

Material Safety Data Sheet

Material Name: **FASTboot™ Adhesive Primer**

ID: MSDS-PSAPrimer

***** Section 1 - Chemical Product and Company Identification *****

Goodrich Part Numbers: 74-451-206, 74-451-207, 74-451-190 (In Kits: 74-451-AA, 74-451-S, 74-451-S-1)

Product Use: Adhesive Primer

Synonyms: Goodrich Patch Primer, 0500KS2 Primer

Manufacturer/Distributor Information

Goodrich
1555 Corporate Woods Parkway
Uniontown, OH 44685

Phone: (330)374-4011
Customer Service: (330)374-3743
CHEMTREC Emergency # 1-800-424-9300

NOTE: CHEMTREC telephone number is to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals. All non-emergency questions should be directed to customer service.

***** Section 2 - Composition / Information on Ingredients *****

CAS #	Component	Percent
110-82-7	Cyclohexane	45-50
1330-20-7	Xylenes (O-, M-, P- Isomers)	10-30
64-17-5	Ethyl alcohol	5-10
100-41-4	Ethyl benzene	5-10
141-78-6	Ethylacetate	1-5
Not Available	Acrylic Polymer	1-5
68609-36-9	Chlorinated Polyethylene	1-5
67-63-0	Isopropyl alcohol	<1

Component Information/Information on Non-Hazardous Components

This product is considered hazardous under 29 CFR 1910.1200 (OSHA Hazard Communication Standard).

***** Section 3 - Hazards Identification *****

Emergency Overview

Product is an amber, flammable adhesive compound. Toxic fumes and gases may be released during combustion. Harmful or fatal if swallowed or inhaled. Contact may cause irritation to eyes and skin. Inhalation of vapors may produce respiratory tract irritation, and central nervous system depression.

Hazard Statements

Warning! *Flammable Liquid and Vapor. Vapor May Cause Flash Fire.* May cause nausea and dizziness. Harmful or fatal if swallowed or inhaled. May be irritating to eyes, skin and respiratory system.

Potential Health Effects: Eyes

This product may cause irritation to the eyes. Symptoms include redness, swelling, pain and tearing. Vapors may also cause eye irritation.

Potential Health Effects: Skin

This product may cause irritation to the skin. Prolonged or repeated contact with this product may dry and/or defat the skin. This product contains a component which may be harmful if it is absorbed through the skin.

Potential Health Effects: Ingestion

This product is harmful or fatal if swallowed. If ingested, gastric irritation and discomfort may occur. Upon ingestion of a large amount, more serious health effects may occur. Aspiration of small amounts into the lung may produce severe lung damage, including fatal chemical pneumonitis.

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Potential Health Effects: Inhalation

Inhalation of vapors may cause central nervous system depression including nausea, vomiting, fatigue, dizziness and loss of coordination. Continued overexposure may produce nervous system damage including muscle tingling, numbness, coma and death.

HMIS Ratings: Health: 2* Fire: 3 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

*** Section 4 - First Aid Measures ***

First Aid: Eyes

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

First Aid: Skin

In case of contact, wash thoroughly with soap and large amounts of water. If irritation develops, get medical attention.

First Aid: Ingestion

If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting.

First Aid: Inhalation

If vapors from this product are inhaled, remove to fresh air. If respiratory irritation occurs, if breathing becomes difficult, or if other symptoms develop, seek medical attention immediately.

First Aid: Notes to Physician

This material, if aspirated into the lungs, may cause chemical pneumonitis; treat the affected person appropriately.

*** Section 5 - Fire Fighting Measures ***

Flash Point: Approximately -4°F (-20°C) (approximate)

Upper Flammable Limit (UFL): 6%

Auto Ignition: Not Available

Rate of Burning: Not Available

Method Used: OC

Lower Flammable Limit (LFL): 1%

Flammability Classification: Flammable

General Fire Hazards

WARNING flammable liquid and vapor. Vapor may cause flash fire. This material can be ignited by flame or spark under all normal atmospheric conditions. Irritating and toxic gases or fumes may be released during a fire.

Hazardous Combustion Products

Decomposition of this product may yield carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Extinguishing Media

Carbon dioxide, dry chemical, foam.

Fire Fighting Equipment/Instructions

Firefighters should wear full protective clothing including self contained breathing apparatus.

NFPA Ratings: Health: 2 Fire: 3 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

*** Section 6 - Accidental Release Measures ***

Containment Procedures

Contain the discharged material. Eliminate all sources of ignition or flammables that may come into contact with a spill of this material.

