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SAFETY DATA SHEET

SECTION 1 - Identification

1.1 Product Identifier

Product Name • Rely® T-32 B

Synonyms • Tirefill, B-Side

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Recommended Use • Component of Polyurethane

1.3 Details of the Supplier of the Safety Data Sheet

Manufacturer • Carpenter Co.
5016 Monument Ave.
Richmond, Virginia 23230
(804) 233-0606

1.4 Emergency Telephone

Chemtrec • (800) 424-9300 (24-hr number)

SECTION 2 - Hazards Identification

2.1 Classification of the Substance or Mixture

Classification in accordance with 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200):

Carcinogenicity Category 1B – H350

Skin Sensitizer Category 1B – H317

Skin Irritation Category 2 – H315

Reproductive Toxicity Category 1B – H360

Germ Cell Mutagenicity Category 2 – H341

Specific Target Organ Toxicity Repeated Exposure Category 2 – H373

2.2 GHS Label Elements

Hazard Pictogram



Signal Word

DANGER

Hazard Statements

H350 – May cause cancer.
H317 – May cause an allergic skin reaction.
H315 – Causes skin irritation.
H360 – May damage fertility or the unborn child.
H341 – Suspected of causing genetic defects.
H373 – May cause damage to organs through prolonged or repeated exposure (blood system, liver, thymus).

Precautionary Statements

Prevention	<p>P201 + P202 – Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.</p> <p>P260 – Do not breathe dust, fume, gas, mist, vapors or spray.</p> <p>P264 - Wash thoroughly after handling.</p> <p>P272 - Contaminated clothes should not be allowed out the workplace.</p> <p>P270 - Do not eat, drink or smoke when using this product.</p> <p>P280 - Wear protective gloves/protective clothing/eye protection/face protection.</p>
Response	<p>P308+P313 – IF exposed or concerned: Get medical attention.</p> <p>P302+P350 - IF ON SKIN: Gently wash with plenty of soap and water.</p> <p>P333+P313 - If skin irritation or rash occurs: Get medical attention.</p> <p>P362+P364 – Take off contaminated clothing and wash it before reuse.</p>
Storage/Disposal	<p>P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.</p> <p>P405 – Store locked up.</p> <p>P403+P233 - Store in a well-ventilated place. Keep container tightly closed.</p>

2.3 Hazards Not Otherwise Classified

- May cause slight eye irritation.
- Contains aromatic oils that may be absorbed through the skin.
- Repeated prolonged skin contact may lead to serious toxic effects.
- Refer to Section 11 toxicological information for additional toxicity information.
- Refer to Section 16 Other Information for HMIS and NFPA Codes.

SECTION 3 - Composition/Information on Ingredients

3.1 Substance

Material does not meet the criteria of a substance according to United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

3.2 Mixtures

Name	Identifier	% (weight)
Distillates (petroleum), catalytic reformer fractionator residue, intermediate-boiling	CAS# 68477-30-5	55-65
m-Phenylenediamine	CAS# 108-45-2	0.5-2
Dibutyltin Dilaurate	CAS# 77-58-7	0.1-1

The exact percentages of the component(s) have been withheld as a trade secret.

SECTION 4 - First Aid Measures

4.1 Description of First Aid Measures

- | | |
|----------------------------|--|
| By route of inhalation | • Remove victim to fresh air. |
| By route of dermal contact | • Remove contaminated clothing and shoes. Wash thoroughly with soap and water. Seek medical attention if skin irritation or rash develops. |
| By route of eye contact | • Flush with plenty of water for 15 minutes. If irritation develops and persists, seek medical attention. |
| By route of ingestion | • Rinse mouth. Do not induce vomiting. Seek medical attention. |

4.2 Most Important Symptoms and Effects, Acute and Chronic

Refer to Section 11 Toxicological Information.

4.3 Indication of Immediate Medical Attention and Special Treatment If Needed

Treat symptomatically.

SECTION 5 - Firefighting Measures

5.1 Extinguishing Media

- | | |
|--------------------------------|--|
| Suitable Extinguishing Media | • Dry chemical, foam, carbon dioxide, water fog or fine spray. |
| Unsuitable Extinguishing Media | • Do not use direct water spray. May spread fire. |

5.2 Special Hazards Arising From the Substance or Mixture

- Fire may produce irritating toxic fumes and gases including oxides of carbon, nitrogen, and sulfur.

5.3 Special Protective Actions for Firefighters

- Responding personnel must wear positive-pressure, self-contained breathing apparatus (SCBA) and protective firefighting clothing.

SECTION 6 - Accidental Release Measures

6.1. Personal Precautions, Protective Equipment, and Emergency Procedures

Avoid any skin contact. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Don protective equipment appropriate for the size of the spill. Keep unauthorized personnel away. Stay upwind. Do not touch or walk through spilled material. Spilled material may be slippery. Ensure adequate ventilation and eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do it without risk.

6.2 Environmental Precautions

- Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. If required, notify the proper authorities.

6.3 Methods and Materials for Containment and Clean Up

Methods	<ul style="list-style-type: none"> • Stop leak and dam spill • Cover spill with an inert absorbent • Transfer waste into a suitable container for proper disposal • Large Spills: Dike far ahead of spill to contain the material.
Materials	<ul style="list-style-type: none"> • Inert absorbent (sand, earth or similar) • Use appropriate Personal Protective Equipment (PPE).

6.4 Reference to Other Sections

- Refer to Section 8 for exposure control and personal protective equipment information.
- Refer to Section 12 for ecological information.

SECTION 7: Handling and Storage

7.1 Precautions for Safe Handling

- Do not handle until all safety precautions have been read and understood.
- Do not breathe vapors or mist.
- Do not use in areas without adequate ventilation.
- Keep containers tightly closed when not in use.
- Avoid contact with eyes, skin and clothing.
- Do not eat, drink, or smoke while using this product.
- Use good safety and industrial hygiene practices.

7.2 Conditions for Safe Storage, Including any Incompatibilities

Storage	<ul style="list-style-type: none"> • Store materials in a cool, dry well ventilated place. Do not transport with oxidizers. Store in tightly closed containers.
Incompatibilities	<ul style="list-style-type: none"> •Oxidizing agents.

SECTION 8: Exposure Controls/ Personal Protection

8.1 Control Parameters

Exposure Limits/Guidelines

	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Petroleum Hydrocarbon	5 mg/mg ³ TWA	5 mg/m ³ , Inhalable fraction
m-Phenylenediamine	Not Established	0.1 mg/m ³ TWA
Dibutyltin Dilaurate (as Sn)	0.1 mg/m ³ TWA,	0.1 mg/m ³ TWA, SKIN 0.2 mg/m ³ STEL

8.2 Exposure Controls

Engineering Controls	<ul style="list-style-type: none"> • Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.
Eye/Face Protection	<ul style="list-style-type: none"> • Safety glasses with side shields for incidental use. Depending on the splash risk, chemical goggles, or chemical goggles with a face shield may be needed.
Respiratory Protection	<ul style="list-style-type: none"> • If exposure concentrations may exceed applicable exposure limits or are unknown,, use an appropriate NIOSH/MSHA approved respirator. Respirators should be selected in accordance with OSHA 1910.134.
Skin Protection	<ul style="list-style-type: none"> • Use chemical resistant gloves and suitable working clothes to avoid skin contact. Choose chemical resistant gloves appropriate for the intended use. Consult glove manufacturers for assistance in choosing appropriate gloves.
Environmental Exposure Controls	<ul style="list-style-type: none"> • No data available.
Additional Protection Measures	<ul style="list-style-type: none"> • Use near eyewash station and safety shower.

SECTION 9: Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	• Liquid	Odor	• Petroleum odor
Appearance/Color	• Brown	Odor Threshold	• No data available
General Properties			
Boiling Point	• No data available	Melting Point	• No data available
Decomposition Temperature	• No data available	pH	• No data available
Density	• No data available	Water Solubility	• Low
Solvent Solubility	• No data available	Viscosity	• No data available
Explosive Properties	• No data available	Specific Gravity/Relative Density	• 1.02-1.05 (H ₂ O=1)
Volatility			
Vapor Pressure	• No data available	Vapor Density	• No data available
Evaporation Rate	• No data available	VOC (Vol.)	• No data available
Volatiles (Vol.)	• No data available		
Flammability			
Flash Point	• >200°F (PMCC)	LEL	• No data available
UEL	• No data available	Flammability (solid, gas)	• No data available
Auto-ignition Temperature	• No data available		
Environmental			
Octanol/Water Partition Coefficient	• No data available		

9.2. Other Information

No additional information available

SECTION 10: Stability and Reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical Stability

Stable under normal temperatures and pressures.

10.3 Possibility of Hazardous Reactions

No data available.

10.4 Conditions to Avoid

Elevated temperatures.

10.5 Incompatible Materials

Oxidizing agents.

10.6 Hazardous Decomposition Products

No hazardous decomposition products if handled and stored as recommended. At high temperatures: carbon monoxide, carbon dioxide, oxides of tin may be formed.

SECTION 11: Toxicological Information

11.1 Information on Toxicological Effects

Most likely routes of exposure include inhalation, skin and ingestion.

