





SAFETY DATA SHEET

1. Product and Company Identification

PRODUCT NUMBER:	2133	COMPANY PHONE:	1-800-241-8180
PRODUCT NAME:	RAPID PATCH (Part A)	EMERGENCY TELEPHONE:	1-800-241-8180
PRODUCT DESCRIPTION:	Rapid Resin Repair	INFOTRAC:	1-800-535-5053
COMPANY INFORMATION:	PRO CHEM, INC. 1475 Bluegrass Lakes Parkway Alpharetta, GA 30004		

2. Hazards Identification

GHS CLASSIFICATION: Classification of the substance or mixture Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. Carc. 2 H351 Suspected of causing cancer. STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure. Acute Tox. 4 H332 Harmful if inhaled. Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation. Skin Sens. 1 H317 May cause an allergic skin reaction. STOT SE 3 H335 May cause respiratory irritation.	SIGNAL WORD: DANGER	SYMBOL:		
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Classification according to Directive 67/548/EEC or Directive 1999/45/EC

May cause eye and skin irritation. Prolonged contact may cause sensitization.

Information concerning particular hazards for human and environment:

The product has to be labeled due to internationally acknowledged calculation procedures using the latest valid versions.

Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

Hazard-determining components of labeling:

diphenylmethanediisocyanate, isomeres and homologues

4,4'-methylenediphenyl diisocyanate

methylenediphenyl diisocyanate

HAZARD STATEMENTS:

Harmful if inhaled.

Causes skin irritation.

Causes serious eye irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

Suspected of causing cancer.

May cause respiratory irritation.

May cause damage to organs through prolonged or repeated exposure.

PRECAUTIONARY STATEMENTS:

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Read label before use.

Do not breathe dust/fume/gas/mist/vapours/spray.

In case of inadequate ventilation wear respiratory protection.

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

Specific treatment (see on this label).

Storage: Store locked up.

Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations.

HAZARDS NOT OTHERWISE SPECIFIED:

Not applicable.

3. Composition / Information on Ingredients

CHEMICAL NAME	CAS	Concentration % by Weight
diphenylmethanediisocyanate, isomeres and homologues	9016-87-9	40
4,4'-methylenediphenyl diisocyanate	101-68-8	25-50
methylenediphenyl diisocyanate	26447-40-5	≤10
Phthalate ester	53306-54-0	10-25

Additional information: For the wording of the listed risk phrases refer to section 16.

4. First Aid Measures

EMERGENCY OVERVIEW

WARNING: Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

EYES: Rinse opened eye for several minutes under running water. Then consult a doctor.

SKIN: If skin irritation continues, consult a doctor.

INHALATION:

Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation.

INGESTION:

Seek medical treatment.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

No further relevant information available.

INDICATION OF ANY IMMEDIATE MEDICAL AND SPECIAL TREATMENT NEEDED:

o further relevant information available.

5. Fire-Fighting Measures

SUITABLE FIRE EXTINGUISHING MEDIA:

Use firefighting measures that suit the environment.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

No further relevant information available.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

Because fire may produce thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode. Mouth respiratory protective device.

6. Accidental Release Measures

PERSONAL PRECAUTIONS:

Wear protective equipment. Keep unprotected persons away.

ENVIRONMENTAL PRECAUTIONS AND CLEAN-UP METHODS:

Do not allow product to reach sewage system or any water course. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

REFERENCE TO OTHER SECTIONS:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7. Handling and Storage

SAFE HANDLING:

Wear appropriate personal protective clothing to prevent eye and skin contact. Avoid breathing vapors or mists of this product. Use with adequate ventilation. Do not take internally.

PROTECTION AGAINST EXPLOSION/FIRE:

No special measures required.

SAFE STORAGE:

No special requirements. Keep receptacle tightly sealed.

