SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION

Product Identifier : Henry® 452 Part A (Resin)

Product Code Number : 12122022 Chemical Description : Mixture

Trade Name/Synonyms : Henry 451 Part A Resin

Material Use : General Purpose Epoxy Flooring Adhesive

Uses Advised Against : No information available.

Manufacturer's name and address: Supplier's name and address

Same as manufacturer.

The W.W. Henry Company 400 Ardex Park Drive Aliquippa, PA 15001 USA

Information Telephone No. : (724) 203-8000

Website Address : http://www.wwhenry.com

24 Hr Emergency Telephone # : CHEM-TEL: 1-800-255-3924 OR 1-813-248-0585 (call collect)

SECTION 2 – HAZARDS IDENTIFICATION

GHS Classification per 29 CFR 1910.1200 (OSHA HCS 2012) and HPR (WHMIS 2015)

: Skin Sensitizer Category 1 Eye Irritant Category 2A Skin Irritant Category 2

GHS Pictograms :



Signal Word : Warning

Hazard Statements : Causes serious eye irritation.

May cause an allergic skin reaction.

Causes skin irritation.

Precautionary Statements : Do not get in eyes, on skin, or on clothing. Avoid breathing vapors or dust. Use

only outdoors or in a well-ventilated area. Wear protective gloves and eye

protection. Wash hands and exposed skin thoroughly after handling.

Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Store in a well-ventilated place. Keep container tightly closed. Dispose of contents / container in accordance with

federal, state, and local laws. Do not allow product to enter drains.

Hazards Not Otherwise Identified : None

Unknown Acute Toxicity Content : 100% of the ingredients of this product have unknown acute toxicity for inhalation.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS#	% (by weight)
2,2-bis(4-hydroxyphenyl)propane, polymer with (chloromethyl)oxirane	25068-38-6	40 – 70

(chloromethyl)oxirane polyglycol polymer	41638-13-5	10 – 30

The exact percentages of the ingredients have been withheld by the manufacturer as trade secrets.

SECTION 4 – FIRST AID MEASURES

General : Call a Poison Center or doctor if you feel unwell.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If experiencing respiratory symptoms: call a doctor/physician.

Skin contact : Remove/Take off immediately all contaminated clothing. Flush affected skin with

gently flowing lukewarm water for at least 20 minutes. Seek immediate medical

attention/advice.

Eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. Get medical advice/attention.

Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or Ingestion

doctor/physician if you feel unwell.

Notes for Physician : Treat symptomatically. Signs and symptoms of short-term (acute) exposure

> : Inhalation of vapors may cause mild irritation of the respiratory system. Inhalation

Symptoms may include coughing and shortness of breath.

Skin : Causes irritation. Symptoms may include redness and itching. Prolonged or

repeated skin contact may cause an allergic skin reaction.

Eyes : Causes irritation. Symptoms may include redness, itching or pain.

Ingestion : May cause stomach pain with nausea and vomiting.

Effects of long-term (chronic) exposure

Prolonged inhalation may cause adverse lung effects with symptoms including coughing and shortness of breath. Some individuals may experience a sensitization reaction of the skin after an initial exposure. Subsequent exposures may cause a hypersensitive

skin reaction (rash, swelling).

Indication of need for immediate medical attention or special treatment

: Difficulty breathing persists after removing the person to fresh air.

Any exposure to the eye which causes irritation.

Chemical burns to the skin. Blue color of the skin (cyanotic) after exposure.

Ingestion.

SECTION 5 – FIRE FIGHTING MEASURES

Suitable extinguishing media : Use extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media : None known.

Hazardous combustion products : Carbon oxides and/or low molecular weight hydrocarbons.

Special fire-fighting procedures/equipment

Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. After fires have been extinguished, carefully clean all

equipment and surfaces exposed to fumes.

Flammability classification (OSHA 29 CFR 1910.1200, WHMIS 2015)

: Not flammable

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions : Wear chemically resistant personal protective equipment during cleanup. Restrict access to area until completion of clean-up. All persons dealing with clean-up

should wear the appropriate chemically protective equipment.

Protective equipment : Refer to Section 8 on this Safety Data Sheet, EXPOSURE CONTROLS /

PERSONAL PROTECTION, for additional information on acceptable personal

protective equipment.

Emergency procedures : If a spill/release in excess of the EPA reportable quantity is made into the

environment, immediately notify the national response center in the United States

(phone: 1-800-424-8002).

