# Safety Data Sheet

**Issue Date:** 19-DEC-2022 **Revision Date:** 19-DEC-2022 **Version** 1

## 1. IDENTIFICATION

**Product Identifier**

**Product Name** Chemical Vulcanizing Fluid

Chemical Vulcanizing Fluid Fast Dry

**Other means of identification**

**SDS #** BPN-004

**Product Code** Catalog Numbers: 91-701, 91-702, 91-703

**UN/ID No** UN1133

**Recommended use of the chemical and restrictions on use**

**Recommended Use** Rubber adhesive.

**Details of the supplier of the safety data sheet**

**Supplier Address**

Best Patch North America
444 E. North Street
Morristown, IN 46161
765-763-7777

**Emergency Telephone Number**

**Emergency Telephone (24 hr)** INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

**Appearance** High viscosity liquid, cloudy **Physical state** Liquid **Odor** Petrolic **Classification**

| | |
|---|---|
| Skin corrosion/irritation | Category 2 |
| Serious eye damage/eye irritation | Category 2 |
| Skin sensitization | Category 1 |
| Germ cell mutagenicity | Category 2 |
| Carcinogenicity | Category 1A |
| Specific target organ toxicity (single exposure) | Category 3 |
| Aspiration toxicity | Category 1 |
| Flammable Liquids | Category 2 |

**Hazards Not Otherwise Classified (HNOC)**

- May be harmful in contact with skin

**Signal Word**
**Danger**

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BPN-004 Chemical Vulcanizing Fluid

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Chemical Vulcanizing Fluid Fast Dry

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**Hazard statements**
Causes skin irritation
Causes serious eye irritation
May cause an allergic skin reaction
Suspected of causing genetic defects
May cause cancer
May cause drowsiness or dizziness
May be fatal if swallowed and enters airways
Highly flammable liquid and vapor

**Precautionary Statements - Prevention**
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing must not be allowed out of the workplace
Use only outdoors or in a well-ventilated area
Keep away from heat/sparks/open flames/hot surfaces. — No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Keep cool
Wear protective gloves/protective clothing/eye protection/face protection

**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 (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower If skin irritation or rash occurs: Get medical advice/attention
Wash contaminated clothing before reuse
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
Do not induce vomiting
IN CASE OF FIRE: Use CO2, dry chemical, or foam for extinction

**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

**Other hazards**
Very toxic to aquatic life with long lasting effects



## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS No. | Weight-% |
|---|---|---|
| N-Heptane | 142-82-5 | 85-95 |
| Trichloroethylene | 79-01-6 | 5-15 |
| Zinc dibutyldithiocarbamate | 136-23-2 | 0-2 |

**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.**

## 4. FIRST-AID MEASURES

**First Aid Measures**

**General Advice** Provide this SDS to medical personnel for treatment.

**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** Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If symptoms persist, call a physician.

**Ingestion** Do not induce vomiting. Immediately call a poison center or doctor/physician. **Most important symptoms and effects**

**Symptoms** Causes skin irritation. May be harmful in contact with skin. May cause an allergic skin reaction. Causes serious eye irritation. May cause pulmonary edema. May cause drowsiness or dizziness. Possible symptoms are irritation of the mucous membranes, dry cough and respiratory difficulty. Other symptoms may include dizziness, headache, nausea, and loss of coordination.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician** Treat symptomatically. Aspiration of material into the lungs due to vomiting can cause chemical pneumonitis which can be fatal. Epinephrine and other sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to high concentrations of hydrocarbon solvents. The use of other drugs with less arrhythmogenic potential should be considered. If sympathomimetic drugs are administered, observe for the development of cardiac arrhythmias.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**
Water spray (fog). Alcohol resistant foam. Dry chemical. Carbon dioxide (CO2).

**Unsuitable Extinguishing Media** Do not use solid water streams.

**Specific Hazards Arising from the Chemical**
Highly flammable liquid and vapor. The liquid vapor may settle into low areas or may travel along the ground or surface to ignition sources where they might ignite or explode. Flash back possible over considerable distance.



**Hazardous Combustion Products** Carbon monoxide. Carbon dioxide (CO2).

**Explosion Data**
**Sensitivity to Static Discharge** Take precautionary measures against static discharge.

**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. Use water spray to keep fire-exposed containers cool. Fight fire remotely due to the risk of explosion.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Wear protective clothing as described in Section 8 of this safety data sheet. Evacuate personnel to safe areas. Remove all sources of ignition. Ensure adequate ventilation. Avoid breathing vapors or mists.

**Environmental precautions**

**Environmental precautions** Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. 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. Prevent evaporation by covering with foam. Soak up and contain spill with an inert (i.e. vermiculite, dry sand or earth) absorbent material.

**Methods for Clean-Up** Use only non-sparking tools. Place in properly labeled, sealed, non-leaking containers. Dispose of contents/container via a licensed waste disposal contractor. For waste disposal, see section 13 of the SDS.

## 7. 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. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing must not be allowed out of the workplace. Use only outdoors or in a well-ventilated area. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Ground/bond container and receiving equipment. Use spark-proof tools and explosion-proof equipment. Take precautionary measures against static discharges. Keep cool. Wear protective gloves/protective clothing and eye/face protection.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a cool, well-ventilated place. Store locked up. Heat sensitive-store under inert gas.

**Incompatible Materials** Strong oxidizing agents.



## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines**

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---|---|---|---|
| N-Heptane<br>142-82-5 | STEL: 500 ppm<br>TWA: 400 ppm | TWA: 500 ppm<br>TWA: 2000 mg/m$^3$<br>(vacated) TWA: 400 ppm<br>(vacated) TWA: 1600 mg/m$^3$ (vacated) STEL: 500 ppm (vacated)<br>STEL: 2000 mg/m$^3$ | IDLH: 750 ppm<br>Ceiling: 440 ppm 15 min<br>Ceiling: 1800 mg/m$^3$ 15 min TWA: 85 ppm<br>TWA: 350 mg/m$^3$ |

| | | | |
|---|---|---|---|
| Trichloroethylene<br>79-01-6 | STEL: 25 ppm<br>TWA: 10 ppm | TWA: 100 ppm<br>(vacated) TWA: 50 ppm<br>(vacated) TWA: 270 mg/m³ (vacated) STEL: 200 ppm (vacated)<br>STEL: 1080 mg/m³<br>Ceiling: 200 ppm | IDLH: 1000 ppm |

**Appropriate engineering controls**

**Engineering Controls** Apply technical measures to comply with the occupational exposure limits. Showers Eyewash stations
Ventilation systems. Explosion-proof general and local exhaust ventilation.

**Individual protection measures, such as personal protective equipment**

**Eye/Face Protection** Wear goggles or chemical safety glasses. Refer to 29 CFR 1910.133 for eye and face protection regulations.

**Skin and Body Protection** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Refer to 29 CFR 1910.138 for appropriate skin and body protection.

**Respiratory Protection** If necessary, wear a MSHA/NIOSH-approved respirator. Refer to 29 CFR 1910.134 for respiratory protection requirements.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

**Physical state** Liquid
**Appearance** High viscosity liquid, cloudy **Odor** Petrolic **Color** Clear Colorless Cloudy **Odor Threshold** Not determined

**Property Values Remarks • Method** **pH** Not determined
**Melting Point/Freezing Point** -90.0 to -90.1 °C / -131.7 to -130.3 °F
**Boiling Point/Boiling Range** 98.1 to 98.7 °C 208.5 to 209.6 °F



**Flash Point** -4.0 °C / 24.8 °F
**Evaporation Rate** 4 (butyl acetate = 1)

**Flammability (Solid, Gas)** Not determined
**Flammability Limits In Air** Not applicable

**Upper Flammability Limits** 7%
**Lower Flammability Limit** 1.1%
**Vapor Pressure** 110.7 hPa (83.0 mmHg) at 37.7 °C (99.9°F) , 53.3 hPa (40.0 mmHg) at 20.0 °C (68.0°F)
**Vapor Density** 3.30 (Air=1)
**Relative Density** 0.684 g/mL at 25°C (77°F)
**Water Solubility** Not determined
**Solubility in other solvents** Insoluble
**Partition Coefficient** log Pow > 3.000
**Auto-ignition Temperature** 223.0 °C / 433.4 °F
**Decomposition Temperature** Not determined
**Kinematic Viscosity** Not determined
**Dynamic Viscosity** Not determined
**Explosive Properties** Not determined
**Oxidizing Properties** Not determined

**Other Information**

**Molecular weight** 100.2 g/mol
**VOC Content (%)** N/A

## 10. 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**
Heat, flames and sparks.

**Incompatible Materials**
Strong oxidizing agents.

**Hazardous Decomposition Products**
None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

**Product Information**

**Eye Contact** Causes serious eye irritation.

**Skin Contact** Causes skin irritation. May be harmful in contact with skin.

**Inhalation** May cause drowsiness or dizziness. May cause irritation to the mucous membranes and upper respiratory tract.

**Ingestion** May cause gastrointestinal irritation, nausea, diarrhea, and vomiting.

**Component Information**

| Chemical Name | ATEmix (oral) | ATEmix (dermal) | Inhalation LC50 |
|---|---|---|---|
| N-Heptane<br>142-82-5 | - | = 3000 mg/kg ( Rabbit ) | = 103 g/m$^3$ ( Rat ) 4 h |
| Trichloroethylene<br>79-01-6 | = 4920 mg/kg ( Rat ) = 4290 mg/kg ( Rat ) | = 29000 mg/kg ( Rabbit ) > 20 g/kg ( Rabbit ) | = 26 mg/L ( Rat ) 4 h |

**Information on physical, chemical and toxicological effects**

**Symptoms** Please see section 4 of this SDS for symptoms.

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

**Sensitization** May cause an allergic skin reaction.

**Germ cell mutagenicity** Suspected of causing genetic defects.

**Carcinogenicity** May cause cancer.

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|---|---|---|---|---|
| Trichloroethylene<br>79-01-6 | A2 | Group 1 | Reasonably Anticipated | X |

**Legend**

*ACGIH (American Conference of Governmental Industrial Hygienists)*
*A2 - Suspected Human Carcinogen*
*IARC (International Agency for Research on Cancer)*
*Group 1 - Carcinogenic to Humans*
*NTP (National Toxicology Program)*
*Reasonably Anticipeted - Reasonably Anticipated to be a Human Carcinogen*
*OSHA (Occupational Safety and Health Administration of the US Department of Labor)*
*X - Present*

**STOT - single exposure** May cause drowsiness or dizziness.

**Aspiration hazard** May be fatal if swallowed and enters airways.

**Numerical measures of toxicity**

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

**ATEmix (oral)** 28,600.00 mg/kg
**ATEmix (dermal)** 3,085.00 mg/kg
**ATEmix (inhalation-dust/mist)** 67.00 mg/L

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Very toxic to aquatic life with long lasting effects.

**Component Information**

| Chemical Name | Algae/aquatic plants | Fish | Crustacea |
|---|---|---|---|



| | | | |
|---|---|---|---|
| N-Heptane 142-82-5 | | 375.0: 96 h Cichlid fish mg/L LC50 | 10: 24 h Daphnia magna mg/L EC50 |
| Trichloroethylene 79-01-6 | 175: 96 h Pseudokirchneriella subcapitata mg/L EC50 450: 96 h Desmodesmus subspicatus mg/L EC50 | 31.4 - 71.8: 96 h Pimephales promelas mg/L LC50 flow-through 39 - 54: 96 h Lepomis macrochirus mg/L LC50 static | 2.2: 48 h Daphnia magna mg/L EC50 |
| Zinc dibutyldithiocarbamate 136-23-2 | | 520: 96 h Oncorhynchus mykiss mg/L LC50 880: 96 h Lepomis macrochirus mg/L LC50 | 0.74: 48 h Daphnia magna mg/L EC50 |

**Persistence/Degradability**
Not determined.

**Bioaccumulation**
Not determined.

**Mobility**

| Chemical Name | Partition Coefficient |
|---|---|
| N-Heptane 142-82-5 | 4.66 |
| Trichloroethylene 79-01-6 | 2.29 |

