

SAFETY DATA SHEET

Section 1 – Product & Company Identification

Product Name: RIDGID PIPE PATCH RESIN

Product Catalog No.: 74863 74878

Product Model: Pipe Patch Resin Only, Two Pipe Patch Resin Only, Two

Bottles (3') Bottles (32")

Product Specifications: This product is a Two-Component Organic Silicate Mineral. It

has a set of two containers, one marked "Part A" and one

marked "Part B".

The Part A and Part B are used together. All of the Part A is poured in Part B and vigorously shaken and the resin mix is

used to wet out the patch.

The Safety Data Sheet (SDS) contains SDS for both Part A and Part B. Please do not separate the component documents

from this cover page.

Use the chart to determine the appropriate Part of SDS.

Resin Part	SDS	Page Numbers
Part A	Part A	3-14
Part B	Part B	15-31

Recommended Use: For use with RIDGID Pipe Patch

Restrictions on Use: Industrial use only



Company Information:

North America

Ridge Tool Company 400 Clark Street Elyria, Ohio 44035-6001 1-800-519-3456 (8:00 am – 5:00 pm EST, M-F) Emergency Telephone call 9-1-1 or local emergency number

www.RIDGID.com

<u>Australia</u>

Ridge Tool Australia 127 Metrolink Circuit Campbellfield, VIC 3061 1-800-743-443 (8:30 am – 5:00 pm AEST, M-F) Emergency Telephone call 000 or local emergency number

www.RIDGID.com.au

Europe

Ridge Tool NV Schurhovenveld 4820 3800 Sint-Truiden, Belgium +32 (0) 11 598 600 (8:00 am – 5:00 pm, M-F) Emergency Telephone call +32 (0) 11 598 600 or local emergency number www.RIDGID.eu

Issue Date: June 27, 2022

Revision: A



Part A: Pipe Patch Resin Part A

Part A: SDS for Pipe Patch Resin Part A

Section 1A - Product Identification

Product Name:

RIDGID Pipe Patch Resin Part A

Section 2A – Hazards Identification

Appearance Liquid, Clear, colorless to slightly yellow

Liquid Physical state

Odorless Odor

Classification

Skin corrosion/irritation	Category 1	
Serious eye damage/eye irritation	Category 1	

Signal Word Danger

Hazard statements Causes severe skin burns and eye damage



<u>Precautionary Statements -</u> Do not breathe dusts or mists

Prevention

Wash face, hands and any exposed skin thoroughly

after handling

Wear protective gloves/protective clothing/eye

protection/face protection



Part A: Pipe Patch Resin Part A

Response

<u>Precautionary Statements -</u> Immediately call a POISON CENTER or doctor

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

Immediately call a POISON CENTER or doctor

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower

Wash contaminated clothing before reuse

IF INHALED: Remove person to fresh air and keep comfortable for breathing

Immediately call a POISON CENTER or doctor

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

Precautionary Statements - Store locked up

Storage

<u>Precautionary Statements -</u>

Disposal

Dispose of contents/container to an approved waste

disposal plant

Section 3A – Composition / Information On Ingredients

Chemical name	CAS No	Weight-%
Sodium Silicate	1344-09-8	25-50

^{**}If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.**



Part A: Pipe Patch Resin Part A

Section 4A – First Aid Measures

Description of first aid measures

General Advice Immediately call a poison center or doctor/physician.

Eye Contact Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or

doctor/physician.

Skin Contact Take off immediately all contaminated clothing. Rinse

skin with water/shower. Wash contaminated clothing

before reuse.

Inhalation Remove person to fresh air and keep comfortable for

breathing. Immediately call a poison center or

doctor/physician.

Ingestion Rinse mouth. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed

Symptoms Causes severe skin burns and eye damage.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.



Part A: Pipe Patch Resin Part A

Section 5A – Fire Fighting Measures

Suitable Extinguishing Media

The product itself is non-combustible. Adapt fire extinguishing measures to surrounding areas. Water spray, carbon dioxide, dry chemical extinguishing agent (powder), foam.

Unsuitable Extinguishing Water with a full water jet. Media

Specific Hazards Arising from the Chemical

Fire in vicinity poses risk of pressure build-up and burst. Containers at risk from fire should be cooled with water spray. Fire residues and contaminated extinguishing water should be disposed of in accordance with local authority regulations. Carbon dioxide should be applied carefully in confined spaces since it can displace oxygen.

Protective equipment and precautions for firefighters

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

Section 6A – Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions Use personal protective clothing. Avoid contact with

skin, eyes, and clothing. High risk of slipping due to

leakage/spillage of product.

