1. Classification of the substance or mixture CLP REGULATION (EC) No 1272/2008

CLASSIFICATION:

Acute Toxicity, Category 3 - Acute Tox. 3; H311
Acute Toxicity, Category 4 - Acute Tox. 4; H302

Serious Eye Damage/Eye Irritation, Category 2 - Eye Irrit. 2; H319
Skin Corrosion/Irritation, Category 2 - Skin Irrit. 2; H315
Skin Sensitization, Category 1 - Skin Sens. 1; H317
Reproductive Toxicity, Category 1B - Repr. 1B; H360
Hazardous to the Aquatic Environment (Acute), Category 1 - Aquatic Acute 1; H400
Hazardous to the Aquatic Environment (Chronic), Category 1 - Aquatic Chronic 1; H410

For full text of H phrases, see Section 16.

2.2. Label elements

CLP REGULATION (EC) No 1272/2008

SIGNAL WORD

Danger

Symbols:

GHS06 (Skull and crossbones) | GHS08 (Health Hazard) | GHS09 (Environment) |

Pictograms



HAZARD STATEMENTS:

H311	Toxic in contact with skin.
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H360Fd	May damage fertility. Suspected of damaging the unborn child
H410	Very toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

Prevention:

P201	Obtain special instructions before use.
P280C	Wear protective gloves and protective clothing.

Response:

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P308 + P313	IF exposed or concerned: Get medical advice/attention.

Disposal:

P501	Dispose of contents/container in accordance with applicable local/regional/national/international regulations.
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For containers not exceeding 125 ml the following Hazard and Precautionary statements may be used:

<=125 ml Hazard statements

H311	Toxic in contact with skin.
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H317 May cause an allergic skin reaction.
H360Fd May damage fertility. Suspected of damaging the unborn child

<=125 ml Precautionary statements

Prevention:

P201 Obtain special instructions before use.
P280C Wear protective gloves and protective clothing.

Response:

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P308 + P313 IF exposed or concerned: Get medical advice/attention.

SUPPLEMENTAL INFORMATION

Supplemental Precautionary Statements:

Restricted to professional users.

Refer to Safety Data Sheet for component % unknown values (www.3M.com/msds).

Notes on labelling:

Test results indicate this material meets the classification criteria for eye and skin irritation, but not corrosion.

Revision information:

Kit Information: Component document group number(s) information was modified.



Safety Data Sheet

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Document Group:	11-1418-0	Version Number:	3.01
Revision Date:	10/09/2018	Supersedes Date:	27/04/2016
Transportation version number:			

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

1.1. Product identifier

3M™ Scotch-Weld™ Epoxy Potting Compound/Adhesive DP270 Black, Part B

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

Identified uses

Structural adhesive

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
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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:

Serious Eye Damage/Eye Irritation, Category 2 - Eye Irrit. 2; H319
Skin Corrosion/Irritation, Category 2 - Skin Irrit. 2; H315
Skin Sensitization, Category 1 - Skin Sens. 1; H317
Reproductive Toxicity, Category 1B - Repr. 1B; H360
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:

GHS07 (Exclamation mark) | GHS08 (Health Hazard) |GHS09 (Environment) |

Pictograms



Ingredients:

Ingredient	C.A.S. No.	EC No.	% by Wt
4,4'-ISOPROPYLIDENEDIPHENOL- EPICHLOROHYDRIN POLYMER	25068-38-6	500-033-5	90 - 99
Benzene, ethenyl-, homopolymer (oligomeric)	9003-53-6	500-008-9	1 - 10

HAZARD STATEMENTS:

H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H360F	May damage fertility.
H411	Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

Prevention:

P201	Obtain special instructions before use.
P280E	Wear protective gloves.

Response:

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P308 + P313	IF exposed or concerned: Get medical advice/attention.

Disposal:

P501	Dispose of contents/container in accordance with applicable local/regional/national/international regulations.
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For containers not exceeding 125 ml the following Hazard and Precautionary statements may be used:

<=125 ml Hazard statements

H317	May cause an allergic skin reaction.
H360F	May damage fertility.

<=125 ml Precautionary statements

Prevention:

P201	Obtain special instructions before use.
P280E	Wear protective gloves.

Response:

P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
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3M™ Scotch-Weld™ Epoxy Potting Compound/Adhesive DP270 Black, Part B

P308 + P313

IF exposed or concerned: Get medical advice/attention.

SUPPLEMENTAL INFORMATION**Supplemental Precautionary Statements:**

Restricted to professional users.

5% of the mixture consists of components of unknown acute oral toxicity.

Contains 6% of components with unknown hazards to the aquatic environment.

2.3. Other hazards

None known

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	EC No.	% by Wt	Classification
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER	25068-38-6	500-033-5	90 - 99	**Skin Irrit. 2**, H315; **Eye Irrit. 2**, H319; **Skin Sens. 1**, H317; **Aquatic Chronic 2**, H411
Benzene, ethenyl-, homopolymer (oligomeric)	9003-53-6	500-008-9	1 - 10	**Repr. 1B**, H360F
Carbon Black	1333-86-4	215-609-9	<= 1	Substance with a Community level exposure limit in the workplace

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:

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. 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 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

<u>Substance</u>	<u>Condition</u>
Aldehydes	During Combustion
Hydrocarbons	During Combustion
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion
Hydrogen Chloride	During Combustion
Ketones	During Combustion
Toxic Vapor, Gas, Particulate	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. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. 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. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

6.3. Methods and material for containment and cleaning up

Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. 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

For industrial or professional use only. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidizing

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agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (gloves, respirators, etc.) as required.

7.2. Conditions for safe storage including any incompatibilities

Store away from acids. Store away from oxidizing agents.

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
Carbon Black	1333-86-4	ACGIH	TWA(inhalable fraction):3 mg/m3	A3: Confirmed animal carcin.

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

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.

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:

Indirect Vented Goggles

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	Liquid
Appearance/Odor	black, very mild odor.
Odor threshold	<i>No Data Available</i>
pH	<i>Not Applicable</i>
Boiling point/boiling range	> 148.9 °C
Melting point	<i>No Data Available</i>
Flammability (solid, gas)	Not Applicable
Explosive properties:	Not Classified
Oxidising properties:	Not Classified
Flash Point	> 93.3 °C [Test Method:Closed Cup]
Autoignition temperature	<i>No Data Available</i>
Flammable Limits(LEL)	<i>Not Applicable</i>
Flammable Limits(UEL)	<i>Not Applicable</i>
Vapor Pressure	<=186,158.4 Pa [@ 55 °C]
Relative Density	1.15 [Ref Std:WATER=1]
Water solubility	Nil
Solubility- non-water	<i>No Data Available</i>
Partition coefficient: n-octanol/ water	<i>No Data Available</i>
Evaporation rate	<i>No Data Available</i>
Vapor Density	<i>Not Applicable</i>
Decomposition temperature	<i>No Data Available</i>
Viscosity	13,000 - 16,000 mPa-s [Details:CONDITIONS: (@ Room Temperature)]
Density	1.15 g/ml

9.2. Other information

EU Volatile Organic Compounds	<i>No Data Available</i>
Molecular weight	<i>No Data Available</i>

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 is generated during cure. Do not cure a mass larger than 50 grams in a confined space to prevent a premature exothermic reaction with production of intense heat and smoke.

10.5. Incompatible materials

Strong acids
Strong oxidizing agents

10.6. Hazardous decomposition products

<u>Substance</u>	<u>Condition</u>
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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.

Skin Contact:

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Eye Contact:

Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

May cause additional health effects (see below).

Additional Health Effects:

Reproductive/Developmental Toxicity:

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

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
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROXYDRIN POLYMER	Dermal	Rat	LD50 > 1,600 mg/kg
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROXYDRIN POLYMER	Ingestion	Rat	LD50 > 1,000 mg/kg
Carbon Black	Dermal	Rabbit	LD50 > 3,000 mg/kg
Carbon Black	Ingestion	Rat	LD50 > 8,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
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4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROXYDRIN POLYMER	Rabbit	Mild irritant
Carbon Black	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROXYDRIN POLYMER	Rabbit	Moderate irritant
Carbon Black	Rabbit	No significant irritation

Skin Sensitization

Name	Species	Value
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROXYDRIN POLYMER	Human and animal	Sensitizing

Respiratory Sensitization

Name	Species	Value
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROXYDRIN POLYMER	Human	Not classified