**Other Adverse Effects**
Not determined

## 13. DISPOSAL CONSIDERATIONS

**Waste Treatment Methods**

**Disposal of Wastes** Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

**Contaminated Packaging** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**US EPA Waste Number**

| Chemical Name | RCRA | RCRA - Basis for Listing | RCRA - D Series Wastes | RCRA - U Series Wastes |
|---|---|---|---|---|
| Trichloroethylene 79-01-6 | U228 | Included in waste streams: F001, F002, F024, F025, F039, K018, K019, K020 | 0.5 mg/L regulatory level | U228 |

| Chemical Name | RCRA - Halogenated Organic Compounds | RCRA - P Series Wastes | RCRA - F Series Wastes | RCRA - K Series Wastes |
|---|---|---|---|---|
| Trichloroethylene 79-01-6 | Category I - Volatiles | | Toxic waste waste number F025 Waste description: Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those | |





| | | | | |
|---|---|---|---|---|
| | | | having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution. | |

**California Hazardous Waste Status**

| Chemical Name | California Hazardous Waste Status |
|---|---|
| N-Heptane 142-82-5 | Toxic Ignitable |
| Trichloroethylene 79-01-6 | Toxic |

| | |
|---|---|
| Zinc dibutyldithiocarbamate<br>136-23-2 | Toxic |

## 14. TRANSPORT INFORMATION

**Note** Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT**

**UN/ID No** UN1133
**Proper Shipping Name** Adhesives
**Hazard Class** 3
**Packing Group** II

**IATA**

**UN/ID No** UN1133
**Proper Shipping Name** Adhesives
**Hazard Class** 3
**Packing Group** II

**IMDG**

**UN/ID No** UN1133
**Proper Shipping Name** Adhesives
**Hazard Class** 3
**Packing Group** II
**Marine Pollutant** Yes

## 15. REGULATORY INFORMATION

**International Inventories**

| Chemical Name | TSCA | D | LINCS | ENCS | IECSC | KECL | PICCS | AICS |
|---|---|---|---|---|---|---|---|---|
| N-Heptane | X | X | X | Present | X | Present | X | X |
| Trichloroethylene | X | X | X | Present | X | Present | X | X |
| Zinc dibutyldithiocarbamate | X | X | X | Present | X | Present | X | 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 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, 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) |
|---|---|---|---|
| Trichloroethylene<br>79-01-6 | 100 lb 1 lb | | RQ 100 lb final RQ<br>RQ 45.4 kg final RQ RQ 1 lb final RQ<br>RQ 0.454 kg final RQ |

### 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 | CAS No. | Weight-% | SARA 313 - Threshold Values % |
|---|---|---|---|
| Trichloroethylene - 79-01-6 | 79-01-6 | 5-15 | 0.1 |
| Zinc dibutyldithiocarbamate - 136-23-2 | 136-23-2 | 0-2 | 1.0 |

### 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 | | tants CWA - Priority | CWA - Hazardous Substances |
|---|---|---|---|---|
| Trichloroethylene | 100 lb | X | X | X |
| Zinc dibutyldithiocarbamate | | X | | |

## US State Regulations

### California Proposition 65

This product contains the following Proposition 65 chemicals.

| Chemical Name | California Proposition 65 |
|---|---|
| Trichloroethylene - 79-01-6 | Carcinogen<br>Developmental<br>Male Reproductive |

U.S. State Right-to-Know Regulations

| Chemical Name | New Jersey | Massachusetts | Pennsylvania |
|---|---|---|---|
| N-Heptane<br>142-82-5 | X | X | X |
| Trichloroethylene | X | X | X |





| | | | |
|---|---|---|---|
| 79-01-6 | | | |
| Zinc<br>dibutyldithiocarbamate<br>136-23-2 | X | | X |

## 16. OTHER INFORMATION

NFPA Health Hazards 1
HMIS Health Hazards 1
Flammability 3

Flammability 3
Instability
0

Physical hazards 0
Special Hazards Not determined

Personal Protection Not determined

**Issue Date:** 06-Jun-2016
**Revision Date:** 09-Jun-2016
**Revision Note:** New format

**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**