Environmental precautions

Environmental precautions Do not allow to enter drains or waterways. Prevent

spread over a wide area (e.g. by containment or oil



Part A: Pipe Patch Resin Part A

barriers). 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 Clean-Up Take up with absorbent material (e.g. sand, kieselguhr,

universal binder). Rinse away rest with plenty of water.

Dispose according to authority regulations.

Section 7A – Handling And Storage

Precautions for safe handling

Advice on Safe Handling Do not breathe dusts or mists. Wash face, hands and

any exposed skin thoroughly after handling. Wear protective gloves/protective clothing and eye/face

protection.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store locked up.

Incompatible Materials Acids. Reacts with metals like aluminum, tin, zinc under

evolution of hydrogen and heat.

Section 8A – Exposure Controls / Personal Protection

Exposure Guidelines This product, as supplied, does not contain any

hazardous materials with occupational exposure limits

established by the region specific regulatory bodies

Appropriate engineering controls

Engineering Controls Showers. Eyewash stations. Ventilation systems.



Part A: Pipe Patch Resin Part A

Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses with side protection.

Skin and Body Protection Tested protective gloves must be worn. Suitable material:

NBR (nitrile rubber), butyl rubber. Clothing as usual in

the chemical industry.

Respiratory Protection Usually, no personal respiratory protection is needed. It

is only required when the exposure limit value is exceeded, or in the event of aerosol/mist formation.

Suitable respiratory protection.

General Hygiene (

Considerations

Hygiene Observe the usual precautions when handling chemicals.

Avoid contact with skin and eyes. Do not breathe aerosol. Do not eat, drink or smoke during working time.

Take off immediately all contaminated clothing and wash before reuse. Hands and/or face should be washed

before breaks and at the end of the shift. Take a shower, if necessary. Apply skin care products after work.

Section 9A – Physical And Chemical Properties

Information on basic physical and chemical properties

Physical state Liquid

Appearance Liquid, Clear, colorless to slightly yellow

Colorless to slightly yellow

Odorless

Odor Threshold Not determined

<u>Property</u> <u>Values</u>

pH 13-14

Melting point / freezing point Not determined



Part A: Pipe Patch Resin Part A

Boiling point / boiling range $>100 \, ^{\circ}\text{C} \, / \, >212 \, ^{\circ}\text{F}$

Flash point Does not ignite

Evaporation Rate Not determined

Flammability (Solid, Gas) Liquid-Not applicable

Flammability Limit in Air

Upper flammability or explosive limits Not determined

Lower flammability or explosive limits Not determined

Vapor Pressure Not determined

Vapor Density Not determined

Relative Density 1.5 +/- 0.1 g/cm3 (25DEGC/77DEGF)

Water Solubility Completely miscible

Solubility in other solvents Not determined

Partition Coefficient Not determined

Autoignition temperature Not determined

Decomposition temperatureNot determined

Kinematic viscosity Not determined

Dynamic Viscosity 400 +/- 50 mPas (25DEGC/77DEGF)

Explosive Properties Not determined

Oxidizing Properties Not determined



Part A: Pipe Patch Resin Part A

Section 10A – Stability And Reactivity

Reactivity

Not reactive under normal conditions.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to Avoid

Protect from frost.

Incompatible materials

Acids. Reacts with metals like aluminum, tin, zinc under

evolution of hydrogen and heat.

Hazardous decomposition products

None known based on information supplied.

Section 11A – Toxicological Information

Information on likely routes of exposure

Product Information

Eye Contact Avoid contact with eyes. **Skin Contact** Avoid contact with skin.

InhalationDo not inhale.IngestionDo not ingest.

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Silicate 1344-09-8	= 1960 mg/kg (Rat)	-	-



Part A: Pipe Patch Resin Part A

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Please see section 4 of this SDS for symptoms

Delayed and immediate effects as well as chronic effects from short and longterm exposure

Skin corrosion/irritation

irritation

Causes severe skin burns. Serious eye damage/eye Causes severe eye damage.

Carcinogenicity Based on the information provided, this product does not

contain any carcinogens or potential carcinogens as

listed by OSHA, IARC or NTP.

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

Oral LD50 5,226.6667 mg/kg

Section 12A – Ecological Information	

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Component Information

Chemical name	Algae/aquatic plants	Fish	Crustacea
Sodium Silicate 1344-09-8		301 - 478: 96 h Lepomis macrochirus mg/L LC50 3185: 96 h Brachydanio rerio mg/L LC50 semi-static	



Part A: Pipe Patch Resin Part A

<u>Persistence/Degradability</u> Not determined.