Germ Cell Mutagenicity

Name	Route	Value
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROXYDRIN POLYMER	In vivo	Not mutagenic
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROXYDRIN POLYMER	In Vitro	Some positive data exist, but the data are not sufficient for classification
Carbon Black	In Vitro	Not mutagenic
Carbon Black	In vivo	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROXYDRIN POLYMER	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
Carbon Black	Dermal	Mouse	Not carcinogenic
Carbon Black	Ingestion	Mouse	Not carcinogenic
Carbon Black	Inhalation	Rat	Carcinogenic

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

Name	Route	Value	Species	Test Result	Exposure Duration
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROXYDRIN POLYMER	Ingestion	Not classified for female reproduction	Rat	NOAEL 750 mg/kg/day	2 generation
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROXYDRIN POLYMER	Ingestion	Not classified for male reproduction	Rat	NOAEL 750 mg/kg/day	2 generation
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROXYDRIN POLYMER	Dermal	Not classified for development	Rabbit	NOAEL 300 mg/kg/day	during organogenesis
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROXYDRIN POLYMER	Ingestion	Not classified for development	Rat	NOAEL 750 mg/kg/day	2 generation
Benzene, ethenyl-, homopolymer (oligomeric)	Ingestion	Toxic to female reproduction	Rat	NOAEL 5 mg/kg/day	prematuring into lactation

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

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Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROXYDRIN POLYMER	Dermal	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	2 years
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROXYDRIN POLYMER	Dermal	nervous system	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROXYDRIN POLYMER	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
Carbon Black	Inhalation	pneumoconiosis	Not classified	Human	NOAEL Not available	occupational exposure

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
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROXYDRIN POLYMER	25068-38-6	Water flea	Estimated	48 hours	Lethal Concentration 50%	0.95 mg/l
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROXYDRIN POLYMER	25068-38-6	Green Algae	Experimental	72 hours	Effect Concentration 50%	>11 mg/l
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROXYDRIN POLYMER	25068-38-6	Rainbow Trout	Experimental	96 hours	Lethal Concentration 50%	1.2 mg/l
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROXYDRIN POLYMER	25068-38-6	Green Algae	Experimental	72 hours	No obs Effect Conc	4.2 mg/l
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROXYDRIN	25068-38-6	Water flea	Experimental	21 days	No obs Effect Conc	0.3 mg/l

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POLYMER						
Benzene, ethenyl-, homopolymer (oligomeric)	9003-53-6		Data not available or insufficient for classification			
Carbon Black	1333-86-4		Data not available or insufficient for classification			

12.2. Persistence and degradability

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
4,4'-ISOPROPYLIDENEDIPHE NOL-EPICHLOROHYDRIN POLYMER	25068-38-6	Estimated Hydrolysis		Hydrolytic half-life	<2 days (t 1/2)	Other methods
4,4'-ISOPROPYLIDENEDIPHE NOL-EPICHLOROHYDRIN POLYMER	25068-38-6	Experimental Biodegradation	28 days	Biological Oxygen Demand	0 % BOD/ThBOD	OECD 301C - MITI (I)
Benzene, ethenyl-, homopolymer (oligomeric)	9003-53-6	Data not availbl-insufficient			N/A	
Carbon Black	1333-86-4	Data not availbl-insufficient			N/A	

12.3. Bioaccumulative potential

Material	Cas No.	Test Type	Duration	Study Type	Test Result	Protocol
4,4'-ISOPROPYLIDENEDIPH ENOL-EPICHLOROHYDRIN POLYMER	25068-38-6	Experimental BCF-Carp	28 days	Bioaccumulation Factor	<=42	OECD 305E-Bioaccum Fl-thru fis
Benzene, ethenyl-, homopolymer (oligomeric)	9003-53-6	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Carbon Black	1333-86-4	Data not available or insufficient for classification	N/A	N/A	N/A	N/A

12.4. Mobility in soil

Please contact manufacturer for more details

12.5. Results of the PBT and vPvB assessment

This material does not contain any substances that are assessed to be a PBT or vPvB

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

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(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/IMDG/IATA: Not restricted for transport.