US CERCLA Reportable quantity (RQ): None reported.

Spill response / clean-up : Ventilate area of release. Stop spill or leak at source if safely possible. Contain

product with inert absorbent material, preventing it from entering sewer lines or waterways. Gather up spilled material and place in suitable container for later

disposal Notify the appropriate authorities as required.

Environmental precautions : Do not allow product to enter waterways. Do not allow material to contaminate

ground water system.

Disposal of spilled material : See Section 13.

SECTION 7 – HANDLING AND STORAGE

Safe handling procedures : Observe good hygiene standards. Do not eat, drink or smoke in the work area.

Wash thoroughly after handling. Avoid contact with skin and eyes. Avoid repeated or prolonged skin contact. Avoid breathing vapors or mists of this product. Wear protective clothing to prevent skin contact. Promptly remove any clothing that becomes contaminated. Clean contaminated clothing before reuse. Keep container

tightly closed. Use only with adequate ventilation.

Storage requirements : Store in a cool, dry, well-ventilated area. Store away from heat and open flame.

Avoid storing in direct sunlight. Store in original container. Keep tightly closed when not in use. Do not reuse empty container without commercial cleaning or

reconditioning.

Incompatible materials : Strong oxidizing agents.

Special packaging materials : Always keep in containers made of the same materials as the supply container.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure limits : No exposure limits have been established for the product. Below are exposure limits for the ingredients in the product.

Ingredients	CAS#	ACGIH TLV		OSH	A PEL
		TWA	STEL	PEL	STEL
2,2-bis(4-hydroxyphenyl)propane, polymer with (chloromethyl)oxirane	25068-38-6	N/Av	N/Av	N/Av	N/Av
(chloromethyl)-oxirane polyglycol polymer	41638-13-5	N/Av	N/Av	N/Av	N/Av

Engineering measures : Use general or local exhaust ventilation to maintain air concentrations below

recommended exposure limits. Ventilation should effectively remove and prevent buildup of any vapor or mist generated from the handling of this product.

Eye / face protection : Chemical goggles must be worn when using this product. A face shield is

recommended if splashing is possible.

Skin protection : Wear chemical resistant protective clothing and impervious gloves. Materials such

as nitrile rubber or Viton (fluorocarbon rubber) are recommended.

Body protection : Where extensive exposure to product is possible, use resistant coveralls, apron and

boots to prevent contact.

Respiratory protection : If work process generates excessive quantities of vapor or dust, or exposures in

excess of any PEL, wear an appropriate organic vapor respirator.

Site safety equipment : An eyewash station and safety shower should be made available in the immediate

working area.

General hygiene precautions : Avoid contact with eyes, skin and clothing. Do not breathe vapors/dust. Do not

eat, drink or smoke when using this product. Clean all equipment and clothing at

end of each work shift.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical state : Paste Appearance : Off white paste

Characteristic Odor **Odor threshold** : N/Av рΗ Specific gravity 1.496 N/Av **Boiling point** : N/Av Coefficient of water/oil distribution : N/Av Melting/Freezing point : N/Av Solubility in water : insoluble Vapor pressure (mm Hg @ 20°C / 68°F) : N/Av Evaporation rate (n-Butyl acetate = 1) : N/Av Volatiles (% by weight) Vapor density (Air = 1) : N/Av : N/Av

Volatile organic compounds (VOCs) : <10 g/L A+B, ASTM D2369

Decomposition temperature: N/AvFlammable Classification: Not FlammableFlash point: >400°F (100°C)Lower flammable limit (% by vol): Not availableFlash point method: Tag closedUpper flammable limit (% by vol): Not available

Auto-ignition temperature : Not available Oxidizing properties : None

Flame projection length : Not available Flashback observed : Not available

Explosion data: Sensitivity to mechanical impact / static discharge

: Not expected to be sensitive to mechanical impact or static discharge.

Viscosity : Not available

SECTION 10 – REACTIVITY AND STABILITY INFORMATION

Reactivity : Product reacts with amines to form polymers. Heat is evolved by this reaction. **Stability and reactivity** : Stable under the recommended storage and handling conditions prescribed.

Hazardous polymerization : Hazardous polymerization does not occur.

Conditions to avoid : Avoid prolonged exposure to heat.

Materials to avoid and incompatability

: Oxidizing agents.

Hazardous decomposition products

: None known, refer to hazardous combustion products in Section 5.

SECTION 11 – TOXICOLOGICAL INFORMATION

Routes of Exposure : Inhalation: YES Skin Absorption: NO Skin and Eyes: Yes Ingestion: YES

Signs and symptoms of short-term (acute) exposure

: See Section 4.

Signs and symptoms of long-term (chronic) exposure

: See Section 4.

Calculated Acute Toxicity Estimates for the Product

Inhalation: Not AvailableOral: Not AvailableDermal: Not Available

Toxicological data : See below for individual ingredient acute toxicity data.

		LC50 (4 hr), mg/L	LD50, mg/kg		
Ingredients	CAS No.	Inhalation, rat	Oral, rat	Dermal, rabbit	
2,2-bis(4- hydroxyphenyl)propane, polymer with (chloromethyl)oxirane	25068-38-6	N/Av	11400	> 23.500	
(chloromethyl)-oxirane polyglycol polymer	41638-13-5	N/Av	> 2000	N/Av	

Skin corrosion/irritation : May cause irritation.

Serious eye damage/eye irritation : Serious eye irritant.

Respiratory or skin sensitization : Contains a component which is known to cause skin sensitization reactions. Does

not contain known respiratory sensitizers.

Germ cell mutagenicity : None known.

Carcinogenic status : No components are listed as carcinogenic by IARC, ACGIH, NTP, or OSHA.

Reproductive toxicity : None known. Specific Target Organ Toxicity, Single Exposure

: None known.

Specific Target Organ Toxicity, Repeated Exposure

: None known.

Aspiration hazard : None known.

Other important hazards : See Section 2 for additional information.

SECTION 12 – ECOLOGICAL INFORMATION

Environmental effects : The product should not be allowed to enter drains or water courses, or be

deposited where it can affect ground or surface waters.

Important environmental characteristics

: N/Av

Ecotoxicological : No data is available on the product itself.

Persistence and degradability : Not Available.

Bioaccumulative potential : Not Available.

Mobility in the soil : Not Available

PBT and vPvB assessment : Not Available

Other adverse effects : Not Available

SECTION 13 – DISPOSAL CONSIDERATION

Handling for disposal : Handle waste according to recommendations in Section 7.

Methods of disposal : Material, if discarded, is not expected to be a characteristic hazardous waste under

RCRA. You must test your waste using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes. Dispose in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific

rules.

RCRA : If this product, as supplied, becomes a waste in the United States, it may meet the

criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local,

state and federal environmental agencies.

SECTION 14 – TRANSPORTATION INFORMATION

Regulatory Information	UN Number	Shipping Name	Class	Packing Group	Label
TDG	None	This product is not regulated according to Canadian TDG regulations.	None	None	None
TDG Additional Information	None				
49 CFR/DOT	None	This product is not regulated according to US DOT regulations.	None	None	None
49 CFR/DOT Additional Information	None			•	

SECTION 15 – REGULATORY INFORMATION

Canadian Information:

This product has been classified according to the hazard criteria of the Hazardous Products Regulations (HPR). This SDS contains all of the information required by the HPR.

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on either the Domestic Substances List (DSL) or the Non- Domestic Substances List (NDSL).

US Federal Information:

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

CERCLA Reportable Quantity (RQ) (40 CFR 117.302): None reported.

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes:

Immediate (Acute) Health Hazard

Chronic Health Hazard.

Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

SARA TITLE III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This material is not subject to SARA notification requirements, since it does not contain any Toxic Chemical constituents above de minimus concentrations.

U.S. State Right To Know Laws

California Proposition 65: This product does not contain chemicals known to the State of California to cause cancer and/or reproductive toxins.

Other State Right to Know Laws: The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	NY	PA	RI
2,2-bis(4-hydroxyphenyl)propane, polymer with (chloromethyl)oxirane	25068-38-6	No						
(chloromethyl)-oxirane polyglycol polymer	41638-13-5	No						

SECTION 16 – OTHER INFORMATION

HMIS Rating : *- Chronic Hazard 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe

Health: *2 Flammability 1 Physical Hazard 0 PPE: Gloves, safety glasses

Legend : ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstract Services

CERCLA: Comprehensive Environmental Response, Compensation, and Liability

Act of 1980

CFR: Code of Federal Regulations DOT: Department of Transportation DSL: Domestic Substances List EPA: Environmental Protection Agency

GHS: Globally Harmonized System HPR: Hazardous Products Regulations

IARC: International Agency for Research on Cancer

Inh: Inhalation N/Av: Not Available N/Ap: Not Applicable

NIOSH: National Institute of Occupational Safety and Health

NTP: National Toxicology Program OSHA: Occupational Safety and Health Administration

PEL: Permissible exposure limit RCRA: Resource Conservation and Recovery Act SARA: Superfund Amendments and Reauthorization Act

STEL: Short Term Exposure Limit

TDG: Canadian Transportation of Dangerous Goods Act & Regulations

TLV: Threshold Limit Values TSCA: Toxic Substance Control Act TWA: Time Weighted Average

WHMIS: Workplace Hazardous Materials Identification System

Disclaimer of Liability

The Information presented herein is supplied as a guide to those who handle or use this product and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be all-inclusive. The manner and conditions of use and handling may involve other and additional considerations. Safe work practices must be employed when working with any materials. It is important that the end user makes a determination regarding the adequacy of the safety procedures employed during the use of this product.

No warranty of any kind is given or implied. The W.W. Henry Company will not be liable for any damages, losses, injuries or consequential damages which may result from the use or reliance on any information contained herein.

Prepared By:

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Visit our Website: http://www.wwhenry.com

Revision date: : 20-Jul-2015

End of Document

SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION

Product Identifier : Henry 452 Part B (Hardener)

Product Code Number : 12122012 Chemical Description : Mixture

Trade Name/Synonyms : Henry 451 Part B Hardener

Material Use : General Purpose Epoxy Flooring Adhesive

Uses Advised Against : No information available.

Manufacturer's name and address: Supplier's name and address

Same as manufacturer.

The W.W. Henry Company 400 Ardex Park Drive Aliquippa, PA 15001 USA

Information Telephone No. : (724) 203-8000

Website Address : http://www.wwhenry.com

24 Hr Emergency Telephone # CHEM-TEL: 1-800-255-3924 OR 1-813-248-0585 (call collect)

SECTION 2 – HAZARDS IDENTIFICATION

GHS Classification per 29 CFR 1910.1200 (OSHA HCS 2012) and HPR (WHMIS 2015)

Skin corrosion/irritation; Category 1

Serious eye damage/eye irritation, Category 1

Acute toxicity,oral; Category 4
Acute toxicity,dermal; Category 4
Acute toxicity,inhalation; Category 4
Sensitization, dermal; Category 1

Specific target organ toxicity, repeated exposure; Category 2

GHS Pictograms :







Signal Word : Danger

Hazard Statements : Causes severe skin burns and eye damage.

Harmful if swallowed. Harmful in contact with skin.

Harmful if inhaled.

May cause an allergic skin reaction.

May cause damage to organs < lungs> through prolonged or repeated exposure.

Precautionary Statements Do not breathe dust/fume/gas/vapours. In case of inadequate ventilation wear

respiratory protection. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection. Wash hands and exposed skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Store locked up. Dispose of contents / container in accordance with federal, state, and local laws. Do not allow

product to enter drains.

Hazards Not Otherwise Specified: Polymerization occurs when components are mixed. Mixture will become very hot.

% Unknown acute toxicity : 100% of this product consists of ingredients with unknown acute inhalation toxicity.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS#	% (by weight)
Polyamide resin	68410-23-1	60 - 100
Triethylenetetramine	112-24-3	10 - 30
Talc	14807-96-6	5 - 10
Amorphous fumed silica (SiO2)	112945-52-5	1 - 5

Exact percentages of the ingredients have been withheld by the manufacturer as trade secrets.

SECTION 4 – FIRST AID MEASURES

General : IF exposed or concerned: Get medical advice/attention.

Inhalation : IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing. Immediately call a POISON CENTER or doctor/physician.

Skin contact : IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse

SKIN with soap and water/shower. IF SKIN irritation or rash occurs: get medical

advice/attention.

Eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical advice/attention.

Ingestion : IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or

doctor/physician if you feel unwell.

Notes for Physician : Treat symptomatically.

Signs and symptoms of short-term (acute) exposure

Inhalation : Symptoms may include coughing, shortness of breath, wheezing and reduced lung

function.

Skin : Direct skin contact may cause corrosive skin burns, deep ulcerations and possibly

permanent scarring. Harmful ingredients may be absorbed through the skin.

Eyes : Chemical burns, corneal damage, and possibly blindness can result from direct contact.

Exposure to low vapour concentrations may cause swelling (edema) of the eyes, resulting in blurring of vision with a bluish haze and/or appearance of halos around lights.

Ingestion : May cause severe irritation and corrosive damage in the mouth, throat and stomach.

Symptoms may include abdominal pain, vomiting, burns, perforations, bleeding and

eventually death.

Effects of long-term (chronic) exposure

Prolonged inhalation may cause adverse lung effects with symptoms including coughing and shortness of breath. Some individuals may experience a sensitization reaction of the skin after an initial exposure. Subsequent exposures may cause a hypersensitive skin

reaction (rash, swelling).

Indication of need for immediate medical attention or special treatment

: Difficulty breathing persists after removing the person to fresh air.

Any exposure to the eye which causes irritation.

Chemical burns to the skin. Blue color of the skin (cyanotic) after exposure.

Ingestion.

SECTION 5 – FIRE FIGHTING MEASURES

Suitable extinguishing media : Water spray, dry chemical, carbon dioxide, foam. Fight larger fires with water spray or

alcohol resistant foam.

Unsuitable extinguishing media: High pressure water jet may spread the fire.

Hazardous combustion products : Carbon monoxide carbon dioxide, nitrogen oxides and/or low molecular weight

hydrocarbons and amines.

Fire hazards/conditions of flammability

: Not flammable under normal conditions of use. Material will ignite at high temperatures. Flash Point > 171°C (340°F). Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.

Special fire-fighting procedures/equipment

: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. After fires have been extinguished, carefully clean all equipment and surfaces exposed to fumes.

Flammability classification (OSHA 29 CFR 1910.1200, WHMIS 2015)

: Non-Flammable

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions : Corrosive! See Section 7 for safe handling procedures. Wear chemically resistant

personal protective equipment during cleanup. Restrict access to area until completion of clean-up. All persons dealing with clean-up must be properly trained and wear the appropriate chemically protective equipment. Refer to Section 8 on this Safety Data Sheet, EXPOSURE CONTROLS / PERSONAL PROTECTION, for additional information

on acceptable personal protective equipment.

Environmental precautions : Do not allow product to enter waterways. Do not allow material to contaminate ground

water system.

Spill response / clean-up : Ventilate area of release. Stop spill or leak at source if safely possible. Turn off all

possible ignition sources. Contain product with inert absorbent material, preventing it from entering sewer lines or waterways. Gather up spilled material and place in suitable container for later disposal (see Section 13). Notify the appropriate authorities as

required.

Prohibited materials : Avoid strong oxidizing agents. Do not allow spilled material to mix with epoxy resins.

Chemical reaction with epoxides causes polymerization and release of heat energy.

Special spill response procedures : If a spill/release in excess of the EPA reportable quantity is made into the environment,

immediately notify the national response center in the United States (phone:

1-800-424-8002).

US CERCLA Reportable quantity (RQ): None reported.

SECTION 7 – HANDLING AND STORAGE

Safe handling procedures : Corrosive! Do NOT get into eyes, on skin or on clothing. Do NOT breathe vapor. Do NOT

swallow. Observe good hygiene standards. Do not eat, drink or smoke in the work area. Keep away from heat/open flames/hot surfaces. — No smoking. Wash thoroughly after handling. Wear protective clothing to prevent skin contact. Promptly remove any clothing that becomes contaminated. Clean contaminated clothing before reuse. Keep

container tightly closed. Use only with adequate ventilation.

Storage requirements : Store in a cool, dry, well-ventilated area. Store away from heat and open flame. Avoid

storing in direct sunlight. Store in original container. Keep tightly closed when not in use.

Do not reuse empty container without commercial cleaning or reconditioning.

Incompatible materials : See Section 10.

Special packaging materials : Always keep in containers made of the same materials as the supply container.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible exposure levels

Ingredients	CAS#	ACGIH TLV		OSH	A PEL
		TLV	TLV STEL PEL		STEL
Polyamide resin	68410-23-1	N/Av	N/Av N/Av N/Av		N/Av
		1 ppm			
Triethylenetetramine	112-24-3	(skin)	N/Av	N/Av	N/Av
Talc	14807-96-6	2 mg/m3	N/Av	20 mppcf	N/Av

		(respirable)			
Amorphous fumed silica (SiO2)	112945-52-5	N/Av	N/Av	N/Av	N/Av

Ventilation and engineering measures: Use general or local exhaust ventilation to maintain air concentrations below

recommended exposure limits. Ventilation should effectively remove and prevent buildup

of any vapor or mist generated from the handling of this product.