Bioaccumulation There is no data for this product.

Mobility Not determined

Other Adverse Effects Not determined.

Section 13A - Disposal Consideration

Waste Treatment Methods

Disposal of Wastes Disposal should be in accordance with applicable

regional, national and local laws and regulations.

Contaminated Packaging Disposal should be in accordance with applicable

regional, national and local laws and regulations.

Section 14A – Transportation Information

Note Please see current shipping paper for most up to date

shipping information, including exemptions and special

circumstances.

DOT Not regulated

IATA Not regulated



Part A: Pipe Patch Resin Part A

Section 15A – Regulatory Information	

International Inventories

hemical name	TSCA	TSCA Inventory Status	DSL/NDSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Sodium Silicate	Χ	ACTIVE	Χ	X	Х	Х	Х	Х	Х

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

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).



Part A: Pipe Patch Resin Part A

SARA 313

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

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)

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations



Part B: Pipe Patch Resin Part B

Part B: SDS for Pipe Patch Resin Part B

Section 1B – Product Identifi	ication
Product Name: RIDGID Pipe Patch Resin Part B	

Section 2B – Hazards Identification _____

Appearance Dark brown liquid

Physical state Liquid

Odor Damp

Classification

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Respiratory sensitization	Category 1
Skin sensitization	Category 1
Carcinogenicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2



Part B: Pipe Patch Resin Part B

Signal Word Danger

Hazard statements Harmful if swallowed

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





<u>Precautionary Statements</u> - 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

Do not eat, drink or smoke when using this product

Use only outdoors or in a well-ventilated area

In case of inadequate ventilation wear respiratory

protection

Contaminated work clothing must not be allowed out of

the workplace

Wear protective gloves



Part B: Pipe Patch Resin Part B

Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response

If exposed or concerned: Get medical advice/attention

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

If eye irritation persists: Get medical advice/attention

IF ON SKIN: Wash with plenty of water and soap

Take off contaminated clothing and wash before reuse

If skin irritation or rash occurs: Get medical

advice/attention

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

If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Precautionary Statements

- Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed.

Precautionary Statements

- Disposal

Dispose of contents/container to an approved waste disposal plant.



Part B: Pipe Patch Resin Part B

Section 3B – Composition / Information On Ingredients _

Chemical name	CAS No	Weight-%
Methylenediphenyl diisocyanate isomers (Polymeric MDI)	9016-87-9	55-60
Tris (1-chloro-2-propyl) phosphate	13674-84-5	5-10

^{**}If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.**

Section 4B – First Aid Measures

Description of first aid measures

General Advice If exposed or concerned: Get medical advice/attention.

Eye Contact 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 Wash with plenty of soap and water. Take off

contaminated clothing and wash it before reuse. If skin

irritation or rash occurs: Get medical advice/attention.

Inhalation Remove victim to fresh air and keep at rest in a position

comfortable for breathing. If experiencing respiratory

symptoms: Call Poison Control or doctor/physician.

Ingestion Call a poison center or doctor/physician if you feel

unwell. Rinse mouth.



Part B: Pipe Patch Resin Part B

Most important symptoms and effects, both acute and delayed

Symptoms

Harmful if swallowed. 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.

<u>Indication of any immediate medical attention and special treatment needed</u>

Notes to Physician Treat symptomatically.

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Suitable Extinguishing Media

Foam, CO2 or dry powder. Water spray may be used if no other available and then in copious quantities.

Unsuitable Extinguishing High volume water jet. **Media**

Specific Hazards Arising from the Chemical

In the event of fire and/or explosion do not breathe fumes. Fire in vicinity poses risk of pressure build-up and rupture. Containers at risk from fire should be cooled with water and, if possible, removed from the danger area. Due to reaction with water producing CO2 gas, a hazardous build-up of pressure could result if contaminated containers are re-sealed. Containers may burst if overheated. Do not allow contaminated



Part B: Pipe Patch Resin Part B

extinguishing water to enter the soil, groundwater or surface waters.

Hazardous combustion products

Carbon dioxide, carbon monoxide, hydrogen cyanide, oxides. isocvanate vapors. nitrogen The substances/groups of substances mentioned can be released in case of fire.

Protective equipment and precautions for firefighters

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

Section 6B – Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions

Immediately contact emergency personnel. Evacuate the area. Keep upwind to avoid inhalation of vapors. Clean-up should only be performed by trained personnel. Keep unauthorized persons away. Remove not affected people. Inform the relevant emergency

services and authorities.