8. Exposure Controls / Personal Protection

Control parameters

Components with limit values that require monitoring at the workplace:

101-68-8 4,4'-methylenediphenyl diisocyanate

PEL: Ceiling limit value: 0.2 mg/m³, 0.02 ppm

REL: Long-term value: 0.05 mg/m³, 0.005 ppm

Ceiling limit value: 0.2* mg/m³, 0.02* ppm

*10-min

TLV Long-term value: 0.051 mg/m³, 0.005 ppm

Additional information: The lists that were valid during the creation were used as basis.

PERSONAL PROTECTIVE EQUIPMENT:



GENERAL PROTECTIVE MEASURES: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

SKIN PROTECTION: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

EYE PROTECTION: Wear appropriate eye protection to prevent eye contact.

RESPIRATORY PROTECTION: Suitable respiratory protective device recommended.

9. Physical & Chemical Properties

Appearance:		Flammability(gas/solid):	Not applicable.
Form:	Liquid	Flash Point:	> 160 °C (> 320 °F)
Color:	Brown Liquid	Auto-Igniting:	Product is not self-igniting.
Odor:	Slightly Musty	Explosive Limit – lower (%):	0.4 Vol %
Odor Threshold:	Not determined.	Explosive Limit – upper (%):	Not determined.
pH:	Not determined.	Vapor Density:	Not determined.
Melting Point/Range:	Undetermined.	Density(20 °C (68 °F):	1.272 g/cm ³ (10.615 lbs/gal)
Boiling Point/Range:	314 °C (597 °F)	Relative Density:	Not determined.
Partition Coeff (n-octanol/water):	Not determined.	Solubility (water):	Not miscible or difficult to mix.

Viscosity(dynamic/kinematic):	Not determined.	Ignition Temperature:	400 °C (752 °F)
Solvent Content (organic):	0.0 %	Decomposition Temperature:	Not determined.
Danger of Explosion	Product does not present an explosion hazard.	Evaporation Rate:	Not determined.
Solid Content:	100.0%	VOC:	Not determined.

10. Stability & Reactivity Information

POSSIBILITY OF HAZARDOUS REACTIONS:

No dangerous reactions known.

INCOMPATIBLE MATERIALS:

No further relevant information available.

CONDITIONS TO AVOID:

No further relevant information available.

THERMAL DECOMPOSITION PRODUCTS:

No decomposition if used according to specifications.

HAZARDOUS DECOMPOSITION PRODUCTS:

No dangerous decomposition products known.

11. Toxicological Information

Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification:

101-68-8 4,4'-methylenediphenyl diisocyanate

Oral LD50 2200 mg/kg (mouse)

PRIMARY IRRITANT EFFECT:

EYES: Irritating effect.

SKIN: May cause skin irritation.

SENSITIZATION:

Sensitization possible through inhalation.

Sensitization possible through skin contact.

ADDITIONAL TOXICOLOGICAL INFORMATION:

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Irritant

CARCINOGENIC CATEGORIES:

IARC (International Agency for Research on Cancer)

9016-87-9

diphenylmethanediisocyanate, isomeres and homologues

101-68-8

4,4'-methylenediphenyl diisocyanate

NTP (National Toxicology Program)

None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients are listed.

12. Ecological Information

TOXICITY:

Aquatic toxicity: No further relevant information available.

• **Persistence and degradability** No further relevant information available.

• **Bioaccumulative potential** No further relevant information available.

• **Mobility in soil** No further relevant information available.

ADDITIONAL ECOLOGICAL INFORMATION:

• **General notes:** Water hazard class 1 (Self-assessment): slightly hazardous for water

• **Results of PBT and vPvB assessment**

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

OTHER ADVERSE EFFECTS:

No further relevant information available.

13. Disposal Consideration

It is the generator's responsibility to determine if the waste meets applicable definitions of hazardous waste. State and local regulations may differ from federal disposal regulations. Dispose of waste material according to local, state, federal, and provincial environmental regulations.

UNCLEANED PACKAGING:

Disposal must be made according to Federal, State, and Local regulations.

14. Transportation Information

UN-Number

• **DOT, ADR, IMDG, IATA** Not Regulated

UN proper shipping name

• **ADR** Not Regulated

Transport hazard class(es)

• **DOT, ADR, IMDG, IATA**

• **Class** N/A

Packing group

• **DOT, ADR, IMDG, IATA** III

Environmental hazards:

Marine pollutant: No
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
 Not applicable.

Transport/Additional information:

ADR
U.S. Domestic Ground Shipments: Same as listed for Standard Shipments above.
U.S. Domestic Ground Non-Bulk (119 gal or less per container) Shipments: Same as listed for Standard Shipments above.
Emergency Response Guide (ERG) Number: Not determined
UN "Model Regulation": UN-, -, N/A, III

15. Regulatory Information**Safety, health and environmental regulations/legislation specific for the substance or mixture/Sara****Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

Section 313 (Specific toxic chemical listings):

This product may contain 1 or more toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR part 372. If so, the chemicals are listed below..

CHEMICAL NAME	CAS NO	% BY WT
diphenylmethanediisocyanate, isomeres and homologues	9016-87-9	25-50
4,4'-methylenediphenyl diisocyanate	101-68-8	25-50

TSCA (Toxic Substances Control Act):

All ingredients are listed.

Proposition 65**Chemicals known to the State of California (Prop. 65) to cause cancer:**

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

CARCINOGENICITY CATEGORIES:**EPA (Environmental Protection Agency)**

9016-87-9	diphenylmethanediisocyanate, isomeres and homologues	CBD
101-68-8	4,4'-methylenediphenyl diisocyanate	D, CBD

TLV (Threshold Limit Value established by ACGIH)

None of the ingredients are listed.

MAK (German Maximum Workplace Concentration)

9016-87-9	diphenylmethanediisocyanate, isomeres and homologues	4
101-68-8	4,4'-methylenediphenyl diisocyanate	4

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients are listed.

Hazard-determining components of labeling:

diphenylmethanediisocyanate, isomeres and homologues
 4,4'-methylenediphenyl diisocyanate
 methylenediphenyl diisocyanate

Hazard statements

Harmful if inhaled.
 Causes skin irritation.
 Causes serious eye irritation.
 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 May cause an allergic skin reaction.
 Suspected of causing cancer.
 May cause respiratory irritation.
 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

If medical advice is needed, have product container or label at hand.
 Keep out of reach of children.
 Read label before use.
 Do not breathe dust/fume/gas/mist/vapours/spray.
 In case of inadequate ventilation wear respiratory protection.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 Specific treatment (see on this label).
 Store locked up.
 Dispose of contents/container in accordance with local/regional/national/international regulations.

National regulations:

Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. Other Information**Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises danger uses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation
 IATA: International Air Transport Association
 ACGIH: American Conference of Governmental Industrial Hygienists
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 NFPA: National Fire Protection Association (USA)
 HMIS: Hazardous Materials Identification System (USA)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 Acute Tox. 4: Acute toxicity, Hazard Category 4
 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
 Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A
 Resp. Sens. 1: Sensitization - Respirat., Hazard Category 1
 Skin Sens. 1: Sensitization - Skin, Hazard Category 1
 Carc. 2: Carcinogenicity, Hazard Category 2
 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
 STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
 N/A = Not Applicable; N/D = Not Determined

NFPA	Health Hazards: 2	Flammability: 1	Instability: 1	Physical & Chemical Properties:
HMIS	Health Hazards: 2*	Flammability: 1	Physical hazards: 1	Personal protection:

DISCLAIMER:

To the best of our knowledge, information contained herein is accurate. However, there is no assumption of liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazard, which exists. The information contained in this SDS was obtained from current and reliable sources; however, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions or handling, storage and disposal of this product are beyond the control of the manufacturer, the manufacturer will not be responsible for loss, injury, or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this SDS shall be created or inferred by any statement in this SDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product, which may not be covered by this SDS. The user is responsible for full compliance.