Respiratory protection : If work process generates excessive quantities of vapor or dust, or exposures in excess

of any PEL, wear an appropriate organic vapor respirator.

Hand protection : Wear impervious gloves. Materials such as nitrile rubber or Viton (fluorocarbon rubber)

are recommended. Refer to glove manufacturer for breakthrough time for the chemicals

in this product. (See Section 3.)

Body protection : Wear chemical resistant protective clothing. Where extensive exposure to product is

possible, use resistant coveralls, apron, and boots to prevent contact.

Eye / face protection : Chemical goggles must be worn when using this product. A face shield is recommended

if splashing is possible.

Other protective equipment : An eyewash station and safety shower should be made available in the immediate

working area.

General hygiene considerations : Avoid contact with eyes, skin and clothing. Do not breathe vapors/dust. Do not eat, drink

or smoke when using this product. Clean all equipment and clothing at end of each work

shift

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical state : Paste Appearance : Brown paste.

Odor: AmineOdor threshold: N/AvpH: AlkalineSpecific gravity: 1.023Boiling point: N/AvCoefficient of water/oil distribution: N/AvMelting/Freezing point: N/AvSolubility in water: Not soluble

Vapor pressure (mm Hg @ 20°C / 68°F) : N/Av

Evaporation rate (n-Butyl acetate = 1) : N/Av Viscosity : N/Av Vapor density (Air = 1) : N/Av Volatiles (% by weight) : N/Av

Volatile organic compounds (VOCs) : < 10 g/L A+B, ASTM D2369

Flammability classification (OSHA 29 CFR 1910.1200)

: Non-flammable

Flash point : 171°C (340°F) Lower flammable limit (% by vol) : N/Av
Flash point method : Tag closed cup Upper flammable limit (% by vol) : N/Av
Auto-ignition temperature : N/Av Oxidizing properties : None

Flame projection length : Not available Flashback observed : Not available

Explosion data: Sensitivity to mechanical impact / static discharge

: Not expected to be sensitive to mechanical impact or static.

SECTION 10 – REACTIVITY AND STABILITY INFORMATION

Reactivity : Product is formulated to react with epoxides, forming a polymer. This reaction evolves

heat.

Stability : Stable under the recommended storage and handling conditions prescribed.

Hazardous polymerization : Hazardous polymerization does not occur.

Conditions to avoid : Avoid prolonged exposure to heat. Keep away from heat/open flames/hot surfaces. —

No smoking.

Materials to avoid and incompatibility

Oxidizing agents.

Hazardous decomposition products

Refer to hazardous combustion products in Section 5.

SECTION 11 – TOXICOLOGICAL INFORMATION

Routes of Exposure : Inhalation: YES Skin Absorption: YES Skin and Eyes: Yes Ingestion: YES

Symptoms of exposure : See Section 4.

Calculated Acute Toxicity Estimates for the Product

Inhalation : N/Av

Oral : > 1800 mg/kg

Dermal : > 1200 mg/kg

Toxicological data : Based on individual components, this product is harmful if inhaled, swallowed, or

absorbed through the skin. Contains components that may be absorbed through the skin

in harmful amounts. See below for individual ingredient acute toxicity data.

		LC50 (4 hr), mg/L	LD50, mg/kg		
Ingredients	CAS No.	Inhalation, rat	Oral, rat	Dermal, rabbit	
Polyamide resin	68410-23-1	N/Av	> 2000	> 2000	
Triethylenetetramine	112-24-3	N/Av	2500	805	
Talc	14807-96-6	N/Av	N/Av	N/Av	
Amorphous fumed silica (SiO2)	112945-52-5	N/Av	N/Av	N/Av	

Repeated Dose Effects : Contains components which may be absorbed through the skin in harmful amounts,

especially after repeated or prolonged exposure.

Carcinogenic status : No components are listed as carcinogens by ACGIH, IARC, OSHA, NIOSH or NTP.

 Reproductive effects
 : None known.

 Teratogenicity
 : None known.

 Mutagenicity
 : None known.

 Epidemiology
 : Not available.

 Target Organ Effects
 : None known.

Sensitization to material : Contains components which are known to cause skin sensitization reactions.

Synergistic materials : N/Av Irritancy/Corrosivity : Corrosive.