For

Responders

Emergency People dealing with major spillages should wear full protective clothing including respiratory protection. Use

suitable protective equipment.

Environmental precautions

Environmental precautions Do not allow contaminated extinguishing water to enter the soil, groundwater or surface waters. Avoid dispersal of spilt material and runoff and contact with drains and sewers. See Section 12 for additional Ecological Information.



Part B: Pipe Patch Resin Part B

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up Absorb spillages onto sand, earth or any suitable

adsorbent material. Leave to react for at least 30 minutes. Do not absorb onto sawdust or other combustible materials. Contaminated adsorbent material shall be disposed according to Section 13. Wash the

spillage area with water.

Section 7B – Handling And Storage

Precautions for safe handling

Advice on Safe Handling 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. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. In case of inadequate ventilation wear respiratory protection. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves. Do not breathe dust/fume/gas/mist/vapors/spray.

Conditions for safe storage, including any

Storage Conditions Store locked up. Store in a well-ventilated place. Keep

container tightly closed.

Incompatible Materials Water, acids, alkalis, alcohols, amines.



Part B: Pipe Patch Resin Part B

Section 8B – Exposure Controls / Personal Protection

Exposure Guidelines

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Appropriate engineering controls

Engineering Controls Showers. Eyewash stations. Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses with side-shields (frame goggles).

Skin and Body Protection Safety shoes and closed workwear. Chemical resistant

protective gloves.

Respiratory Protection Respiratory protection in case of vapor/aerosol release.

Combination filter for organic, inorganic, acid inorganic,

and basic gases/vapors.

General Hygiene

Do not breathe vapor/spray. With products freshly **Considerations** manufactured from isocyanates body protection and chemical resistant protective gloves is recommended. Wearing of closed workwear is required additionally to the personal protective equipment. No eating, drinking, smoking or tobacco use at the place of work. Take off immediately all contaminated clothing. Hands and/or face should be washed before breaks and at the end of the shift. After work the skin should be cleaned, and skin-

care agents applied.



Part B: Pipe Patch Resin Part B

Section 9B – Physical And Chemical Properties

Information on basic physical and chemical properties

Physical state Liquid

Appearance Dark brown liquid

Color Dark brown

Odor Damp

Odor Threshold Not determined

<u>Property</u> <u>Values</u>

pH Not determinedMelting point / freezing point Not determined

Boiling point / boiling range >200 °C / >392 °F

Flash point >200 °C / >392 °F

Evaporation Rate Not determined

Flammability (Solid, Gas) Liquid-Not applicable

Flammability Limit in Air

Upper flammability or explosive limits Not determined

Lower flammability or explosive limits Not determined

Vapor Pressure <0.00001 mbar (20DEGC/68DEGF)

Vapor Density Not determined

Relative Density 1.24 +/- 0.02 g/cm3 (25DEGC/77DEGF)

Water Solubility Reacts with water with slow CO2

appearance at the border area into nonsoluble, high melting point or not melting

polyurea

Solubility in other solvents Not determined

Partition Coefficient Not determined



Part B: Pipe Patch Resin Part B

Autoignition temperatureNot determinedDecomposition temperatureNot determinedKinematic viscosityNot determined

Dynamic Viscosity 190-250 mPas (25DEGC/77DEGF)

Explosive PropertiesNot determinedOxidizing PropertiesNot determined

Section 10B – Stability And Reactivity

Reactivity

Reacts with water, acids, alcohols, amines, bases, and oxidants.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

Reaction is slow with cold or warm water (< 50 °C), with hot water or steam the reaction is faster, producing carbon dioxide causing pressure increase. Acids, alcohols, amines, bases, and oxidants may cause fire and explosion hazard.

Conditions to Avoid

High temperature, moisture, strong light.

Incompatible materials

Water, acids, alkalis, alcohols, amines.

Hazardous decomposition products

None known based on information supplied.



Part B: Pipe Patch Resin Part B

Section 11B – Toxicological Information

Information on likely routes of exposure

Product Information

Skin ContactAvoid contact with eyes.

Avoid contact with skin.

InhalationHarmful if inhaled.IngestionHarmful if swallowed.

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Methylenediphenyl diisocyanate isomers (Polymeric MDI) 9016-87-9	= 49 g/kg (Rat)	> 9.4 g/kg (Rabbit)	= 490 mg/m3 (Rat) 4 h
Tris (1-chloro-2-propyl) phosphate 13674-84-5	= 1500 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	> 5.05 mg/L (Rat) 4 h

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Please see section 4 of this SDS for symptoms.