SAFETY DATA SHEET

1. Product and Company Identification

PRODUCT NUMBER:	2133	COMPANY PHONE:	1-800-241-8180
PRODUCT NAME:	RAPID PATCH (Part B)	EMERGENCY TELEPHONE:	1-800-241-8180
PRODUCT DESCRIPTION:	Rapid Resin Repair	INFOTRAC:	1-800-535-5053
COMPANY INFORMATION:	PRO CHEM, INC. 1475 Bluegrass Lakes Parkway Alpharetta, GA 30004		

2. Hazards Identification

GHS CLASSIFICATION:

Classification of the substance or mixture

Muta. 1B H340 May cause genetic defects.
Carc. 1B H350 May cause cancer.
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2A H319 Causes serious eye irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.
H227 Combustible liquid.

SIGNAL WORD:
DANGER

SYMBOL:



Classification according to Directive 67/548/EEC or Directive 1999/45/EC

May cause eye and skin irritation. Prolonged contact may cause sensitization.

Information concerning particular hazards for human and environment:

The product has to be labeled due to internationally acknowledged calculation procedures using the latest valid versions.

Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

Hazard-determining components of labeling:

Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700) Stoddard solvent

HAZARD STATEMENTS:

Combustible liquid.
Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
May cause genetic defects.
May cause cancer.
May be fatal if swallowed and enters airways.

PRECAUTIONARY STATEMENTS:

If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read label before use.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Avoid breathing dust/fume/gas/mist/vapors/spray.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Specific treatment (see on this label).

Storage: Store locked up.

Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations.

HAZARDS NOT OTHERWISE SPECIFIED:

Results of PBT and vPvB assessment:
PBT: Not applicable.
vPvB: Not applicable.

3. Composition / Information on Ingredients

Description: Mixture of the substances listed below with nonhazardous additions.

CHEMICAL NAME	CAS	Concentration % by Weight
Stoddard solvent	8052-41-3	≤11
Polyether polyol Blend		≤80

Additional information: For the wording of the listed risk phrases refer to section 16.

4. First Aid Measures

EMERGENCY OVERVIEW

EYES: Rinse opened eye for several minutes under running water. Then consult a doctor.

SKIN: If skin irritation continues, consult a doctor.

INHALATION:

Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation.

INGESTION:

Seek medical treatment.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

No further relevant information available.

INDICATION OF ANY IMMEDIATE MEDICAL AND SPECIAL TREATMENT NEEDED:

No further relevant information available.

5. Fire-Fighting Measures**SUITABLE FIRE EXTINGUISHING MEDIA:**CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.**SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:**

No further relevant information available.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

Because fire may produce thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

6. Accidental Release Measures**PERSONAL PRECAUTIONS:**

Wear protective equipment. Keep unprotected persons away.

ENVIRONMENTAL PRECAUTIONS AND CLEAN-UP METHODS:

Inform respective authorities in case of seepage into water course or sewage system. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

REFERENCE TO OTHER SECTIONS:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7. Handling and Storage**SAFE HANDLING:**

Wear appropriate personal protective clothing to prevent eye and skin contact. Avoid breathing vapors or mists of this product. Use with adequate ventilation. Do not take internally.

PROTECTION AGAINST EXPLOSION/FIRE:

Keep respiratory protective device available.

SAFE STORAGE:

No special requirements. Keep receptacle tightly sealed. No further relevant information available.

8. Exposure Controls / Personal Protection**ADDITIONAL INFORMATION ABOUT DESIGN OF TECHNICAL SYSTEMS:**

No further data; see Section 7.

CONTROL PARAMETERS:**Components with limit values that require monitoring at the workplace: 8052-41-3 Stoddard solvent****PEL** Long-term value: 2900 mg/m³, 500 ppm**REL** Long-term value: 350 mg/m³
Ceiling limit value: 1800* mg/m³
*15-min**TLV** Long-term value: 525 mg/m³, 100 ppm**ADDITIONAL INFORMATION:**

The lists that were valid during the creation were used as basis.

