

Revision Date 21-May-2015

Version 1

SAFETY DATA SHEET

1. IDENTIFICATION		
Product identifier Product Name	14600 COLD WELD BONDING COMPOUND (RESIN)	
<u>Other means of identification</u> Product Code Synonyms	0175B None	
Recommended use of the chemical Recommended Use Uses advised against	and restrictions on use (Epoxy resin) No information available	
Details of the supplier of the safety of Manufacturer Address ITW Permatex 10 Columbus Blvd. Hartford, CT 06106 USA	data sheet <u>Distributor</u> ITW Permatex Canada 35 Brownridge Road, Unit 1 Halton Hills, ON Canada L7G 0C6 Telephone: (800) 924-6994	
Company Phone Number 24 Hour Emergency Phone Number	1-87-Permatex (877) 376-2839 Chem-Tel: 800-255-3924 International Emergency: 00+1+ 813-248-0585 Contract Number: MIS0003453	
E-mail address	mail@permatex.com	
	2. HAZARDS IDENTIFICATION	

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1
Carcinogenicity	Category 1A

Label elements

Danger

Emergency Overview

Causes skin irritation Causes serious eye irritation May cause an allergic skin reaction May cause cancer



Physical state Liquid

Odor Mild

Precautionary Statements - Prevention

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Wash face, hands and any exposed skin thoroughly after handling Avoid breathing dust/fume/gas/mist/vapors/spray Contaminated work clothing should not be allowed out of the workplace Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention Specific treatment (see supplemental first aid instructions on this label) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention IF ON SKIN: Wash with plenty of soap and water Take off contaminated clothing and wash before reuse If skin irritation or rash occurs: Get medical advice/attention

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Other Information

Toxic to aquatic life with long lasting effects.

Unknown acute toxicity

46.5% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

substance(s)

Chemical Name	CAS No	Weight-%	Trade Secret
LIMESTONE	1317-65-3	30 - 60	*
BISPHENOL A/EPICHLOROHYDRIN BASED EPOXY RESIN	25068-38-6	15 - 40	*
IRON	7439-89-6	5 - 10	*
SILICON	7440-21-3	1 - 5	*
BENZYL ALCOHOL	100-51-6	1 - 5	*
SILICA, QUARTZ	14808-60-7	0.1 - 1	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

General advice	Get medical advice/attention if you feel unwell.		
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.		
Skin contact	IF ON SKIN:. Wash with soap and water. If skin irritation or rash occurs: Get medical advice/attention.		
Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, call a physician.		
Ingestion	IF SWALLOWED:. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician.		
Self-protection of the first aider	Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.		
Most important symptoms and effects, both acute and delayed			
Symptoms	See section 2 for more information.		
Indication of any immediate medical attention and special treatment needed			
Note to physicians	Treat symptomatically.		
5. FIRE-FIGHTING MEASURES			

Suitable extinguishing media

Carbon dioxide (CO2), Dry chemical, Foam

Unsuitable extinguishing media None.

Specific hazards arising from the chemical None in particular.

Explosion dataSensitivity to Mechanical ImpactNone.Sensitivity to Static DischargeNone.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation, especially in confined areas. Avoid contact with eyes and skin.
	Use personal protective equipment as required.

Environmental precautions

Environmental precautions	Do not flush into surface water or sanitary sewer system. See Section 12 for additional
	ecological Information.

Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.		
Methods for cleaning up	Ensure adequate ventilation. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.		
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.		
	7. HANDLING AND STORAGE		
Precautions for safe handling			
Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid breathing vapors or mists. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse. Use personal protective equipment as required.		
Conditions for safe storage, including any incompatibilities			
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place.		
Incompatible materials	Strong oxidizing agents, Bases, Acids, Amines		
8. EXPOSURE CONTROLS/PERSONAL PROTECTION			

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
LIMESTONE 1317-65-3	-	TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction (vacated) TWA: 15 mg/m ³ total dust (vacated) TWA: 5 mg/m ³ respirable fraction	
SILICON 7440-21-3	-	TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction (vacated) TWA: 10 mg/m ³ total dust (vacated) TWA: 5 mg/m ³ respirable fraction	
SILICA, QUARTZ 14808-60-7	TWA: 0.025 mg/m ³ respirable fraction	 (vacated) TWA: 0.1 mg/m³ respirable dust : (30)/(%SiO2 + 2) mg/m³ TWA total dust : (250)/(%SiO2 + 5) mppcf TWA respirable fraction : (10)/(%SiO2 + 2) mg/m³ TWA respirable fraction 	IDLH: 50 mg/m ³ respirable dust TWA: 0.05 mg/m ³ respirable dust

NIOSH IDLH Immediately Dangerous to Life or Health

Other Information

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls

Engineering Controls Showers Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin and body protection	Wear protective gloves and protective clothing.