Clean-Up Procedures

Do not allow the spilled product to enter public drainage system or open water courses. Wear appropriate protective equipment and clothing during clean-up. Ventilate the contaminated area.

Evacuation Procedures

Isolate area. Keep unnecessary personnel away.

Special Procedures

None.

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*** Section 7 - Handling and Storage ***

Handling Procedures

Do not inhale vapors. Keep away from heat, sparks, and flame. Keep container closed. Use only with adequate ventilation. Do not allow eye and skin contact. As with all chemicals, good industrial hygiene practices should be followed when handling this material. Wash thoroughly after handling.

Storage Procedures

Keep the container tightly closed and in a cool, well-ventilated place. Eliminate all sources of ignition.

*** Section 8 - Exposure Controls / Personal Protection ***

Exposure Guidelines

A: General Product Information

Follow all applicable exposure limits.

B: Component Exposure Limits

Cyclohexane (110-82-7)

ACGIH: (300) ppm TWA; 1030 mg/m³ TWA

OSHA: 300 ppm TWA; 1050 mg/m³ TWA

NIOSH: 300 ppm TWA; 1050 mg/m³ TWA

Xylenes (O-, M-, P- Isomers) (1330-20-7)

ACGIH: 100 ppm TWA; 434 mg/m³ TWA

150 ppm STEL; 651 mg/m³ STEL

OSHA: 100 ppm TWA; 435 mg/m³ TWA

150 ppm STEL; 655 mg/m³ STEL

NIOSH: 100 ppm TWA; 435 mg/m³ TWA

Ethyl alcohol (64-17-5)

ACGIH: 1000 ppm TWA; 1880 mg/m³ TWA

OSHA: 1000 ppm TWA; 1900 mg/m³ TWA

NIOSH: 1000 ppm TWA; 1900 mg/m³ TWA

Ethyl benzene (100-41-4)

ACGIH: 100 ppm TWA; 434 mg/m³ TWA

125 ppm STEL; 543 mg/m³ STEL

OSHA: 100 ppm TWA; 435 mg/m³ TWA

125 ppm STEL; 545 mg/m³ STEL

NIOSH: 100 ppm TWA; 435 mg/m³ TWA

125 ppm STEL; 545 mg/m³ STEL

Ethylacetate (141-78-6)

ACGIH: 400 ppm TWA; 1440 mg/m³ TWA

OSHA: 400 ppm TWA; 1400 mg/m³ TWA

NIOSH: 400 ppm TWA; 1500 mg/m³ TWA

Isopropyl alcohol (67-63-0)

ACGIH: (400) ppm TWA; (983) mg/m³ TWA

(500) ppm STEL; (1230) mg/m³ STEL

OSHA: 400 ppm TWA; 980 mg/m³ TWA

500 ppm STEL; 1225 mg/m³ STEL

NIOSH: 400 ppm TWA; 980 mg/m³ TWA

500 ppm STEL; 1225 mg/m³ STEL

Engineering Controls

Use local exhaust ventilation. Explosion-proof exhaust devices are required.

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PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Wear chemical goggles. Face shield if splashing is possible.

Personal Protective Equipment: Skin

Use impervious gloves. Wear impervious clothing to prevent all skin contact.

Personal Protective Equipment: Respiratory

If ventilation is not sufficient to effectively remove vapors, appropriate NIOSH approved respiratory protection must be provided.

Personal Protective Equipment: General

Keep formation of fumes to a minimum.

*** Section 9 - Physical & Chemical Properties ***

Appearance:	Amber	Odor:	Solvent
Physical State:	Liquid	pH:	5.5
Vapor Pressure:	68 mmHg@25°C	Vapor Density:	0.0043@100°C
Boiling Point:	170-280°F	Melting Point:	Not available
Solubility (H₂O):	10%	Specific Gravity:	0.82g/ml
Freezing Point:	Not available	Viscosity:	30-40cP
Percent Volatile:	94%		

Physical Properties: Additional Information – The above data is approximate and may be based on calculated data.

*** Section 10 – Chemical Stability & Reactivity Information ***

Chemical Stability

Stable under normal conditions.

Chemical Stability: Conditions to Avoid

Keep container tightly closed. Keep away from heat and ignition sources.

Incompatibility

Avoid contact with heat, strong acids and oxidizing materials.

Hazardous Decomposition

Decomposition of this product may yield carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Hazardous Polymerization

Hazardous polymerization will not occur.

*** Section 11 - Toxicological Information ***

Acute Toxicity

A: General Product Information

No data available for this product. Cyclohexane, xylene, ethanol, ethyl acetate, ethyl benzene and isopropanol are central nervous system depressants which may cause lightheadedness, nausea, headache and ataxia at low doses, and confusion, respiratory depression, coma and death at high doses. Xylene may be harmful if absorbed through the skin and is also irritating to the eyes and respiratory system.

B: Component Analysis - LD50/LC50

Cyclohexane (110-82-7)

Oral LD50 Rat : 12705 mg/kg

Oral LD50 Mouse : 813 mg/kg

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Xylenes (O-, M-, P- Isomers) (1330-20-7)

Inhalation LC50 Rat : 5000 ppm/4H

Oral LD50 Rat : 4300 mg/kg

Dermal LD50 Rabbit : >1700 mg/kg

Ethyl alcohol (64-17-5)

Inhalation LC50 Rat : 20000 ppm/10H

Inhalation LC50 Mouse : 39 gm/m³/4H

Oral LD50 Rat : 7060 mg/kg

Oral LD50 Mouse : 3450 mg/kg

Ethyl benzene (100-41-4)

Oral LD50 Rat : 3500 mg/kg

Dermal LD50 Rabbit : 17800 uL/kg

Ethylacetate (141-78-6)

Inhalation LC50 Rat : 200 gm/m³

Inhalation LC50 Mouse : 45 gm/m³/2H

Oral LD50 Rat : 5620 mg/kg

Oral LD50 Mouse : 4100 mg/kg

Dermal LD50 Rabbit : >20 mL/kg

Isopropyl alcohol (67-63-0)

Inhalation LC50 Rat : 16000 ppm/8H

Oral LD50 Rat : 5045 mg/kg

Oral LD50 Mouse : 3600 mg/kg

Dermal LD50 Rabbit : 12800 mg/kg

Carcinogenicity

A: General Product Information

No data available for this product.

B: Component Carcinogenicity

Xylenes (O-, M-, P- Isomers) (1330-20-7)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

IARC: Monograph 47, Monograph 71; 1998 (Group 3 (not classifiable))

Ethyl alcohol (64-17-5)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

Isopropyl alcohol (67-63-0)

IARC: Monograph 15, Supplement 7; Monograph 71; 1998 (Group 3 (not classifiable))

Epidemiology

No data available for this product. Chronic excessive inhalation of solvent vapors may produce sudden death due to cardiac sensitization to epinephrine.

Neurotoxicity

No data available for this product. Chronic overexposure to solvent vapors may produce nervous system damage including intelligence and behavioral changes, loss of memory, fatigue, reduced awareness and damage to hearing and eyesight. Cyclohexane, xylene, ethanol, ethyl acetate, ethyl benzene and isopropanol are all central nervous system depressants. Symptoms of overexposure include headache, nausea, vomiting, fatigue, flushing, dizziness, loss of coordination, and slowing of reflexes.

Mutagenicity

No data available for this product. Solvent components of this product have demonstrated mutagenic potential in a wide variety of experimental systems. One occupational study reported elevated sister chromatid exchanges in laboratory workers with mixed exposure to xylene and other solvents. Ethanol has been reported to damage the chromosomes in mammalian cells and cause a variety of genetic effects in various experimental systems. Ethyl benzene was weakly positive for inducing sister chromatid exchanges in human white blood cells in culture and produced mutations in mouse lymphocytes.

Teratogenicity

No data available for this product. Xylene has been shown to cause birth defects and reproductive disorders in laboratory animals. Ethanol ingestion may affect male fertility, and ingestion by females during pregnancy may produce fetal alcohol syndrome in the offspring characterized by low birth weight and various birth defects.

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Other Toxicological Information

None.

*** Section 12 - Ecological Information ***

Ecotoxicity

Not data available for this product. Organic solvents may produce significant toxicity to aquatic organisms and ecosystems.

Environmental Fate

No data is available concerning environmental fate, biodegradation or bioconcentration for this product. Xylene is primarily removed from environmental systems by volatilization. Xylenes are moderately mobile in soil and may leach into groundwater where they are known to persist for several years. Bioconcentration is not expected to be significant.

*** Section 13 - Disposal Considerations ***

US EPA Waste Number & Descriptions

A: General Product Information

Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes. If discarded as sold, this product would be considered a RCRA ignitable waste, D001.