Other important hazards : See hazards listed in Section 2.

SECTION 12 – ECOLOGICAL INFORMATION

Environmental effects : The product should not be allowed to enter drains or water courses, or be deposited

where it can affect ground or surface waters.

Important environmental characteristics

: N/Av

Ecotoxicological: No data available.Biodegradability: No data available.Bioaccumulative potential: No data available.Mobility in soil: No data available.PBT and vPvB assessment: No data available.Other adverse effects: No data available.

SECTION 13 – DISPOSAL CONSIDERATION

Handling for disposal : Handle waste according to recommendations in Section 7.

Methods of disposal : Dispose in accordance with all applicable federal, state, provincial and local regulations.

Contact your local, state, provincial or federal environmental agency for specific rules.

Disposal Information : Waste must be handled in accordance with all local regulations. In case of large spills, follow all facility Emergency Response Procedures. Do not allow this material into

follow all facility Emergency Response Procedures. Do not allow this material into sewers/water supplies. Do not reuse containers. Dispose of container and any unused

contents in accordance with local regulations.

RCRA : If this product, as supplied, becomes a waste in the United States, it may meet the criteria

of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of

the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14 – TRANSPORTATION INFORMATION

Regulatory Information	UN Number	Shipping Name	Class	Packing Group	Label
TDG	None	This product is not regulated according to Canadian TDG regulations.	None	None	None
TDG Additional Information	None				
49 CFR/DOT	None	This product is not regulated according to US DOT regulations.	None	None	None
49 CFR/DOT Additional Information	None			•	

SECTION 15 – REGULATORY INFORMATION

Canadian Information:

This product has been classified according to the hazard criteria of the Hazardous Products Regulations (HPR). This SDS contains all of the information required by the HPR.

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on either the Domestic Substances List (DSL) or the Non- Domestic Substances List (NDSL).

US Federal Information:

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

CERCLA Reportable Quantity (RQ) (40 CFR 117.302): None reported.

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes:

Immediate (Acute) Health Hazard

Chronic Health Hazard

Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

SARA TITLE III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This material is not subject to SARA notification requirements, since it does not contain any Toxic Chemical constituents above *de minimus* concentrations.

U.S. State Right To Know Laws

California Proposition 65: This product does not contain any chemicals known to the State of California to cause cancer and/or reproductive effects.

Other State Right to Know Laws:

Component	CAS	CA	MA	MN	NJ	NY	PA	RI
Polyamide resin	68410-23-1	No	No	No	No	No	No	No
Triethylenetetramine	112-24-3	No	Yes	No	Yes	No	Yes	No
Talc	14807-96-6	Yes	Yes	No	Yes	No	Yes	Yes
Amorphous fumed silica (SiO2)	112945-52-5	No	No	No	No	No	No	No

SECTION 16 – OTHER INFORMATION

Legend : ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstract Services

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of

1980

CFR: Code of Federal Regulations DOT: Department of Transportation DSL: Domestic Substances List EPA: Environmental Protection Agency GHS: Globally Harmonized System HPR: Hazardous Products Regulations

IARC: International Agency for Research on Cancer

Inh: Inhalation N/Av: Not Available N/Ap: Not Applicable

NIOSH: National Institute of Occupational Safety and Health

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

PEL: Permissible exposure limit

RCRA: Resource Conservation and Recovery Act SARA: Superfund Amendments and Reauthorization Act

STEL: Short Term Exposure Limit

TDG: Canadian Transportation of Dangerous Goods Act & Regulations

TLV: Threshold Limit Values

TSCA: Toxic Substance Control Act TWA: Time Weighted Average

WHMIS: Workplace Hazardous Materials Identification System

HMIS Rating : *- Chronic Hazard 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe

Health: *3 Flammability 1 Physical Hazard 0 PPE:

Recommended PPE: Gloves, safety glasses with side shields, protective clothing

Disclaimer of Liability

The Information presented herein is supplied as a guide to those who handle or use this product and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be all-inclusive. The manner and conditions of use and handling may involve other and additional considerations. Safe work practices must be employed when working with any materials. It is important that the end user makes a determination regarding the adequacy of the safety procedures employed during the use of this product.

No warranty of any kind is given or implied. The W.W. Henry Company will not be liable for any damages, losses, injuries or consequential damages which may result from the use or reliance on any information contained herein.

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Revision date: : 20-Jul-2015

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