Respiratory protection	Use NIOSH-approved air-purifying respirator with organic vapor cartridge or canister, as appropriate.
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice. Regular cleaning of equipment, work area and clothing is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Appearance Odor Odor threshold	Liquid Black Mild No information available	
Property	Values	Remarks • Method
рН	Neutral	
Melting point / freezing point	No information available	
Boiling point / boiling range	> 232 °C / 450 °F	
Flash point	> 93 °C / > 200 °F	
Evaporation rate	< 1	Butyl acetate = 1
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	No information available	A : 4
Vapor density	>1 1.62	Air = 1
Relative density		
Water solubility	Negligible No information available	
Solubility in other solvents Partition coefficient	No information available	
	No information available	
Autoignition temperature	No information available	
Decomposition temperature Kinematic viscosity	No information available	
Dynamic viscosity	No information available	
Explosive properties	No information available	
Oxidizing properties	No information available	
Oxidizing properties		
Other Information		
Softening point Molecular weight VOC Content (%) Density	No information available No information available 0 No information available	
Bulk density	No information available	
Buik defisity		

10. STABILITY AND REACTIVITY

Reactivity No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions None under normal processing.

Conditions to avoid

Excessive heat.

Incompatible materials

Strong oxidizing agents, Bases, Acids, Amines

Hazardous Decomposition Products

Carbon oxides

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Chemical Name	Oral J D50	Dermal D50	Inhalation I C50		
Ingestion	Ingestion may cause irritat	Ingestion may cause irritation to mucous membranes.			
Skin contact	May cause skin irritation a	May cause skin irritation and/or dermatitis. May cause sensitization by skin contact.			
Eye contact	Contact with eyes may car	Contact with eyes may cause irritation. May cause redness and tearing of the eyes.			
Inhalation	May cause irritation of res	May cause irritation of respiratory tract.			

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
BISPHENOL A/EPICHLOROHYDRIN BASED	= 11400 mg/kg (Rat)	-	-
EPOXY RESIN 25068-38-6			
IRON 7439-89-6	= 984 mg/kg (Rat)	-	-
SILICON 7440-21-3	= 3160 mg/kg (Rat)	-	-
BENZYL ALCOHOL 100-51-6	= 1230 mg/kg (Rat)	= 2 g/kg (Rabbit)	= 8.8 mg/L (Rat)4 h
SILICA, QUARTZ 14808-60-7	= 500 mg/kg(Rat)	-	-

Information on toxicological effects

Symptoms

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization	No informatio	n available.			
Germ cell mutagenicity	No informatio	No information available.			
Carcinogenicity	The table bel	The table below indicates whether each agency has listed any ingredient as a carcinogen.			
Chemical Name	ACGIH	IARC	NTP	OSHA	
SILICA, QUARTZ	A2	Group 1	Known	Х	
14808-60-7					
ACGIH (American Confe	erence of Governmental Ind	ustrial Hygienists)			
A2 - Suspected Human C	0				
	ncy for Research on Cance	r)			
Group 1 - Carcinogenic to					
Not classifiable as a hum	5				
NTP (National Toxicolog					
Known - Known Carcinog					
	fety and Health Administra	tion of the US Department o	of Labor)		
X - Present					
Target Organ Effects	an Effects Eyes, Respiratory system, Skin.				
The following values are		apter 3.1 of the GHS docu	ument .		
ATEmix (oral)	3544 mg/kg				
ATEmix (dermal)	42800 mg/kg]			
ATEmix (inhalation-d	ust/mist) 32.1 mg/l				
•					

12. ECOLOGICAL INFORMATION

Ecotoxicity

55% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
IRON	-	13.6: 96 h Morone saxatilis mg/L	-
7439-89-6		LC50 static	
BENZYL ALCOHOL	35: 3 h Anabaena variabilis mg/L	460: 96 h Pimephales promelas	23: 48 h water flea mg/L EC50
100-51-6	EC50	mg/L LC50 static 10: 96 h Lepomis	-
		macrochirus mg/L LC50 static	

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Mobility

No information available.

Chemical Name	Partition coefficient
BENZYL ALCOHOL	1.1
100-51-6	

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods	
Disposal of wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging	Do not reuse container.
US EPA Waste Number	Not applicable

14. TRANSPORT INFORMATION

DOT Proper shipping name:	Not regulated
IATA Proper shipping name:	Not regulated
IMDG Proper shipping name:	Not regulated

15. REGULATORY INFORMATION

International Inver	tories
TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Not Listed.
IECSC	Complies
KECL	Complies
PICCS	Complies
DSL/NDSL EINECS/ELINCS ENCS IECSC KECL	Complies Complies Not Listed Complies Complies

AICS

Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances ENCS - Japan Existing and New Chemical Substances IECSC - China Inventory of Existing Chemical Substances KECL - Korean Existing and Evaluated Chemical Substances PICCS - Philippines Inventory of Chemicals and Chemical Substances AICS - Australian Inventory of Chemical Substances

US Federal Regulations

<u>SARA 313</u>

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals

Chemical Name	California Proposition 65		
SILICA, QUARTZ - 14808-60-7	Carcinogen		

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
LIMESTONE 1317-65-3	Х	X	Х
BENZYL ALCOHOL 100-51-6	-	X	Х
SILICON 7440-21-3	Х	X	Х
TITANIUM 7440-32-6	Х	-	-
SILICA, QUARTZ 14808-60-7	Х	X	Х
ALUMINUM FLAKE 7429-90-5	Х	X	Х

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

NFPA	Health hazards 2	Flammability 1	Instability 0	-
HMIS	Health hazards 2	Flammability 1	Physical hazards 0	Personal protection B

NFPA (National Fire Protection Association) HMIS (Hazardous Material Information System)

Revision Date 21-May-2015

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet