SAFETY DATA SHEET

Issuing Date 21-Jun-2018 **Revision Date** 21-Jun-2018 **Revision Number** 1

This document complies with the US OSHA Hazard Communication Standard (29 CFR 1910.1200), Canada WHMIS 2015 which includes the amended Hazardous Products Act (HPA) and the Hazardous Products Regulation (HPR), and Mexico's NMX-R-019-SC-2011.

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

GHS product identifier

Product Name **VP-1**

Other means of identification

Product Code(s) **VP-1**

UN-Number UN1133

Synonyms VP-1 PATCH KIT

Recommended use of the chemical and restrictions on use

Recommended Use Patching butyl rubber bicycle innertubes

Uses advised against No information available

Supplier's details

Supplier Address
Park Tool Company
5115 Hadley Avenue N
St Paul, MN 55128
651-777-6868

Emergency telephone number

Emergency Telephone Number CHEMTREC: 1-800-424-9300 for US/ 703-527-3887 outside US

2. HAZARDS IDENTIFICATION

Classification

This product is considered hazardous according to the criteria set within the US OSHA Hazard Communication Standard (29 CFR 1910.1200), Canada WHMIS 2015 which includes the amended Hazardous Products Act (HPA) and the Hazardous Products Regulation (HPR), and Mexico's NMX-R-019-SC-2011.

Skin Corrosion/Irritation	Category 2
Specific Target Organ Systemic Toxicity (Single Exposure)	Category 3
Aspiration Toxicity	Category 1
Flammable liquids	Category 2

Label Elements

Signal Word
Danger

Hazard Statements
Causes skin irritation
May cause drowsiness or dizziness
May be fatal if swallowed and enters airways
Highly flammable liquid and vapor.

Physical and Health Hazards Not Otherwise Classified
Not applicable.

Precautionary Statements

Prevention
- Wash face, hands and any exposed skin thoroughly after handling.
- Avoid breathing dust/fume/gas/mist/vapors/spray.
- 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 electrical/ventilating/lighting/equipment.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Keep cool.

General Advice
- Specific treatment (see supplemental first aid instructions on this label)

Skin
- If skin irritation occurs: Get medical advice/attention.
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- Wash contaminated clothing before reuse.

Inhalation
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Call a POISON CENTER or doctor/physician if you feel unwell.

Ingestion
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- Do NOT induce vomiting.

Fire
- In case of fire: Use CO2, dry chemical, or foam for extinction.

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

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

Other information
May be harmful in contact with skin.
Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms VP-1 PATCH KIT

Chemical Name	CAS-No	Weight %	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Solvent naphtha (petroleum), light aliphatic	64742-89-8	50-75	-	-
n-Heptane	142-82-5	10-25	-	-
Octane	111-65-9	2.5-10	-	-
1-Heptene	592-76-7	2.5-10	-	-

4. FIRST AID MEASURES

Description of necessary first-aid measures

Eye Contact Rinse thoroughly with plenty of water, also under the eyelids. Remove contact lenses, if applicable, and continue flushing. Get medical attention if symptoms occur.

Skin Contact Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.

Inhalation Move to fresh air. Get medical attention if symptoms occur.

Ingestion Rinse mouth. Drink plenty of water. Do NOT induce vomiting. Call a physician or Poison Control Center immediately. Aspiration hazard if swallowed - can enter lungs and cause damage.

Protection of First-aiders Use personal protective equipment.

Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects Dizziness. Drowsiness. Headache Nausea. Skin irritation. Aspiration into lungs can produce severe lung damage. Aspiration may cause pulmonary edema and pneumonitis.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician Treat symptomatically. Contains petroleum distillates. Vomiting may cause aspiration pneumonia.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Foam. Alcohol-resistant foam. Gaseous extinguishing agents. Carbon dioxide (CO_2). Dry powder. ABC powder

Unsuitable Extinguishing Media Water spray. High volume water jet

Specific Hazards Arising from the Chemical Highly flammable Vapors may travel to source of ignition and flash back. May emit toxic fumes under fire conditions.

Hazardous Combustion Products Carbon dioxide (CO_2). Carbon monoxide.

Explosion Data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge Yes.