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>
Benzene, ethenyl-, homopolymer (oligomeric)	9003-53-6	Gr. 3: Not classifiable	International Agency for Research on Cancer
Carbon Black	1333-86-4	Grp. 2B: Possible human carc.	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 the Korea Chemical Control Act. Certain restrictions may apply. Contact the selling division for additional 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 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 material are in compliance with the provisions of Philippines RA 6969 requirements. 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. The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

SECTION 16: Other information

List of relevant H statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H360F	May damage fertility.
H411	Toxic to aquatic life with long lasting effects.

Revision information:

Section 02: <125ml Hazard - Health information was added.

Section 02: <125ml Precautionary - Prevention information was added.

Section 02: <125ml Precautionary - Response information was added.
Section 02: CLP Ingredient table information was modified.
Section 02: Label Elements: CLP Percent Unknown 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 05: Hazardous combustion products table information was modified.
Section 06: Accidental release clean-up information information was modified.
Section 08: Occupational exposure limit table information was modified.
Section 09: Flash point information information was modified.
Section 09: Property description for optional properties information was modified.
Section 09: Relative density information information was modified.
Section 09: Vapor pressure value information was modified.
Section 09: Viscosity information information was modified.
Section 11: Acute Toxicity table information was modified.
Section 11: Reproductive Toxicity Table information was modified.
Section 11: Respiratory Sensitization Table information was modified.
Section 11: Target Organs - Repeated Table information was modified.
Section 12: Component ecotoxicity information information was modified.
Section 12: No PBT/vPvB information available warning 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 15: Regulations - Inventories information was modified.

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3M Israel SDSs are available at www.3M.com/il



Safety Data Sheet

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Transportation version number:			

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

1.1. Product identifier

3M™ Scotch-Weld™ Epoxy Potting Compound/Adhesive DP270 Black, Part A

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

Identified uses

Structural adhesive

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:

Acute Toxicity, Category 3 - Acute Tox. 3; H311
Acute Toxicity, Category 4 - Acute Tox. 4; H302
Serious Eye Damage/Eye Irritation, Category 2 - Eye Irrit. 2; H319
Skin Corrosion/Irritation, Category 2 - Skin Irrit. 2; H315
Reproductive Toxicity, Category 2 - Repr. 2; H361
Hazardous to the Aquatic Environment (Acute), Category 1 - Aquatic Acute 1; H400
Hazardous to the Aquatic Environment (Chronic), Category 1 - Aquatic Chronic 1; H410

For full text of H phrases, see Section 16.

2.2. Label elements

CLP REGULATION (EC) No 1272/2008

SIGNAL WORD

Danger

Symbols:

GHS06 (Skull and crossbones) | GHS08 (Health Hazard) | GHS09 (Environment) |

Pictograms



Ingredients:

Ingredient	C.A.S. No.	EC No.	% by Wt
Phenol, 4-nonyl-, branched	84852-15-3	284-325-5	40 - 60
4,4'-METHYLENEBIS(2-METHYLCYCLOHEXYLAMINE)	6864-37-5	229-962-1	15 - 40
Benzyl Alcohol	100-51-6	202-859-9	1 - 10

HAZARD STATEMENTS:

H311	Toxic in contact with skin.
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H410	Very toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

Prevention:

P280C	Wear protective gloves and protective clothing.
P273	Avoid release to the environment.

Response:

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
--------------------	--

Disposal:

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

For containers not exceeding 125 ml the following Hazard and Precautionary statements may be used:

<=125 ml Hazard statements

H311	Toxic in contact with skin.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.

<=125 ml Precautionary statements

Prevention:

P280C	Wear protective gloves and protective clothing.
-------	---

3M™ Scotch-Weld™ Epoxy Potting Compound/Adhesive DP270 Black, Part A

10% of the mixture consists of components of unknown acute oral toxicity.
10% of the mixture consists of components of unknown acute dermal toxicity.

Contains 10% of components with unknown hazards to the aquatic environment.

Notes on labelling:

Test results indicate this material meets the classification criteria for eye and skin irritation, but not corrosion.

2.3. Other hazards

None known

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	EC No.	% by Wt	Classification
Phenol, 4-nonyl-, branched	84852-15-3	284-325-5	40 - 60	**Acute Tox. 4**, H302; **Skin Corr. 1B**, H314; **Repr. 2**, H361df; **Aquatic Acute 1**, H400,M=10; **Aquatic Chronic 1**, H410,M=10
4,4'-METHYLENEBIS(2-METHYLCYCLOHEXYLAMINE)	6864-37-5	229-962-1	15 - 40	**Acute Tox. 2**, H330; **Acute Tox. 3**, H311; **Acute Tox. 4**, H302; **Skin Corr. 1A**, H314; **Aquatic Chronic 2**, H411
Phenol, 2-nonyl-, branched	91672-41-2	294-048-1	< 10	Substance not classified as hazardous
Benzyl Alcohol	100-51-6	202-859-9	1 - 10	**Acute Tox. 4**, H332; **Acute Tox. 4**, H302
Dibenzyl Ether	103-50-4	203-118-2	< 0.5	**Aquatic Acute 1**, H400,M=1; **Aquatic Chronic 1**, H410,M=1

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:

Immediately wash with soap and water. Remove contaminated clothing. Get medical attention. Wash clothing before reuse.

Eye Contact:

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. 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 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

Amine Compounds
Carbon monoxide
Carbon dioxide
Oxides of Nitrogen
Toxic Vapor, Gas, Particulate

Condition

During Combustion
During Combustion
During Combustion
During Combustion
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. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. 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. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

6.3. Methods and material for containment and cleaning up

Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a metal container approved for use in transportation by appropriate authorities. The container must be lined with polyethylene plastic or contain a plastic drum liner made of polyethylene. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. 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

For industrial/occupational use only. Not for consumer sale or use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (gloves, respirators, etc.) as required.

7.2. Conditions for safe storage including any incompatibilities

Store away from acids. Store away from oxidizing agents.

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

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

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.

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:

Indirect Vented Goggles

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

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****Appearance****Physical state**

Liquid

Color

Colorless

Odor

Very Mild Odor, Pungent Odor

Odor threshold*No Data Available***pH***Not Applicable***Boiling point/boiling range**205 °C [*Details:CONDITIONS: @ 760mm Hg (benzyl alcohol)*]**Melting point***No Data Available***Flammability (solid, gas)**

Not Applicable

Explosive properties:

Not Classified

Oxidising properties:

Not Classified

Flash Point> 115.6 °C [*Test Method:Closed Cup*]**Autoignition temperature***No Data Available***Flammable Limits(LEL)***No Data Available***Flammable Limits(UEL)***No Data Available***Vapor Pressure**13.3 Pa [*Details:CONDITIONS: @ 86F (30C); 13.3mm Hg @ 212F (100C).*]**Relative Density**1 [*Ref Std:WATER=1*]**Water solubility**

Slight (less than 10%)

Solubility- non-water*No Data Available***Partition coefficient: n-octanol/ water***No Data Available***Evaporation rate***No Data Available***Vapor Density**3.72 [*Ref Std:AIR=1*]**Decomposition temperature***No Data Available***Viscosity**12,000 - 15,000 mPa-s [*Details:CONDITIONS: (@ Room Temperature)*]**Density**

1 g/ml

9.2. Other information**EU Volatile Organic Compounds***No Data Available***Molecular weight***No Data Available***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 is generated during cure. Do not cure a mass larger than 50 grams in a confined space to prevent a premature exothermic reaction with production of intense heat and smoke.

10.5. Incompatible materials

Strong acids

Strong oxidizing agents

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.

Skin Contact:

Toxic in contact with skin. Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, dryness, cracking, blistering, and pain.

Eye Contact:

Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

Ingestion:

Harmful if swallowed. Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

May cause additional health effects (see below).

Additional Health Effects:

Reproductive/Developmental Toxicity:

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

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 ATE200 - 1,000 mg/kg
Overall product	Ingestion		No data available; calculated ATE300 - 2,000 mg/kg
Phenol, 4-nonyl-, branched	Dermal	Rabbit	LD50 > 2,000 mg/kg
Phenol, 4-nonyl-, branched	Ingestion	Rat	LD50 1,531 mg/kg
4,4'-METHYLENEBIS(2-METHYLCYCLOHEXYLAMINE)	Dermal	Rabbit	LD50 > 200 mg/kg