<u>Delayed and immediate effects as well as chronic effects from short and long-term exposure</u>

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye Causes serious eye irritation.

irritation

Sensitization May cause allergy or asthma symptoms or breathing

difficulties if inhaled. May cause an allergic skin

reaction.

Carcinogenicity Suspected of causing cancer.



Part B: Pipe Patch Resin Part B

Chemical name	ACGIH	IARC	NTP	OSHA
Methylenediphenyl diisocyanate isomers (Polymeric MDI) 9016-87-9		Group 3		

Legend:

IARC - International Agency for Research on Cancer

Group 3 IARC components are "not classifiable as human carcinogens"

STOT - single exposure May cause respiratory irritation.

STOT - repeated exposure May cause damage to organs through prolonged or

repeated exposure.

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

Oral LD50 2,000 mg/kg

Dermal LD50 11,940.90 mg/kg

ATEmix (inhalation- 5.0 mg/L

dust/mist)

Section 12B – Ecological Information	

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.



Part B: Pipe Patch Resin Part B

Component Information

Chemical name	Algae/aquatic plants	Fish	Crustacea
Tris (1-chloro-2-propyl) phosphate 13674-84-5	4: 96 h Pseudokirchneriella subcapitata mg/L EC50 45: 72 h Desmodesmus subspicatus mg/L EC50	30: 96 h Poecilia reticulata mg/L LC50 static 56.2: 96 h Brachydanio rerio mg/L LC50 static 98: 96 h Pimephales promelas mg/L LC50 static	63: 48 h Daphnia magna mg/L EC50

<u>Persistence/Degradability</u> Not determined.

<u>Bioaccumulation</u> There is no data for this product.

Mobility

Chemical name	Partition coefficient
Tris (1-chloro-2-propyl) phosphate	2.59
13674-84-5	

Other Adverse Effects

Not determined



Part B: Pipe Patch Resin Part B

	Part b: Pipe Patch Resin Part b							
Section 13B – Disposal Consideration								
Waste Treatment Methods								
Disposal of Wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.							
Contaminated Packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations.							
Section 1	I4B – Transportation Information							
<u>Note</u>	Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.							
DOT	Not regulated							
<u>IATA</u>	Not regulated							
<u>IMDG</u>	Not regulated							

International Inventories

Chemical name	TSCA	TSCA Inventory Status	DSL/ NDSL	EINECS/ ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Methylenediph enyl diisocyanate isomers	Х	ACTIVE	Х		Х	Х	Х	Х	Х

Section 15B – Regulatory Information _____



Part B: Pipe Patch Resin Part B

(Polymeric MDI)									
Tris (1-chloro- 2-propyl) phosphate	Х	ACTIVE	Х	Х	Х	Х	Х	Х	Х
4,4'- Methylenediph enyl diisocyanate, oligomeric reaction products with 2,4'- diisocyanatodi phenylmethan e, 2,2'- methylenediph enyl diisocyanate and α-hydro- ω-hydroxypoly [oxy(methyl- 1,2- ethanediyl)]				X					

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 C 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



Part B: Pipe Patch Resin Part B

US Federal Regulations

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).

SARA 313

Chemical name	CAS No	Weight-%	SARA 313 - Threshold Values %
Methylenediphenyl diisocyanate isomers (Polymeric MDI) - 9016-87-9		55-60	1.0

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)

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.



Part B: Pipe Patch Resin Part B

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Methylenediphenyl diisocyanate isomers (Polymeric MDI)	X		
9016-87-9			



Section 16 – Other Information

Prepared by: Ridge Tool Company

Operating Standard. 6-429, Rev. A Engineering Change. ECN001483 Issue Date: June 27, 2022

Last Revision Date: NA

RIDGE TOOL BELIEVES THE STATEMENTS, TECHNICAL INFORMATION AND RECOM-MENDATIONS CONTAINED HEREIN ARE RELIABLE BUT THEY ARE GIVEN WITHOUT WARRANTY OR GUARANTEE OF ANY KIND, EXPRESSED OR IMPLIED, AND WE ASSUME NO RESPONSIBILITY FOR ANY LOSS, DAMAGE OR EXPENSE, DIRECT OR CONSEQUENTIAL, ARISING OUT OF THEIR USE.



NFPA

Health HazardsNot determinedFlammabilityNot determinedInstabilityNot determinedSpecial HazardsNot determined

HMIS

Health HazardsNot determinedFlammabilityNot determinedPhysical hazardsNot determinedPersonal ProtectionNot determined