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Remove all sources of ignition. Take precautionary measures against static discharges. Pay attention to flashback. All equipment used when handling the product must be grounded. Deny entry to unauthorized and unprotected personnel. Evacuate personnel to safe areas. Avoid breathing vapors or mists. Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing.

Environmental Precautions

Environmental Precautions Avoid release to the environment. Prevent entry into waterways, sewers, basements or confined areas. Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained. See Section 12 for additional Ecological Information.

Methods and materials for containment and cleaning up

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

Methods for Cleaning Up Use non-sparking tools and equipment. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Dispose of contaminated material as waste according to Section 13. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Ground/bond container and receiving equipment. Ensure adequate ventilation. Avoid breathing vapors or mists. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Empty containers pose a potential fire and explosion hazard.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep away from heat. Do not store with food. Store away from incompatible materials. See Section 10 for Incompatibles.

Incompatible Products Oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
n-Heptane 142-82-5	STEL: 500 ppm TWA: 400 ppm	TWA: 500 ppm TWA: 2000 mg/m³ (vacated) TWA: 400 ppm (vacated) TWA: 1600 mg/m³ (vacated) STEL: 500 ppm (vacated) STEL: 2000 mg/m³	IDLH: 750 ppm Ceiling: 440 ppm 15 min Ceiling: 1800 mg/m³ 15 min TWA: 85 ppm TWA: 350 mg/m³
Octane 111-65-9	TWA: 300 ppm	TWA: 500 ppm TWA: 2350 mg/m³ (vacated) TWA: 300 ppm (vacated) TWA: 1450 mg/m³ (vacated) STEL: 375 ppm (vacated) STEL: 1800 mg/m³	IDLH: 1000 ppm Ceiling: 385 ppm 15 min Ceiling: 1800 mg/m³ 15 min TWA: 75 ppm TWA: 350 mg/m³

Appropriate engineering controls

Engineering Measures	Showers Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection	Goggles
Skin and Body Protection	Wear suitable protective clothing Protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.
Respiratory Protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.
Hygiene Measures	Keep away from food, drink and animal feeding stuffs. Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday. Avoid breathing vapors or mists Avoid contact with skin, eyes and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid.	**Appearance**	Amber.
Odor	Solvent-like.	**Odor Threshold**	No information available.

Property	Values	Remarks/ - Method
pH	Not applicable	None known
Melting Point/Range	Not applicable	None known
Boiling Point/Boiling Range	90 °C / 194 °F	None known
Flash Point	-9 °C / 16 °F	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limits in Air		
upper flammability limit	No data available	
lower flammability limit	No data available	
Vapor Pressure	No data available	None known
Vapor Density	No data available	None known
Relative Density	No data available	None known
Specific Gravity	Not applicable	None known
Water Solubility	Not miscible	None known
Solubility in other solvents	Not applicable	None known
Partition coefficient: n-octanol/water	Not applicable	None known
Autoignition Temperature	No data available	None known
Decomposition Temperature	No data available	None known
Viscosity	Not applicable	None known

Flammable Properties	Not flammable
Explosive Properties	No data available
Oxidizing Properties	No data available

Other information

VOC Content (%) Not applicable.

10. STABILITY AND REACTIVITY

Reactivity No data available.

Chemical stability Stable under recommended storage conditions.

Possibility of hazardous reactions Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised.

Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to avoid Heat, flames and sparks. Incompatible products.

Incompatible materials Oxidizing agents.

Hazardous decomposition products Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide (CO). Carbon dioxide (CO_2). Hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation May cause drowsiness and dizziness.
Eye Contact Contact with eyes may cause irritation.
Skin Contact Causes skin irritation. May be harmful in contact with skin.
Ingestion May be fatal if swallowed and enters airways. Potential for aspiration if swallowed. Aspiration may cause pulmonary edema and pneumonitis.

LD50 Oral: > 5,000 mg/kg (rat)
LC50 Inhalation: 103 mg/L (rat)

Numerical measures of toxicity - Product

The following values are calculated based on chapter 3.1 of the GHS document:
LD50 Dermal 3,600 mg/kg; Acute toxicity estimate

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Solvent naphtha (petroleum), light aliphatic	-	= 3000 mg/kg (Rabbit)	-
n-Heptane	-	= 3000 mg/kg (Rabbit)	= 103 g/m³ (Rat) 4 h
Octane	-	-	= 25260 ppm (Rat) 4 h > 23.36 mg/L (Rat) 4 h = 118 g/m³ (Rat) 4 h

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms May cause drowsiness and dizziness Headache Nausea. Skin irritation. Aspiration into lungs can produce severe lung damage. Aspiration may cause pulmonary edema and pneumonitis.

Delayed and immediate effects and also chronic effects from short and long term exposure

Respiratory or Skin Sensitization Based on available data, the classification criteria are not met
Germ Cell Mutagenicity Based on available data, the classification criteria are not met.
Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive Toxicity Based on available data, the classification criteria are not met.
Developmental Toxicity Based on available data, the classification criteria are not met.
STOT - single exposure May cause drowsiness or dizziness
STOT - repeated exposure Based on available data, the classification criteria are not met
Aspiration Hazard May be fatal if swallowed and enters airways. Risk of serious damage to the lungs (by aspiration).

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life with long lasting effects.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Solvent naphtha (petroleum), light aliphatic 64742-89-8	EC50 72 h: = 4700 mg/L (Pseudokirchneriella subcapitata)			
n-Heptane 142-82-5		LC50 96 h: = 375.0 mg/L (Cichlid fish)		EC50 24 h: > 10 mg/L (Daphnia magna)
1-Heptene 592-76-7	EC50 96 h: = 200 mg/L (Pseudokirchneriella subcapitata)	LC50 96 h: 6 - 7.5 mg/L static (Poecilia reticulata) LC50 96 h: = 100 mg/L static (Brachydanio rerio)		EC50 48 h: = 6 mg/L (Daphnia magna)
Octane 111-65-9			EC50 = 890 mg/L 30 min	EC50 48 h: = 0.02856 mg/L (Daphnia magna) EC50 48 h: = 0.38 mg/L (water flea)

Persistence and Degradability Partly biodegradable.

Bioaccumulation Not expected to bioaccumulate.

Chemical Name	Log Pow
n-Heptane	4.66
Octane	5.18

Mobility No information available

Other Adverse Effects No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Should not be released into the environment. Dispose of in accordance with federal, state, and local regulations.

Contaminated Packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

DOT

UN-Number UN1133
Proper shipping name ADHESIVES
Hazard Class 3
Packing Group II
Description UN1133, ADHESIVES, 3, II, MARINE POLLUTANT (N-HEPTANE,OCTANE)
Emergency Response Guide Number 128

TDG

UN-Number UN1133
Proper Shipping Name ADHESIVES
Hazard Class 3
Packing Group II
Description UN1133, ADHESIVES, 3, II

MEX

UN-Number UN1133
Proper Shipping Name ADHESIVES
Hazard Class 3
Packing Group II
Description UN1133, ADHESIVES, 3, II

IATA

UN-Number UN1133
Proper Shipping Name Adhesives

Hazard Class	3
Packing Group	II
ERG Code	3L
Description	UN1133, Adhesives, 3, II

IMDG/IMO

UN-Number	UN1133
Proper Shipping Name	Adhesives
Hazard Class	3
Packing Group	II
EmS No.	F-E, S-D
Description	UN1133, ADHESIVES (HEPTANE), 3, II, (-9°C C.C.), MARINE POLLUTANT

15. REGULATORY INFORMATION

International Regulations

Ozone depleting substances	Not applicable
Persistent Organic Pollutants	Not applicable
Hazardous Waste	Not applicable
The Rotterdam Convention (Prior Informed Consent)	Not applicable
International Convention for the Prevention of Pollution from Ships (MARPOL)	Not applicable

International Inventories

TSCA	Contact supplier for inventory compliance status
DSL/NDSL	Contact supplier for inventory compliance status

Legend
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

U.S. Federal Regulations

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.

SARA 311/312 Hazard Categories
Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

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).

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). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

"X" designates that the ingredients are listed on the state right to know list.

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
n-Heptane	X	X	X		X
1-Heptene	X	X	X		
Octane	X	X	X		X

U.S. EPA Label Information
EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

NFPA	**Health Hazard** 2	**Flammability** 3	**Instability** 0	**Physical and Chemical Hazards** -
HMIS	**Health Hazard** 2	**Flammability** 3	**Physical Hazard** 0	**Personal Protection** X

Prepared By
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General Disclaimer
The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Safety Data Sheet