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4,4'-METHYLENEBIS(2-METHYLCYCLOHEXYLAMINE)	Inhalation-Dust/Mist (4 hours)	Rat	LC50 0.42 mg/l
4,4'-METHYLENEBIS(2-METHYLCYCLOHEXYLAMINE)	Ingestion	Rat	LD50 > 320 mg/kg
Benzyl Alcohol	Inhalation-Dust/Mist (4 hours)	Rat	LC50 8.8 mg/l
Benzyl Alcohol	Ingestion	Rat	LD50 1,230 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Overall product	In vitro data	Irritant
Phenol, 4-nonyl-, branched	Rabbit	Corrosive
4,4'-METHYLENEBIS(2-METHYLCYCLOHEXYLAMINE)	Rabbit	Corrosive
Benzyl Alcohol	Multiple animal species	Mild irritant

Serious Eye Damage/Irritation

Name	Species	Value
Overall product	similar health hazards	Severe irritant
Phenol, 4-nonyl-, branched	Rabbit	Corrosive
4,4'-METHYLENEBIS(2-METHYLCYCLOHEXYLAMINE)	Rabbit	Corrosive
Benzyl Alcohol	Rabbit	Severe irritant

Skin Sensitization

Name	Species	Value
Phenol, 4-nonyl-, branched	Guinea pig	Not classified
4,4'-METHYLENEBIS(2-METHYLCYCLOHEXYLAMINE)	Guinea pig	Not classified
Benzyl Alcohol	Human and animal	Not classified

Respiratory Sensitization

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

Germ Cell Mutagenicity

Name	Route	Value
Phenol, 4-nonyl-, branched	In Vitro	Not mutagenic
Phenol, 4-nonyl-, branched	In vivo	Not mutagenic
4,4'-METHYLENEBIS(2-METHYLCYCLOHEXYLAMINE)	In Vitro	Not mutagenic
Benzyl Alcohol	In vivo	Not mutagenic
Benzyl Alcohol	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
Benzyl Alcohol	Ingestion	Multiple animal species	Not carcinogenic

Reproductive Toxicity

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Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
Phenol, 4-nonyl-, branched	Ingestion	Not classified for male reproduction	Rat	NOAEL 400 mg/kg/day	28 days
Phenol, 4-nonyl-, branched	Ingestion	Toxic to female reproduction	official classification	NOAEL Not available	
Phenol, 4-nonyl-, branched	Ingestion	Toxic to development	official classification	NOAEL Not available	
4,4'-METHYLENEBIS(2-METHYLCYCLOHEXYLAMINE)	Ingestion	Not classified for male reproduction	Rat	NOAEL 12 mg/kg/day	3 months
4,4'-METHYLENEBIS(2-METHYLCYCLOHEXYLAMINE)	Inhalation	Not classified for male reproduction	Rat	NOAEL 0.048 mg/l	3 months
4,4'-METHYLENEBIS(2-METHYLCYCLOHEXYLAMINE)	Ingestion	Not classified for development	Rat	NOAEL 45 mg/kg/day	during gestation
Benzyl Alcohol	Ingestion	Not classified for development	Mouse	NOAEL 550 mg/kg/day	during organogenesis

Lactation

Name	Route	Species	Value
Phenol, 4-nonyl-, branched	Ingestion	Rat	Not classified for effects on or via lactation

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
4,4'-METHYLENEBIS(2-METHYLCYCLOHEXYLAMINE)	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL Not available	
Benzyl Alcohol	Inhalation	central nervous system depression	May cause drowsiness or dizziness		NOAEL Not available	
Benzyl Alcohol	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	
Benzyl Alcohol	Ingestion	central nervous system depression	May cause drowsiness or dizziness		NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Phenol, 4-nonyl-, branched	Ingestion	endocrine system hematopoietic system liver	Not classified	Rat	NOAEL 400 mg/kg/day	28 days
Phenol, 4-nonyl-, branched	Ingestion	kidney and/or bladder heart bone, teeth, nails, and/or hair immune system muscles nervous system respiratory system	Not classified	Rat	NOAEL 150 mg/kg/day	90 days
4,4'-METHYLENEBIS(2-METHYLCYCLOHEXYLAMINE)	Inhalation	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 0.012 mg/l	3 months
4,4'-METHYLENEBIS(2-METHYLCYCLOHEXYLAMINE)	Inhalation	endocrine system liver kidney and/or bladder respiratory system	Not classified	Rat	NOAEL 0.048 mg/l	3 months
4,4'-METHYLENEBIS(2-METHYLCYCLOHEXYLAMINE)	Inhalation	skin	Not classified	Human	NOAEL Not available	occupational exposure

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AMINE)						
4,4'-METHYLENEBIS(2-METHYLCYCLOHEXYLAMINE)	Ingestion	heart	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 2.5 mg/kg/day	3 months
4,4'-METHYLENEBIS(2-METHYLCYCLOHEXYLAMINE)	Ingestion	hematopoietic system liver	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 12 mg/kg/day	3 months
4,4'-METHYLENEBIS(2-METHYLCYCLOHEXYLAMINE)	Ingestion	endocrine system kidney and/or bladder	Not classified	Rat	NOAEL 60 mg/kg/day	3 months
Benzyl Alcohol	Ingestion	endocrine system muscles kidney and/or bladder	Not classified	Rat	NOAEL 400 mg/kg/day	13 weeks
Benzyl Alcohol	Ingestion	nervous system respiratory system	Not classified	Mouse	NOAEL 645 mg/kg/day	8 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, 4-nonyl-, branched	84852-15-3	Crustacea other	Experimental	96 hours	Effect Concentration 50%	0.043 mg/l
Phenol, 4-nonyl-, branched	84852-15-3	Diatom	Experimental	96 hours	Effect Concentration 50%	0.027 mg/l
Phenol, 4-nonyl-, branched	84852-15-3	Fathead Minnow	Experimental	96 hours	Lethal Concentration 50%	0.128 mg/l
Phenol, 4-nonyl-, branched	84852-15-3	Crustacea other	Experimental	28 days	No obs Effect Conc	0.0039 mg/l
Phenol, 4-nonyl-, branched	84852-15-3	Fathead Minnow	Experimental	33 days	No obs Effect Conc	0.0074 mg/l
4,4'-METHYLENEBIS(2-METHYLCYCLOHEXYLAMINE)	6864-37-5	Green Algae	Experimental	72 hours	Effect Concentration 50%	7.9 mg/l
4,4'-METHYLENEBIS(2-METHYLCYCLOHEXYLAMINE)	6864-37-5	Ricefish	Experimental	96 hours	Lethal Concentration 50%	22 mg/l
4,4'-METHYLENEBIS(2-METHYLCYCLOHEXYLAMINE)	6864-37-5	Water flea	Experimental	48 hours	Effect Concentration 50%	4.6 mg/l
4,4'-METHYLENEBIS(2-METHYLCYCLOHEXYLAMINE)	6864-37-5	Green Algae	Experimental	72 hours	No obs Effect Conc	0.13 mg/l
4,4'-METHYLENEBIS(2-METHYLCYCLOHEXYLAMINE)	6864-37-5	Water flea	Experimental	21 days	No obs Effect Conc	4 mg/l

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YLAMINE)						
Benzyl Alcohol	100-51-6	Fathead Minnow	Experimental	96 hours	Lethal Concentration 50%	460 mg/l
Benzyl Alcohol	100-51-6	Green Algae	Experimental	72 hours	Effect Concentration 50%	770 mg/l
Benzyl Alcohol	100-51-6	Water flea	Experimental	48 hours	Effect Concentration 50%	230 mg/l
Benzyl Alcohol	100-51-6	Green Algae	Experimental	72 hours	No obs Effect Conc	310 mg/l
Benzyl Alcohol	100-51-6	Water flea	Experimental	21 days	No obs Effect Conc	51 mg/l
Phenol, 2-nonyl-, branched	91672-41-2		Data not available or insufficient for classification			
Dibenzyl Ether	103-50-4	Green Algae	Experimental	72 hours	Effect Concentration 50%	4.1 mg/l
Dibenzyl Ether	103-50-4	Ricefish	Experimental	96 hours	Lethal Concentration 50%	6.8 mg/l
Dibenzyl Ether	103-50-4	Water flea	Experimental	48 hours	Effect Concentration 50%	0.77 mg/l
Dibenzyl Ether	103-50-4	Green Algae	Experimental	72 hours	No obs Effect Conc	1 mg/l
Dibenzyl Ether	103-50-4	Water flea	Experimental	21 days	No obs Effect Conc	0.098 mg/l

