

Revision Date 02-Jun-2015

# SAFETY DATA SHEET

Version 1

# **1. IDENTIFICATION**

Product identifier Product Name	21425 FAST CURE EPOXY PART 2
Other means of identification Product Code Synonyms	150445E None
Recommended use of the chemical	and restrictions on use
Recommended Use	Epoxy curing agent
Uses advised against	No information available
Details of the supplier of the safety Manufacturer Address ITW Permatex 10 Columbus Blvd. Hartford, CT 06106 USA	<u>data sheet</u> <u>Distributor</u> ITW Permatex Canada 35 Brownridge Road, Unit 1 Halton Hills, ON Canada L7G 0C6 Telephone: (800) 924-6994
Company Phone Number	1-87-Permatex (877) 376-2839
24 Hour Emergency Phone Number	
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)

NOTE: This product is a consumer product and is labeled in accordance with the US Consumer Product Safety Commission regulations which take precedence over OSHA Hazard Communication labeling. The actual container label will not include the label elements below. The labeling below applies to industrial/professional products.

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Carcinogenicity	Category 2
Reproductive toxicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 1

#### Label elements

# Danger

Emergency Overview

Causes skin irritation Causes serious eye irritation Suspected of causing cancer

Odor Mercaptan

Suspected of damaging fertility or the unborn child Causes damage to organs through prolonged or repeated exposure

#### **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 Wear eye/face protection Do not breathe dust/fume/gas/mist/vapors/spray Do not eat, drink or smoke when using this product

#### 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 If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse

#### **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

35.405 % of the mixture consists of ingredient(s) of unknown toxicity

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### substance(s)

Chemical Name	CAS No	Weight-%	Trade Secret
ALUMINUM HYDROXIDE	21645-51-2	30 - 60	*
POLYMERCAPTAN CURING AGENT (TSRN 679485-5016p)	_	15 - 40	*
BENZYL ALCOHOL	100-51-6	5 - 10	*
2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL	90-72-2	5 - 10	*
STYRENE	100-42-5	1 - 5	*

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

# 4. FIRST AID MEASURES

# **Description of 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 skin with soap and water. If skin irritation persists, call a physician. Wash contaminated clothing before reuse.		
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 effe	ects, both acute and delayed		
Symptoms	See section 2 for more information.		
Indication of any immediate medicate	al attention and special treatment needed		
Note to physicians	Treat symptomatically.		
	5. FIRE-FIGHTING MEASURES		
Suitable extinguishing media Carbon dioxide (CO2), Dry chemical,	Foam		
<u>Unsuitable extinguishing media</u> None.			
Specific hazards arising from the c None in particular.	:hemical		
Explosion data Sensitivity to Mechanical Impact Sensitivity to Static Discharge	None. None.		
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 e			
	quipment and emergency procedures		
Personal precautions	<b>quipment and emergency procedures</b> 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	Store locked up.			
Incompatible materials	Strong oxidizing agents, Acids, Peroxides, Sodium hypochlorite, Calcium hypochlorite, Reactive metals			

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

#### Exposure Guidelines

	•		
Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
ALUMINUM HYDROXIDE 21645-51-2	TWA: 1 mg/m <sup>3</sup> respirable fraction	-	-
STYRENE	STEL: 40 ppm	TWA: 100 ppm	IDLH: 700 ppm
100-42-5	TWA: 20 ppm	(vacated) TWA: 50 ppm	TWA: 50 ppm
		(vacated) TWA: 215 mg/m <sup>3</sup>	TWA: 215 mg/m <sup>3</sup>
		(vacated) STEL: 100 ppm	STEL: 100 ppm
		(vacated) STEL: 425 mg/m <sup>3</sup>	STEL: 425 mg/m <sup>3</sup>
		Ceiling: 200 ppm	-

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, suc	ch 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	Viscous liquid Black Mercaptan No information available	
<u>Property</u> pH Melting point / freezing point Boiling point / boiling range Flash point	<u>Values</u> No information available No information available > 149 °C / 300 °F > 93 °C / > 200 °F	Remarks • Method
Evaporation rate Flammability (solid, gas) Flammability Limit in Air	< 1 No information available	Butyl acetate = 1
Upper flammability limit: Lower flammability limit: Vapor pressure	No information available No information available <5 mm Hg @ 77°F	Air 1
Vapor density Relative density Water solubility Solubility in other solvents	>1 1.4 Slightly soluble No information available	Air = 1
Partition coefficient Autoignition temperature Decomposition temperature	No information available No information available No information available	
Kinematic viscosity Dynamic viscosity Explosive properties Oxidizing properties	No information available No information available No information available No information available	
Other Information		
Softening point Molecular weight VOC Content (%) Density Bulk density	No information available No information available 3% No information available No information available	

# **10. STABILITY AND REACTIVITY**

#### <u>Reactivity</u> 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, Acids, Peroxides, Sodium hypochlorite, Calcium hypochlorite, Reactive metals

#### Hazardous Decomposition Products Carbon oxides Nitrogen oxides (NOx) Amines Ammonia

# **11. TOXICOLOGICAL INFORMATION**

Harmful by inhalation.

Information on likely routes of exposure

Inhalation

Eye contact	Contact with eyes ma	Contact with eyes may cause irritation. May cause redness and tearing of the eyes.				
Skin contact	May cause skin irritat	May cause skin irritation and/or dermatitis.				
Ingestion	Ingestion may cause	Ingestion may cause irritation to mucous membranes.				
Chemical Name	Oral LD50	Oral LD50 Dermal LD50 Inhalation LC50				
ALUMINUM HYDROXIDE 21645-51-2	> 5000 mg/kg (Rat)		-		-	
BENZYL ALCOHOL 100-51-6	= 1230 mg/kg (Rat)	= 2 g/	′kg (Rabbit)	= 8.8	3 mg/L (Rat)4 h	
2,4,6-TRIS(DIMETHYLAMINON HYL)PHENOL 90-72-2	IET = 1000 mg/kg (Rat)	= 1280	mg/kg (Rat)		-	
STYRENE 100-42-5	= 1000 mg/kg (Rat)		-	= 11.	7 mg/L (Rat)4 h	
Delayed and immediate eff	No information availa ects as well as chronic effects No information availa	from short and l	ong-term exposur	'e		
Delayed and immediate eff Sensitization Germ cell mutagenicity Carcinogenicity	ects as well as chronic effects No information availa No information availa The table below indic	from short and I ble. ble. ates whether each	agency has listed			
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Delayed and immediate eff         Sensitization         Germ cell mutagenicity         Carcinogenicity         Chemical Name         STYRENE         100-42-5         ACGIH (American Confered A3 - Animal Carcinogen IARC (International Agence Group 2B - Possibly Carcined NTP (National Toxicology Reasonably Anticipated - R OSHA (Occupational Safe X - Present         Chronic toxicity         Target Organ Effects         The following values are ca ATEmix (oral)	ects as well as chronic effects No information availa No information availa The table below indic ACGIH - ence of Governmental Industrial H exy for Research on Cancer) ogenic to Humans Program) easonably Anticipated to be a Huma ty and Health Administration of th May cause adverse li Central nervous syste alculated based on chapter 3.1 2458 mg/kg	s from short and I ble. ble. ates whether each IARC Group 2B ygienists) n Carcinogen te US Department of ver effects. Contai em, Eyes, Liver, Ro	agency has listed NTP Reasonably Anticip of Labor) ins a known or susp eproductive System	any ingredi	OSHA X	
Delayed and immediate eff         Sensitization         Germ cell mutagenicity         Carcinogenicity         Chemical Name         STYRENE         100-42-5         ACGIH (American Confered A3 - Animal Carcinogen IARC (International Agenci Group 2B - Possibly Carcino NTP (National Toxicology Reasonably Anticipated - R OSHA (Occupational Safe X - Present         Chronic toxicity         Target Organ Effects	ects as well as chronic effects No information availa No information availa The table below indic ACGIH - ence of Governmental Industrial H exy for Research on Cancer) ogenic to Humans Program) easonably Anticipated to be a Huma ty and Health Administration of th May cause adverse li Central nervous syste alculated based on chapter 3.1 2458 mg/kg 6461 mg/kg	s from short and I ble. ble. ates whether each IARC Group 2B ygienists) n Carcinogen te US Department of ver effects. Contai em, Eyes, Liver, Ro	agency has listed NTP Reasonably Anticip of Labor) ins a known or susp eproductive System	any ingredi	OSHA X	

# 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

88.93 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
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	
STYRENE	1.4: 72 h Pseudokirchneriella	3.24 - 4.99: 96 h Pimephales	3.3 - 7.4: 48 h Daphnia magna mg/L
100-42-5	subcapitata mg/L EC50 0.72: 96 h	promelas mg/L LC50 flow-through	EC50
	Pseudokirchneriella subcapitata	19.03 - 33.53: 96 h Lepomis	
		macrochirus mg/L LC50 static 58.75	
	Pseudokirchneriella subcapitata	- 95.32: 96 h Poecilia reticulata	
	mg/L EC50 static 0.46 - 4.3: 72 h	mg/L LC50 static 6.75 - 14.5: 96 h	
	Pseudokirchneriella subcapitata	Pimephales promelas mg/L LC50	

mg/L EC50 static	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	
STYRENE	2.95
100-42-5	

#### 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

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
STYRENE	Toxic
100-42-5	Ignitable

# 14. TRANSPORT INFORMATION

#### DOT

UN/ID no Proper shipping name: Hazard Class Packing Group	2735 Amines, liquid, corrosive, n.o.s, (2,4,6-tris(dimethylaminomethyl)phenol), Limited Quantity (LQ) 8 III
Emergency Response Guide Number	153
IATA UN/ID no Proper shipping name: Hazard Class ERG Code	ID 8000 Consumer commodity 9 9L
IMDG_ UN/ID no Proper shipping name: Hazard Class	2735 Amines, liquid, corrosive, n.o.s, (2,4,6-tris(dimethylaminomethyl)phenol), Limited Quantity (LQ) 8

Packing Group	III
EmS-No	F-A,

# **15. REGULATORY INFORMATION**

Complies
Complies
Not determined

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

S-B

**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**

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %
STYRENE - 100-42-5	0.1
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 contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
STYRENE 100-42-5	1000 lb	-	-	Х

#### CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
STYRENE	1000 lb	-	RQ 1000 lb final RQ
100-42-5			RQ 454 kg final RQ

#### US State Regulations

#### California Proposition 65

This product contains the following Proposition 65 chemicals

Chemical Name California Proposition 65			
CARBON BLACK - 1333-86-4	Carcinogen		
IIS State Pight to Know Pogulations			

Chemical Name	New Jersey	Massachusetts	Pennsylvania
STYRENE 100-42-5	Х	Х	Х
CARBON BLACK 1333-86-4	Х	Х	Х

## U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

#### WHMIS Hazard Class

D2A - Very toxic materials

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 02-Jun	-2015
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#### **Disclaimer**

The information provided in this 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