B: Component Waste Numbers

Cyclohexane (110-82-7)

RCRA: waste number U056 (Ignitable waste)

Xylenes (O-, M-, P- Isomers) (1330-20-7)

RCRA: waste number U239 (Ignitable waste; Toxic waste)

Ethylacetate (141-78-6)

RCRA: waste number U112 (Ignitable waste)

Disposal Instructions

Dispose of waste material in accordance with all applicable Federal, State or provincial and local environmental regulations.

*** Section 14 - Transportation Information ***

US DOT Information

Shipping Name: Flammable liquid, N.O.S (cyclohexane, xylenes)

Hazard Class: 3

UN/NA #: UN1993

Packing Group: II

Required Label(s): Flammable Liquid

Additional Info.: None.

TDG Information

Shipping Name: Flammable liquid, N.O.S. (cyclohexane, xylenes)

Hazard Class: 3

UN/NA #: UN1993

Packing Group: II

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International Transportation Regulations

NOTE: The data in this section (Section 14) is meant as a guide to the overall classification of the product. However, transportation classification may be subject to change with changes in package size. Consult shipper requirements under I.M.O., I.C.A.O. (I.A.T.A.) and 49 CFR to assure regulatory compliance.

IATA Classification:

Flammable liquid, N.O.S. (cyclohexane, xylenes), Class 3, UN1993, PGII, Flamm. liquid

IMO Classification:

Flammable liquid, N.O.S. (cyclohexane, xylenes), Class 3.1, UN1993, PGII, Flamm. liquid, IMDG Code Page 3102, EmS3-05, MFAG Table330

*** Section 15 – Regulatory Information ***

US Federal Regulations

A: General Product Information

No additional information.

B: Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

Cyclohexane (110-82-7)

SARA 313: form R reporting required for 1.0% de minimis concentration

CERCLA: final RQ = 1000 pounds (454 kg)

Xylenes (O-, M-, P- Isomers) (1330-20-7)

SARA 313: form R reporting required for 1.0% de minimis concentration

CERCLA: final RQ = 100 pounds (45.4 kg)

Ethyl benzene (100-41-4)

SARA 313: form R reporting required for 1.0% de minimis concentration

CERCLA: final RQ = 1000 pounds (454 kg)

Ethylacetate (141-78-6)

CERCLA: final RQ = 5000 pounds (2270 kg)

Isopropyl alcohol (67-63-0)

SARA 313: form R reporting required for 1.0% de minimis concentration (only if manufactured by the strong acid process)

State Regulations

A: General Product Information

Other state regulations may apply.

B: Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS #	CA	FL	MA	MN	NJ	PA
Cyclohexane	110-82-7	Yes	Yes	Yes	Yes	Yes	Yes
Xylenes (O-, M-, P- Isomers)	1330-20-7	Yes	Yes	Yes	Yes	Yes	Yes
Ethyl alcohol	64-17-5	Yes	Yes	Yes	Yes	Yes	Yes
Ethyl benzene	100-41-4	Yes	Yes	Yes	Yes	Yes	Yes
Ethylacetate	141-78-6	Yes	Yes	Yes	Yes	Yes	Yes
Isopropyl alcohol	67-63-0	Yes	Yes	Yes	Yes	Yes	Yes

Other Regulations

A: General Product Information

No additional information.

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B: Component Analysis - Inventory

Component	CAS #	TSCA	DSL	EINECS
Cyclohexane	110-82-7	Yes	Yes	Yes
Xylenes (O-, M-, P- Isomers)	1330-20-7	Yes	Yes	Yes
Ethyl alcohol	64-17-5	Yes	Yes	Yes
Ethyl benzene	100-41-4	Yes	Yes	Yes
Ethylacetate	141-78-6	Yes	Yes	Yes
Chlorinated Polyethylene	68609-36-9	Yes	Yes	No
Isopropyl alcohol	67-63-0	Yes	Yes	Yes

C: Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Cyclohexane	110-82-7	1% item 465 (601)
Ethyl alcohol	64-17-5	0.1% item 684 (805)
Ethyl benzene	100-41-4	0.1% item 697 (854)
Ethylacetate	141-78-6	1% item 689 (17)

*** Section 16 – Other Information ***

Other Information

The information herein is presented in good faith and believed to be accurate as of the effective date given. However, no warranty, expressed or implied, is given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

Key/Legend

ppm = parts per million; mg/m³ = milligrams per cubic meter of air; EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; TLV = Threshold Limit Value; NFPA = National Fire Protection Association; HMIS = High Efficiency Particulate Air; CERCLA = Comprehensive Environmental Response, Compensation and Liability Act; SARA = Superfund Amendments and Reauthorization Act.

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Contact Phone: (330)374-4011

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