Acute Toxicity

<u>Chemical</u>	<u>LD50 oral rat</u>	<u>LD50 dermal rabbit</u>	<u>LC50 inhalation rat</u>
Distillates (petroleum)	>5000 mg/kg	>2000 mg/kg	>1.502 mg/L, ATE dust and mist
m-Phenylenediamine	204 mg/kg	1100 mg/kg	3.2 mg/L, 4hr
Dibutyltin Dilaurate	45 mg/kg	630 mg/kg	NA

Skin Corrosion/Irritation

- Skin Irritation Category 2 – Causes skin irritation.

Serious Eye Damage/Irritation

- Based on available information, eye damage/irritation classification criteria are not met. Exposure to vapors exceeding the guidelines may cause eye irritation.

Respiratory or Skin Sensitization

- Skin Sensitizer 1B – May cause allergic skin reaction.

Germ Cell Mutagenicity

- Germ Cell Mutagenicity Category 2 – Suspected of causing genetic defects.
- Classification based on m-Phenylenediamine.

Carcinogenicity

- GHS Carcinogenicity category 1B – May cause cancer.

Petroleum Hydrocarbon is listed by IARC as group 2B Possible Carcinogenic to Humans. Lifetime mouse skin painting studies with heavy distillate aromatic extracts have produced tumors after prolonged and repeated skin contact.

Reproductive Toxicity

- Reproductive Toxicity Category 1B - May damage fertility or the unborn child.

Repeated dermal application of petroleum hydrocarbons to rats resulted in maternal and fetal toxicity (OECD Guideline 414)

Dibutyltin dilaurate (Rats: oral route of exposure) OECD Guideline 421.

Specific Target Organ Toxicity Single Exposure (STOT-SE)

- Not classified.

Specific Target Organ Toxicity Repeated Exposure (STOT-RE)

- Specific Target Organ Toxicity Repeated Exposure Category 2. May cause damage to organs (blood system, liver, thymus) through prolonged or repeated exposure.

Petroleum hydrocarbon (OECD Guideline 411)

Aspiration Hazard

- No data available

11.2 Potential Health Effects

Inhalation

- | | |
|---------|--|
| Acute | • Can cause irritation to the respiratory system if inhaled. |
| Chronic | • None known. |

Skin

- | | |
|---------|--|
| Acute | • Can cause irritation. |
| Chronic | • Prolonged or repeated skin contact may lead to sensitization reaction.
• Contains aromatic oils that may be absorbed through skin and lead to serious toxic effects |

Eye

- | | |
|---------|--|
| Acute | • May cause slight to moderate irritation. |
| Chronic | • None known. |

Ingestion

- | | |
|---------|--|
| Acute | • Small amounts swallowed may cause gastrointestinal discomfort. |
| Chronic | • None known. |

SECTION 12: Ecological Information

12.1 Ecotoxicity

No data available

12.2 Persistence and Degradability

No data available

12.3 Bioaccumulative Potential

No data available

12.4 Mobility in Soil

No data available

12.5 Other Adverse Effects

No data available

SECTION 13: Disposal Considerations

13.1 Waste Disposal Method

Product Waste

- Do not dump into any sewers, on the ground, or into any body of water.
- All disposal methods must be in compliance with Federal, State/Provincial, and local regulations.

Packaging Waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

SECTION 14: Transport Information

U.S. DOT

Not regulated as hazardous for shipment.

IMDG

UN3082, Environmentally hazardous substance, liquid, n.o.s., 9, III, MARINE POLLUTANT (Extracts (petroleum), heavy paraffinic distillate solvent)

SECTION 15: Regulatory Information

15.1 Regulatory Status

CERCLA Hazardous Substances (40 CFR 302): None reportable.

SARA 311/312:

Petroleum hydrocarbon	Acute health hazard. Chronic health hazard.
m-Phenylenediamine	Acute health hazard. Chronic health hazard.
Dibutyltin Dilaurate	Acute health hazard. Chronic health hazard.

SARA 313:

1,3 - Phenylenediamine	CAS# 108-45-2
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15.2 US State Regulations

⚠️ WARNING: This product can expose you to chemicals including Polycyclic aromatic compounds, which is known to the State of California to cause cancer. For more information go to www.P65Warning.ca.gov

15.3 Canadian Regulations

DSL: All components of this product are listed on, or exempt from the DSL.

15.4 International Inventories*

United States: All components of this product are listed on the TSCA inventory.

*=Although a chemical may be listed on a country's inventory, it may not indicate a hazard or regulatory control for use.

SECTION 16: Other Information

16.1 HMIS and NFPA RATINGS

HMIS Classifications

Health: 2*

Flammability: 1

Reactivity: 0

NFPA Ratings

Health: 2

Flammability: 1

Instability: 0

Special: None

16.2 EU CLP Relevant Phrases

Available on request

16.3 Preparation By

I.H. Department

16.4 Preparation Date

August 11, 2014

16.5 Last Revision Date

August 9, 2018 - Section 14, 15

16.6 Disclaimer/Statement of Liability

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