



This Safety Data Sheet packet contains the documents for the products listed below:

Dynatex® 49409 4-Minute Epoxy Resin – Part A

Dynatex® 49409 4-Minute Epoxy Hardener – Part B

The product listed has two separate components; please confirm that you have the SDS for both parts before use.



Safety Data Sheet

Dynatex® 49409 4-Minute Epoxy Part A (resin)

Section 1. Identification

Product Identifier Dynatex® 49409 4-Minute Epoxy Part A (resin)
Synonyms 49409CL86
Manufacturer Stock Numbers 49409CL86

Recommended use Refer to Technical Information
Uses advised against Refer to Technical Information

Manufacturer Contact
Address Dynatex a division of Soudal Accumatic
350 Ring Road
Elizabethtown, KY, 42701
USA

Phone
(270) 769-3385

Emergency Phone
(800) 424-9300
CHEMTREC

Fax
(270) 769-6418

Section 2. Hazards Identification

Classification EYE DAMAGE/IRRITATION - Category 2B
SENSITIZATION - SKIN - Category 1
SKIN CORROSION/IRRITATION - Category 2

Signal Word Warning

Pictogram



Hazard Statements Causes eye irritation
Causes skin irritation
May cause an allergic skin reaction

Precautionary Statements

Response	<p>If eye irritation persists: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If on skin: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. Read label before use. Take off contaminated clothing and wash it before reuse. Wash contaminated clothing before reuse.</p>
Prevention	<p>Avoid breathing dust/fume/gas/mist/ vapors/spray. Contaminated work clothing must not be allowed out of the workplace. Wash hands thoroughly after handling. Wear protective gloves.</p>
Storage	N/A
Disposal	Dispose of contents/container in accordance with local, state and federal regulations.
Ingredients of unknown toxicity	0%
Hazards not Otherwise Classified	
Additional Information	None known

Section 3. Ingredients

CAS	Ingredient Name	Weight %
25068-38-6	Bisphenol A / Epichlorohydrin Resin	100 %

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-Aid Measures

Ingestion	<p>Do NOT induce vomiting unless directed by medical personnel. Rinse mouth out with water, then sip water to remove taste from mouth. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips (if sitting) or to the side (if lying down) to prevent aspiration. Get medical attention.</p>
Inhalation	<p>Remove patient to fresh air. Administer oxygen if breathing is difficult. Get medical attention if symptoms persist.</p>
Skin Contact	<p>Immediately remove contaminated clothing and excess contaminant. Flush skin with water for at least 15 minutes. Wash thoroughly with soap and water. Consult a physician if irritation develops.</p>
Eye Contact	<p>Flush eyes with clean water for at least 20 minutes while holding eyelids open, lifting upper and lower lids. Get immediate medical attention.</p>

Section 5. Fire Fighting Measures

Suitable Extinguishing Media	Carbon Dioxide, Dry Chemical, Foam
Unsuitable Extinguishing Media	None known
Hazardous Decomposition Products	Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products: Fumes of Chlorine Carbon monoxide Other fumes and vapors varying in composition and toxicity
Unusual Fire or Explosion Hazards	Heating above 300F in the presence of air may cause slow oxidative decomposition and above 500F may cause polymerization. Personnel in vicinity and downwind should be evacuated.
Special Fire Fighting Procedures	Material will not burn unless preheated. Do not enter confined space without full bunker gear. Firefighters should wear self-contained breathing apparatus and protective clothing. Cool fire exposed containers with water.

Section 6. Accidental Release Measures

Steps to be taken in case of spill or release	Observe all personal protection equipment recommendations. Restrict to only those personnel needed. Eliminate ignition sources. Ventilate area. Dike, contain and absorb with clay, sand or other suitable material. For large spills, pump to storage/salvage vessels. Soak up residue with an absorbent such as clay, sand or other suitable material and dispose of properly. Flush area with water to remove trace residue. Clean-up waste water should be placed in appropriate containers for proper disposal.
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Section 7. Handling and Storage

Handling	Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after using and particularly before eating, drinking, smoking, applying cosmetics or using toilet facilities. Launder contaminated clothing and protective gear before reuse. Discard contaminated leather articles. Handle mixed resin and hardener in accordance with potential hazard of the curing agent used. Provide appropriate ventilation/respiratory protection against decomposition products during welding/flame cutting operations and to protect against dust during sanding/grinding of cured product.
Storage	Store in a cool, dry area away from high temperatures and flames. Keep containers closed when not in use.

Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits	Ingredient Name	ACGIH TLV	OSHA PEL	STEL
	Bisphenol A / Epichlorohydrin Resin	N/A	N/A	N/A

Personal Protective Equipment	Goggles, Gloves
Eye Protection	Chemical goggles if liquid contact is likely, or safety glasses with side shields.
Skin Protection	Chemical resistant gloves (i.e. butyl) and other gear as required to prevent skin contact.
Ventilation	Use ventilation that is adequate to keep employee exposure to airborne concentrations below exposure limits (or to lowest feasible limits when limits have not been established). Although good general mechanical ventilation is usually adequate for most industrial applications, local exhaust ventilation is preferred. Local exhaust may be required for confined areas.
Respiratory Protection	None needed in normal use with proper ventilation. In poorly ventilated areas used NIOSH approved organic vapor cartridge respirator for uncured resin, dust/particle respirators during grinding/sanding operations of cured resin, or fresh air line respirator as exposure levels dictate.
Other Precautions	Have emergency shower and eye wash available.

Section 9. Physical and Chemical Properties

Physical State	Viscous liquid
Color	Light yellow
Odor	Not established
Odor Threshold	Not established
Solubility	5.4 to 8.4 mg/L @ 20c
Partition coefficient Water/n-octanol	N/A
VOC%	VOC Compliant for sale in CA
Viscosity	N/A
Specific Gravity	1.16
Density lbs/Gal	N/A
Pounds per Cubic Foot	N/A
Flash Point	264 to 268C
FP Method	Closed Cup
Ph	Not established
Melting Point	No data available
Boiling Point	>320C
Boiling Range	N/A
LEL	N/A
UEL	N/A
Evaporation Rate	No data available
Flammability	N/A

Decomposition Temperature	No data available
Auto-ignition Temperature	N/A
Vapor Pressure	0.03 mm Hg @ 25C
Vapor Density	No data available

Note The above information is not intended for use in preparing product specifications. Contact Soudal Accumetric before writing specifications.

Section 10. Stability and Reactivity

Chemical Stability	Stable
Conditions to Avoid	Open flame and extreme heat.
Hazardous Polymerization	Hazardous polymerization should not occur under normal conditions. However, user should be aware that heat is generated when resin is mixed with curing agents; runaway cure reactions may char and decompose resin, generating unidentified fumes and vapors which may be toxic.
Materials to Avoid / Incompatibility	Strong Lewis or mineral acids, strong oxidizing agents, strong mineral and organic bases (especially primary and secondary aliphatic amines).

Section 11. Toxicological Information

Carcinogenicity	Recent 2-year bio assays in rats and mice exposed by the dermal route to DGEBPA yielded no evidence of carcinogenicity to the skin or any other organs. This study clarifies prior equivocal results from a 2-year mouse skin painting study, which were suggestive, but not conclusive, for weak carcinogenic activity. The International Agency for Research on Cancer (IARC) concluded that DGEBPA is not classifiable as a carcinogen (IARC group 3), that is human and animal evidence of carcinogenicity is inadequate.
Mutagenicity	Liquid resins based on diglycidyl ether of Bisphenol A (DGEBPA), have proved to be inactive when tested by in vivo mutagenicity assays. These resins have shown activity in in vitro microbial mutagenicity screening and have produced chromosomal aberrations in cultured rat liver cells. The significance of these tests to man is unknown.
Other Chronic Effects	Prolonged or repeated skin contact may cause sensitization, with itching, swelling or rashes on later exposure. Studies have shown bisphenol A diglycidyl ether resin to cause allergic contact dermatitis.
NIOSH - Selected LD50s and LC50s	Bisphenol A diglycidyl ether resin (25068-38-6) Oral LD50 (rat) 11.4 g/kg Dermal LD50 (rabbit) >20mL/kg Inhalation LC50 4 hour (rat) No Deaths

Section 12. Ecological Information

Environmental Effects	Complete information is not yet available.
Fate and Effects in Waste Water Treatment Plants	Complete information is not yet available.
Environmental Fate and Distribution	Complete information is not yet available.

Section 13. Disposal

Waste Disposal Method We make no guarantee or warranty of any kind that the use or disposal of this product complies with all local, state, or federal laws. It is also the obligation of each user of the product mentioned herein to determine and comply with the requirements of all applicable statutes.

This product is not known to be regulated under RCRA regulations. Disposal of unused portions of this product and process waste containing this product should be done only after a careful evaluation and in compliance with all federal, local and state laws.

Section 14. Transport Information

UN Number	N/A
UN Proper Shipping Name	Not regulated
DOT Classification	Not regulated
Packing Group	Not regulated
Air Shipment (IATA)	Not subject to IATA regulations.
Ocean Shipment (IMDG)	Not subject to IMDG code.