12.2. Persistence and degradability

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
Phenol, 4-nonyl-, branched	84852-15-3	Estimated Photolysis		Photolytic half-life (in air)	7.5 hours (t 1/2)	Other methods
Phenol, 4-nonyl-, branched	84852-15-3	Experimental Biodegradation	28 days	Carbon dioxide evolution	53 % weight	OECD 301B - Mod. Sturm or CO2
4,4'-METHYLENEBIS(2-METHYLCYCLOHEXYLAMINE)	6864-37-5	Experimental Biodegradation	28 days	Biological Oxygen Demand	0 % weight	OECD 301C - MITI (I)
Benzyl Alcohol	100-51-6	Experimental Biodegradation	14 days	Biological Oxygen Demand	94 % BOD/ThBOD	OECD 301C - MITI (I)
Phenol, 2-nonyl-, branched	91672-41-2	Data not availbl-insufficient			N/A	
Dibenzyl Ether	103-50-4	Experimental Biodegradation	14 days	Biological Oxygen Demand	0 % weight	OECD 301C - MITI (I)

12.3. Bioaccumulative potential

Material	Cas No.	Test Type	Duration	Study Type	Test Result	Protocol
Phenol, 4-nonyl-, branched	84852-15-3	Experimental BCF - Other	16 days	Bioaccumulation Factor	2168	Other methods
4,4'-METHYLENEBIS(2-METHYLCYCLOHEXYLAMINE)	6864-37-5	Experimental BCF-Carp	60 days	Bioaccumulation Factor	60	OECD 305E-Bioaccum Fl-thru fis
Benzyl Alcohol	100-51-6	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	1.10	Other methods
Phenol, 2-nonyl-, branched	91672-41-2	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Dibenzyl Ether	103-50-4	Experimental BCF-Carp	14 days	Bioaccumulation Factor	<=429	Other methods

12.4. Mobility in soil

Please contact manufacturer for more details

12.5. Results of the PBT and vPvB assessment

3M™ Scotch-Weld™ Epoxy Potting Compound/Adhesive DP270 Black, Part A

This material does not contain any substances that are assessed to be a PBT or vPvB

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. 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
200127*	Paint, inks, adhesives and resins containing dangerous substances

SECTION 14: Transportation information

ADR: UN2810; Toxic Liquid, Organic, N.O.S. (4,4-Methylenebis(2-Methylcyclohexylamine; 4-NONYL PHENOL,BRANCHED); 6.1; III; (E); T1.

IMDG: UN2810; Toxic Liquid, Organic, N.O.S. (4,4-Methylenebis(2-Methylcyclohexylamine; 4-NONYL PHENOL,BRANCHED); 6.1; III; FA, SA.

IATA: UN2810; Toxic Liquid, Organic, N.O.S. (4,4-Methylenebis(2-Methylcyclohexylamine; 4-NONYL PHENOL,BRANCHED); 6.1; III.

SECTION 15: Regulatory information

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

Authorization status under REACH:

The following substance/s contained in this product might be or is/are subject to authorization in accordance with REACH:

<u>Ingredient</u>	<u>C.A.S. No.</u>
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Phenol, 4-nonyl-, branched	84852-15-3
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Authorization status: listed in the Candidate List of Substances of Very High Concern for Authorization

SECTION 16: Other information

List of relevant H statements

H302	Harmful if swallowed.
H311	Toxic in contact with skin.

H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H361df	Suspected of damaging fertility. Suspected of damaging the unborn child.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
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 03: Composition/ Information of ingredients table information was modified.
Section 07: Precautions safe handling information information was modified.
Section 08: Respiratory protection - recommended respirators information information was modified.
Section 09: Color information was added.
Section 09: Odor information was added.
Section 09: Odor, color, grade information was deleted.
Section 11: Acute Toxicity table information was modified.
Section 11: Germ Cell Mutagenicity Table information was modified.
Section 11: Lactation Table information was modified.
Section 11: Reproductive and/or Developmental Effects text information was deleted.
Section 11: Reproductive Toxicity 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: No PBT/vPvB information available warning information was modified.
Section 12: Persistence and Degradability information information was modified.
Section 12: Bioaccumulative potential information information was modified.
Section 15: Authorization status under REACH: SVHC Authorization ingredient information information was added.
Section 15: Regulations - Inventories information was deleted.
Section 16: UK disclaimer information was deleted.

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