PERSONAL PROTECTIVE EQUIPMENT:**GENERAL PROTECTIVE MEASURES:** Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes and skin.**SKIN PROTECTION:** The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.**EYE PROTECTION:** Wear appropriate eye protection to prevent eye contact.**RESPIRATORY PROTECTION:** In case of brief exposure or low pollution, use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.**9. Physical & Chemical Properties**

Appearance:		Flammability(gas/solid):	Not applicable.
Form:	Liquid	Flash Point:	82 °C (180 °F)
Color:	Tan	Auto-Igniting:	Product is not self-igniting.
Odor:	Characteristic	Explosive Limit – lower (%):	1.1 Vol %
Odor Threshold:	Not determined.	Explosive Limit – upper (%):	6.0 Vol %
pH:	Not determined.	Vapor Density:	Not determined.
Melting Point/Range:	Undetermined.	Density(20 °C (68 °F):	1.2 g/cm ³ (10.014 lbs/gal)
Boiling Point/Range:	Undetermined.	Relative Density:	Not determined.
Partition Coeff (n-octanol/water):	Not determined.	Solubility (water):	Not miscible or difficult to mix.
Viscosity(dynamic/kinematic):	Not determined.	Ignition Temperature:	230 °C (446 °F)
Solvent Content (organic):	0.0 %	Decomposition Temperature:	Not determined.
Danger of Explosion:	Not determined.	Evaporation Rate:	Not determined.
Solids Content:	75.0 %	VOC:	Not determined.
Vapor Pressure (20°C) (68°F)	1.0 hPa (1 mm Hg)		

10. Stability & Reactivity Information

POSSIBILITY OF HAZARDOUS REACTIONS:

No dangerous reactions known.

INCOMPATIBLE MATERIALS:

No further relevant information available.

CONDITIONS TO AVOID:

No further relevant information available.

THERMAL DECOMPOSITION PRODUCTS:

No decomposition if used according to specifications.

HAZARDOUS DECOMPOSITION PRODUCTS:

No dangerous decomposition products known.

11. Toxicological Information

PRIMARY IRRITANT EFFECT:

EYES: Irritating effect.

SKIN: May cause skin irritation.

SENSITIZATION:

Sensitization possible through skin contact.

ADDITIONAL TOXICOLOGICAL INFORMATION:

The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

CARCINOGENIC CATEGORIES:

IARC (International Agency for Research on Cancer): None of the ingredients are listed.

NTP (National Toxicology Program): None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration): None of the ingredients are listed.

12. Ecological Information

TOXICITY:

Aquatic toxicity: No further relevant information available.

· **Persistence and degradability** No further relevant information available.

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

ECOTOXICAL EFFECTS:

Toxic for fish

ADDITIONAL ECOLOGICAL INFORMATION:

· **General notes:** Water hazard class 1 (Self-assessment): slightly hazardous for water

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

OTHER ADVERSE EFFECTS:

No further relevant information available.

13. Disposal Consideration

It is the generator's responsibility to determine if the waste meets applicable definitions of hazardous waste. State and local regulations may differ from federal disposal regulations. Dispose of waste material according to local, state, federal, and provincial environmental regulations.

UNCLEANED PACKAGING:

Disposal must be made according to Federal, State, and Local regulations.

14. Transportation Information

UN-NUMBER:

· **DOT, ADR, IMDG, IATA** Not Regulated

UN PROPER SHIPPING NAME:

· **ADR** Not Regulated

TRANSPORT HAZARD CLASS(es)

· **DOT, ADR, IMDG, IATA**

· **Class** N/A

ADR

PACKING GROUP:

· **DOT, ADR, IMDG, IATA** III

ENVIRONMENTAL HAZARDS:

· **Marine pollutant:** No

· **Special marking (ADR):** Symbol (fish and tree)

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 & THE IBC CODE:

Not applicable.

ADR

U.S. Domestic Ground Shipments: Same as listed for Standard Shipments above.

U.S. Domestic Ground Non-Bulk (119 gal or less per container) Shipments: Same as listed for Standard Shipments above.

· **Emergency Response Guide (ERG) Number:** Not determined

UN "MODEL REGULATION:"

UN-, -, N/A, III



15. Regulatory Information

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

Section 355 (extremely hazardous substances): None of the ingredient is listed.

Section 313 (Specific toxic chemical listings):

This product may contain 1 or more toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR part 372. If so, the chemicals are listed below. None of the ingredients are listed.

TSCA (Toxic Substances Control Act): All ingredients are listed.

PROPOSITION 65:

Chemicals known to the State of California (Prop. 65) to cause cancer:

25068-38-6: reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)

Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed.

Chemicals known to cause developmental toxicity: None of the ingredients is listed.

CARCINOGENICITY CATEGORIES:

EPA (Environmental Protection Agency): None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH): None of the ingredients is listed.

MAK (German Maximum Workplace Concentration): None of the ingredients is listed.

NIOSH-Ca (National Institute for Occupational Safety and Health): None of the ingredients is listed.

HAZARD-DETERMINING COMPONENTS OF LABELING:

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)

Stoddard solvent

NATIONAL REGULATIONS:

Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. Other Information

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises danger uses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

Resp. Sens. 1: Sensitization - Respirat., Hazard Category 1

Skin Sens. 1: Sensitization - Skin, Hazard Category 1

Carc. 2: Carcinogenicity, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

N/A = Not Applicable; N/D = Not Determined

NFPA	Health Hazards: 1	Flammability: 1	Instability: 0	Physical & Chemical Properties:
HMIS	Health Hazards: 1	Flammability: 1	Physical hazards: 0	Personal protection:

DISCLAIMER:

To the best of our knowledge, information contained herein is accurate. However, there is no assumption of liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazard, which exists. The information contained in this SDS was obtained from current and reliable sources; however, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions or handling, storage and disposal of this product are beyond the control of the manufacturer, the manufacturer will not be responsible for loss, injury, or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this SDS shall be created or inferred by any statement in this SDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product, which may not be covered by this SDS. The user is responsible for full compliance.




SAFETY DATA SHEET

1. Product and Company Identification

PRODUCT NUMBER:	2133	COMPANY PHONE:	1-800-241-8180
PRODUCT NAME:	RAPID PATCH (Part C)	EMERGENCY TELEPHONE:	1-800-241-8180
PRODUCT DESCRIPTION:	Rapid Resin Repair	INFOTRAC:	1-800-535-5053
COMPANY INFORMATION:	PRO CHEM, INC. 1475 Bluegrass Lakes Parkway Alpharetta, GA 30004		

2. Hazards Identification

GHS CLASSIFICATION: Carc. 1A H350 May cause cancer.	SIGNAL WORD: DANGER	SYMBOL:	
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Classification according to Directive 67/548/EEC or Directive 1999/45/EC
May cause eye and skin irritation. Prolonged contact may cause sensitization.

Information concerning particular hazards for human and environment:

Not applicable.

Hazard-determining components of labeling:

Quartz (SiO₂)

HAZARD STATEMENTS:

May cause cancer.

PRECAUTIONARY STATEMENTS:

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Read label before use.

Use personal protective equipment as required.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

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

Storage: Store locked up.

Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations.

HAZARDS NOT OTHERWISE SPECIFIED:

Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

3. Composition / Information on Ingredients

CHEMICAL NAME	CAS	EC #
Quartz (SiO ₂)	14808-60-7	238-878-4
Identification number(s) Not applicable		

4. First Aid Measures

EMERGENCY OVERVIEW

EYES: Rinse opened eye for several minutes under running water. Then consult a doctor.

SKIN: If skin irritation continues, consult a doctor.

INHALATION:

Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation.

INGESTION:

Seek medical treatment.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

No further relevant information available.

INDICATION OF ANY IMMEDIATE MEDICAL AND SPECIAL TREATMENT NEEDED:

No further relevant information available.

5. Fire-Fighting Measures

SUITABLE FIRE EXTINGUISHING MEDIA:

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

No further relevant information available.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

Because fire may produce thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

6. Accidental Release Measures

PERSONAL PRECAUTIONS:

Wear protective equipment. Keep unprotected persons away.

ENVIRONMENTAL PRECAUTIONS AND CLEAN-UP METHODS:

No special measures required. Do not allow to enter sewers/ surface or ground water. Ensure adequate ventilation.

REFERENCE TO OTHER SECTIONS:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7. Handling and Storage

SAFE HANDLING:

Wear appropriate personal protective clothing to prevent eye and skin contact. Avoid breathing vapors or mists of this product. Use with adequate ventilation. Do not take internally.

PROTECTION AGAINST EXPLOSION/FIRE:

No special measures required.

SAFE STORAGE:

No special requirements. Keep receptacle tightly sealed. No further relevant information available.

8. Exposure Controls / Personal Protection

ADDITIONAL INFORMATION ABOUT DESIGN OF TECHNICAL SYSTEMS:

No further data; see Section 7.

Components with limit values that require monitoring at the workplace: 14808-60-7 Quartz (SiO₂)

PEL see Quartz listing

REL Long-term value: 0.05* mg/m³

*respirable dust; See Pocket Guide App. A

TLV Long-term value: 0.025* mg/m³

*as respirable fraction

ADDITIONAL INFORMATION:

The lists that were valid during the creation were used as basis.

PERSONAL PROTECTIVE EQUIPMENT:



GENERAL PROTECTIVE MEASURES: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

SKIN PROTECTION: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

EYE PROTECTION: Wear appropriate eye protection to prevent eye contact.

RESPIRATORY PROTECTION: Suitable respiratory protective device recommended.

9. Physical & Chemical Properties

Appearance:		Flammability(gas/solid):	Product is not flammable.
Form:	Solid	Flash Point:	Not applicable.
Color:	Various	Auto Igniting:	Not determined.
Odor:	Characteristic	Explosive Limit – lower (%):	Not determined.
Odor Threshold:	Not determined.	Explosive Limit – upper (%):	Not determined.
pH:	Not applicable.	Vapor Density:	Not applicable.
Melting Point/Range:	1713 °C (3115 °F)	Density(20 °C (68 °F):	2.65 g/cm ³ (22.114 lbs/gal)
Boiling Point/Range:	> 999 °C (> 1830 °F)	Relative Density:	Not determined.
Partition COeff (n-octanol/water):	Not determined.	Solubility (water):	Insoluble.
Viscosity(dynamic/kinematic):	Not applicable.	Decomposition Temperature:	Not determined.
Danger of Explosion:	Product does not present an explosion hazard.	VOC:	Not determined.
Solids Content:	100.0 %	Bulk Density(20°C) (68°F):	1400 kg/m ³
Vapor Pressure (1732 °C) (3150°F)	13.5 hPa (10 mm Hg)	Organic Solvents:	0.0%

10. Stability & Reactivity Information

POSSIBILITY OF HAZARDOUS REACTIONS:

No dangerous reactions known.

INCOMPATIBLE MATERIALS:

No further relevant information available.

CONDITIONS TO AVOID:

No further relevant information available.

THERMAL DECOMPOSITION PRODUCTS:

No decomposition if used according to specifications.

HAZARDOUS DECOMPOSITION PRODUCTS:

No dangerous decomposition products known.

11. Toxicological Information

Information on toxicological effects

Acute toxicity:

PRIMARY IRRITANT EFFECT:

EYES: Irritating effect.

SKIN: May cause skin irritation.

SENSITIZATION:

Sensitization possible through skin contact.

ADDITIONAL TOXICOLOGICAL INFORMATION:

CARCINOGENIC CATEGORIES:

IARC (International Agency for Research on Cancer)

14808-60-7	Quartz (SiO ₂)	1
13463-67-7	titanium dioxide	2B
1309-37-1	diron trioxide	3

NTP (National Toxicology Program)

14808-60-7	Quartz (SiO ₂)	K
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OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

12. Ecological Information

TOXICITY:

Aquatic toxicity: No further relevant information available.

- **Persistence and degradability** No further relevant information available.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.

ADDITIONAL ECOLOGICAL INFORMATION:

- **General notes:** Generally not hazardous for water
Water hazard class 1 (Assessment by list): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Danger to drinking water if even extremely small quantities leak into the grounds.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

OTHER ADVERSE EFFECTS:

No further relevant information available.

13. Disposal Consideration

Must not be disposed of as normal garbage. Do not allow product to reach sewage system. It is the generator's responsibility to determine if the waste meets applicable definitions of hazardous waste. State and local regulations may differ from federal disposal regulations. Dispose of waste material according to local, state, federal, and provincial environmental regulations

UNCLEANED PACKAGING:

Disposal must be made according to Federal, State, and Local regulations.

14. Transportation Information

UN-NUMBER:

- DOT, ADR, IMDG, IATA Not Regulated

UN PROPER SHIPPING NAME:

- ADR Not Regulated

TRANSPORT HAZARD CLASS(es):

DOT, ADR, IMDG, IATA
Class N/A

PACKING GROUP:

- DOT, ADR, IMDG, IATA III

ENVIRONMENTAL HAZARDS:

- **Marine pollutant:** No

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 & THE IBC CODE:

Not applicable.

TRANSPORT/ADDITIONAL INFORMATION:

ADR

- **U.S. Domestic Ground Shipments:** Same as listed for Standard Shipments above.
 - **U.S. Domestic Ground Non-Bulk (119 gal or less per container) Shipments:** Same as listed for Standard Shipments above.
- Emergency Response Guide (ERG) Number:** Not determined

15. Regulatory Information

SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE/SARA:

- **Section 355 (extremely hazardous substances):** Substance is not listed.
- **Section 313 (Specific toxic chemical listings):** This product may contain 1 or more toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR part 372. If so, the chemicals are listed below. 1344-28-1 aluminum oxide □□□1%

TSCA (Toxic Substances Control Act):

Substance is listed.

PROPOSITION 65:

- **Chemicals known to the State of California (Prop. 65) to cause cancer:**

14808-60-7 Quartz (SiO₂)
13463-67-7 titanium dioxide

Chemicals known to cause reproductive toxicity for females: Substance is not listed.

Chemicals known to cause reproductive toxicity for males: Substance is not listed.

Chemicals known to cause developmental toxicity: Substance is not listed.

CANCEROGENITY CATEGORIES:

EPA (Environmental Protection Agency): Substance is not listed.

TLV (Threshold Limit Value established by ACGIH)

14808-60-7 Quartz (SiO₂) A2

1344-28-1 aluminium oxide A4

13463-67-7 titanium dioxide A4

1309-37-1 diiron trioxide A4

MAK (German Maximum Workplace Concentration)

14808-60-7 Quartz (SiO₂) 1

1344-28-1 aluminium oxide 2

13463-67-7 titanium dioxide 3A

NIOSH-Ca (National Institute for Occupational Safety and Health)

14808-60-7 Quartz (SiO₂)

13463-67-7 titanium dioxide

CHEMICAL SAFETY ASSESSMENT:

A Chemical Safety Assessment has not been carried out.

16. Other Information

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises danger uses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

Resp. Sens. 1: Sensitization - Respirat., Hazard Category 1

Skin Sens. 1: Sensitization - Skin, Hazard Category 1

Carc. 2: Carcinogenicity, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

N/A = Not Applicable; N/D = Not Determined

NFPA	Health Hazards: 1	Flammability: 0	Instability: 0	Physical & Chemical Properties:
HMIS	Health Hazards: 1	Flammability: 0	Physical hazards: 0	Personal protection:

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