Section 15. Regulatory Information

TSCA Status	All chemical substances found in this product comply with the Toxic Substances Control Act inventory reporting requirements.
California Proposition 65	This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm: A chemical or chemicals known to the State of California to cause cancer, birth defects or other reproductive harm may be present in this product.
SARA Title III Section 302 Extremely Hazardous Substances	None
SARA Title III Section 304 CERCLA Substances dangereuses	None
SARA Title III Section 312 Hazard Class	Acute: Yes Chronic: Yes Fire: No Pressure: No Reactive: No
SARA Title III Section 313 Toxic Chemicals	None present or none present in regulated quantities.

Section 16. Other Information

Revision Date

12/21/2015

Disclaimer

The data contained herein is based upon information that Soudal Accumetric believes to be reliable. Users of this product have the responsibility to determine that suitability of use and to adopt all necessary precautions to ensure the safety and protection of property and persons involved in said use. All statements or suggestions are made without warranty, expressed or implied, regarding the accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof.



Safety Data Sheet

Dynatex® 49409 4-Minute Epoxy Part B (hardener)

Section 1. Identification

Product Identifier Dynatex® 49409 4-Minute Epoxy Part B (hardener)

Synonyms 49409CL86

Manufacturer Stock Numbers 49409CL86

Recommended use Refer to Technical Information

Uses advised against Refer to Technical Information

Manufacturer Contact

Address

Dynatex a division of Soudal Accumatic
350 Ring Road
Elizabethtown, KY, 42701
USA

Phone

(270) 769-3385

Emergency Phone

(800) 424-9300

CHEMTREC

Fax

(270) 769-6418

Section 2. Hazards Identification

Classification

ACUTE TOXICITY - ORAL - Category 4
EYE DAMAGE/IRRITATION - Category 2B
SENSITIZATION - SKIN - Category 1
SKIN CORROSION/IRRITATION - Category 2

Signal Word

Warning

Pictogram



Hazard Statements	Causes eye irritation Causes skin irritation Harmful if swallowed May cause an allergic skin reaction
Precautionary Statements Response	If eye irritation persists: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If on skin: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. If swallowed: Call a poison center/doctor if you feel unwell. Read label before use. Rinse mouth. Take off contaminated clothing and wash it before reuse. Wash contaminated clothing before reuse.
Prevention	Avoid breathing dust/fume/gas/mist/ vapors/spray. Contaminated work clothing must not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Wear protective gloves.
Storage	N/A
Disposal	Dispose of contents/container in accordance with local, state and federal regulations.
Ingredients of unknown toxicity	0%
Hazards not Otherwise Classified Additional Information	None known

Section 3. Ingredients

CAS	Ingredient Name	Weight %
Trade Secret	Mercaptan amine blend	90% - 100%

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-Aid Measures

Ingestion	Do NOT induce vomiting. Administer 3-4 glasses of milk or water. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips (if sitting) or to the side (if lying down) to prevent aspiration. Get immediate medical attention.
Inhalation	Remove individual to fresh air. Give oxygen if breathing is labored. If breathing has stopped give artificial respiration. Keep person warm, quiet and seek medical attention.

Skin Contact	Immediately remove contaminated clothing and excess contaminant. Flush skin with water for at least 15 minutes. Wash thoroughly with soap and water. Consult a physician if irritation develops.
Eye Contact	Flush eyes with clean water for at least 20 minutes while holding eyelids open, lifting upper and lower lids. Get immediate medical attention.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media	Carbon Dioxide, Dry Chemical, Foam, Water Spray
Unsuitable Extinguishing Media	None known
Hazardous Decomposition Products	Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products: Acrid and toxic fumes with organic amines Ammonia Oxides of carbon Oxides of nitrogen Oxides of sulfur
Unusual Fire or Explosion Hazards	Personnel in vicinity and downwind should be evacuated.
Special Fire Fighting Procedures	Do not enter confined space without full bunker gear. Fire fighters should wear self-contained breathing apparatus and protective clothing to prevent all skin and eye contact with this material. Cool fire exposed containers with water.
Flammability Class	IIIB

Section 6. Accidental Release Measures

Steps to be taken in case of spill or release	Observe all personal protection equipment recommendations. Ventilate area. Remove all possible sources of ignition. Avoid prolonged breathing of vapor. Contain spill with inert absorbent. Local, state and federal regulations may apply to releases and disposal of this material, as well as those materials and items employed in cleanup of releases.
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Section 7. Handling and Storage

Storage	Store in a cool, dry area away from high temperatures and flames. Keep containers closed when not in use.
Handling	Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after using and particularly before eating, drinking, smoking, applying cosmetics or using toilet facilities. Launder contaminated clothing and protective gear before reuse. Discard contaminated leather articles. Handle mixed resin and hardener in accordance with potential hazard of the curing agent used. Provide appropriate ventilation/respiratory protection against decomposition products during welding/flame cutting operations and to protect against dust during sanding/grinding of cured product.

Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits	Ingredient Name	ACGIH TLV	OSHA PEL	STEL
	Mercaptan amine blend	N/A	N/A	N/A
Personal Protective Equipment	Goggles, Gloves			
Eye Protection	Chemical goggles if liquid contact is likely, or safety glasses with side shields.			
Skin Protection	Chemical resistant rubber (e.g. neoprene, butyl rubber, nitrile) gloves and other protective gear as needed to prevent skin contact.			
Respiratory Protection	None needed in normal use with proper ventilation. In poorly ventilated areas used NIOSH approved organic vapor cartridge respirator for uncured resin, dust/particle respirators during grinding/sanding operations of cured resin, or fresh air line respirator as exposure levels dictate.			
Ventilation	Use ventilation that is adequate to keep employee exposure to airborne concentrations below exposure limits (or to lowest feasible limits when limits have not been established). Although good general mechanical ventilation is usually adequate for most industrial applications, local exhaust ventilation is preferred. Local exhaust may be required for confined areas.			
Other Precautions	Have emergency shower and eye wash available.			

Section 9. Physical and Chemical Properties

Physical State	Viscous liquid
Color	Pale yellow
Odor	Sulfur odor
Odor Threshold	No data available
Solubility	Slightly soluble in water
Partition coefficient Water/n-octanol	N/A
VOC%	VOC compliant for sale in CA
Viscosity	10000 to 16000 cps @ 25C
Specific Gravity	1.17
Density lbs/Gal	N/A
Pounds per Cubic Foot	7
Flash Point	110C 230F
FP Method	DIN 51758
Ph	Not established
Melting Point	Not established
Boiling Point	>200C

Boiling Range	N/A
LEL	N/A
UEL	N/A
Evaporation Rate	Not established
Flammability	N/A
Decomposition Temperature	Not established
Auto-ignition Temperature	Not established
Vapor Pressure	Not established
Vapor Density	1.1 g/cc @ 25C

Note The above information is not intended for use in preparing product specifications. Contact Soudal Accumetric before writing specifications.

Section 10. Stability and Reactivity

Hazardous Polymerization	Hazardous polymerization should not occur under normal conditions. However, user should be aware that heat is generated when resin is mixed with curing agents; runaway cure reactions may char and decompose resin, generating unidentified fumes and vapors which may be toxic.
Materials to Avoid / Incompatibility	Strong oxidizing agents. Amines.
Conditions to Avoid	Open flame and extreme heat.
Chemical Stability	Stable

Section 11. Toxicological Information

Carcinogenicity	No data
Teratogenicity	No data
Mutagenicity	No data
Other Chronic Effects	No data
NIOSH - Selected LD50s and LC50s	Mercaptan amine blend Oral LD50 (rat) Not determined Dermal LD50 (rabbit) Not determined Inhalation LC50 4 hour (rat) Not determined

Section 12. Ecological Information

Environmental Effects	Complete information is not yet available.
Fate and Effects in Waste Water Treatment Plants	Complete information is not yet available.
Environmental Fate and Distribution	Complete information is not yet available.

Section 13. Disposal

Waste Disposal Method We make no guarantee or warranty of any kind that the use or disposal of this product complies with all local, state, or federal laws. It is also the obligation of each user of the product mentioned herein to determine and comply with the requirements of all applicable statutes.

This product is not known to be regulated under RCRA regulations. Disposal of unused portions of this product and process waste containing this product should be done only after a careful evaluation and in compliance with all federal, local and state laws.

Section 14. Transport Information

UN Number	N/A
UN Proper Shipping Name	Not regulated
DOT Classification	Not regulated
Packing Group	Not regulated
Ocean Shipment (IMDG)	Not subject to IMDG code.
Air Shipment (IATA)	Not subject to IATA regulations.

Section 15. Regulatory Information

	The contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.
TSCA Status	All chemical substances found in this product comply with the Toxic Substances Control Act inventory reporting requirements.
California Proposition 65	This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm: None known
SARA Title III Section 302 Extremely Hazardous Substances	None
SARA Title III Section 304 CERCLA Substances dangereuses	None
SARA Title III Section 312 Hazard Class	Acute: Yes Chronic: Yes Fire: No Pressure: No Reactive: No
SARA Title III Section 313 Toxic Chemicals	None present or none present in regulated quantities.

Section 16. Other Information

Revision Date

12/21/2015

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The data contained herein is based upon information that Soudal Accumetric believes to be reliable. Users of this product have the responsibility to determine that suitability of use and to adopt all necessary precautions to ensure the safety and protection of property and persons involved in said use. All statements or suggestions are made without warranty, expressed or implied, regarding the accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof.