Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name
PVC Step 2 Primer

Chemical Family
Primer, mixture

Restrictions on Use
For industrial use only.

Manufacturer Information
Carlisle SynTec
1285 Ritner Highway
Carlisle, PA 17013  USA
Phone: +1-800-479-6832
Emergency Phone #: +1-800-424-9300 (Chemtrec)

Supplier Information:
Mule-Hide Products Co., Inc.
1195 Prince Hall Drive
Beloit, WI  53512
USA
Phone: 800-786-1492

Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.
Flammable Liquids - Category 2
Skin Corrosion/Irritation - Category 2
Serious Eye Damage/Eye Irritation - Category 2A
Skin Sensitization - Category 1A
Carcinogenicity - Category 2
Specific Target Organ Toxicity - Single Exposure - Category 3

GHS Label Elements

Symbol(s)

Signal Word
Danger

Hazard Statement(s)
Highly flammable liquid and vapor
Causes skin irritation
Causes serious eye irritation
May cause allergic skin reaction
Suspected of causing cancer
May cause drowsiness or dizziness
Precautionary Statement(s)

Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Keep container tightly closed
Keep away from heat/sparks/open flame/hot surfaces - No smoking
Ground/Bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting equipment
Take precautionary measures against static discharge
Use only non-sparking tools
Use only outdoors or in a well-ventilated area
Wear protective gloves/protective clothing/eye protection/face protection
Avoid breathing dust/fume/gas/mist/vapours/spray
Wash thoroughly after handling
Contaminated work clothing must not be allowed out of the workplace

Response
In case of fire: Use appropriate media to extinguish
IF exposed or concerned: Get medical advice/attention
IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing
Call a POISON CENTER if you feel unwell
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
Take off contaminated clothing and wash before reuse
Specific treatment (see label)

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

Disposal
Dispose of contents/container in accordance with local/regional/national/international regulations

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS</th>
<th>Component Name</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>64742-89-8</td>
<td>Solvent naphtha, petroleum, light aliphatic</td>
<td>10-30</td>
</tr>
<tr>
<td>Trade Secret</td>
<td>Isophorone Diisocyanate</td>
<td>0.1-1</td>
</tr>
</tbody>
</table>
Section 4 - FIRST AID MEASURES

Description of Necessary Measures
IF exposed or concerned: Get medical advice/attention.

Inhalation
Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.

Skin
Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention.

Eyes
Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion
If swallowed, get medical attention.

Indication of any immediate medical attention and special treatment needed
Treat symptomatically and supportively.

Most Important Symptoms/Effects
Acute
Causes skin irritation. Causes serious eye irritation. May cause allergic skin reaction. May cause drowsiness or dizziness.

Delayed
May cause allergic skin reaction. Suspected of causing cancer.

Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media
Dry chemical, foam or carbon dioxide. Water may be ineffective.

Unsuitable Extinguishing Media
Do not use high-pressure water streams.
Material Name: PVC Step 2 Primer

Highly flammable liquid and vapor.

**Hazardous Combustion Products**
Carbon monoxide, carbon dioxide, oxides of nitrogen, aldehydes

**Fire Fighting Measures**
Move container from fire area if it can be done without risk.

---

**Section 6 - ACCIDENTAL RELEASE MEASURES**

**Personal Precautions, Protective Equipment and Emergency Procedures**
Wear personal protective clothing and equipment, see Section 8.

**Methods and Materials for Containment and Cleaning Up**
Remove all sources of ignition. Avoid breathing vapors. Wear self-contained breathing apparatus and protective clothing. Ventilate the area. Use non-sparking tools. Large spills: Dike for later disposal. Cleanup Methods: Absorb with sand or other non-combustible material. Use clean non-sparking tools to collect absorbed material and place it into loosely-covered metal or plastic containers for later disposal. Dispose in accordance with all applicable federal, state/regional and local laws and regulations.

**Environmental Precautions**
Avoid release to the environment. Collect spillage.

---

**Section 7 - HANDLING AND STORAGE**

**Precautions for Safe Handling**
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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. Take precautionary measures against static discharge. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. KEEP OUT OF REACH OF CHILDREN.

**Conditions for Safe Storage, Including any Incompatibilities**
Store in a well-ventilated place. Keep container tightly closed
Keep cool
Store locked up
Keep dry. Keep away from heat and ignition sources. Do not puncture or burn containers, even when empty. Empty containers may contain product residue.

**Incompatible Materials**
Strong oxidizing agents, acids, bases

---

**Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**
Component Exposure Limits

<table>
<thead>
<tr>
<th>Component</th>
<th>ACGIH (ppm TWA)</th>
<th>NIOSH (ppm TWA; mg/m3 TWA)</th>
<th>Europe (ppm TWA; mg/m3 TWA)</th>
<th>OSHA (US) (ppm TWA; Ceiling)</th>
<th>Mexico (ppm TWA LMPE-PPT; mg/m3 TWA LMPE-PPT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene</td>
<td>20</td>
<td>100; 375; 150; 500</td>
<td>50; 192; 100; 500</td>
<td>200; 300</td>
<td>50; 188</td>
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<td></td>
<td></td>
<td>375; 150; 300</td>
<td></td>
<td>192; 384</td>
</tr>
</tbody>
</table>

Possibility of significant uptake through the skin

Biological limit value
There are no biological limit values for any of this product's components.

Engineering Controls
Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection
Wear splash resistant safety goggles with a faceshield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin Protection
Wear appropriate chemical resistant clothing. Wear protective shoes.

Respiratory Protection
A NIOSH approved air-purifying respirator with an appropriate cartridge or canister may be appropriate under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Glove Recommendations
Wear appropriate chemical resistant gloves.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>orange to red liquid</td>
</tr>
<tr>
<td>Physical State</td>
<td>liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>characteristic</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting Point</td>
<td>-95 °C(-139°F)</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>111 - 141 °C(-232 -259°F)</td>
</tr>
<tr>
<td>Freezing point</td>
<td>Not available</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>2.7</td>
</tr>
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</table>
Material Name: PVC Step 2 Primer

<table>
<thead>
<tr>
<th>Boiling Point Range</th>
<th>Not available</th>
<th>Flammability (solid, gas)</th>
<th>Not available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autoignition</td>
<td>500 °C(932°F)</td>
<td>Flash Point</td>
<td>4 °C(40°F)</td>
</tr>
<tr>
<td>Lower Explosive Limit</td>
<td>0.9</td>
<td>Decomposition</td>
<td>Not available</td>
</tr>
<tr>
<td>Upper Explosive Limit</td>
<td>6.7</td>
<td>Vapor Pressure</td>
<td>19.3 mmHg</td>
</tr>
<tr>
<td>Vapor Density (air=1)</td>
<td>3.4</td>
<td>Specific Gravity (water=1)</td>
<td>Not available</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Insoluble</td>
<td>Partition coefficient: n-octanol/water</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>&lt;200 cps</td>
<td>Solubility (Other)</td>
<td>Not available</td>
</tr>
<tr>
<td>Density</td>
<td>0.75 - 0.81</td>
<td>VOC</td>
<td>645 g/L</td>
</tr>
</tbody>
</table>

**Section 10 - STABILITY AND REACTIVITY**

**Reactivity**
No reactivity hazard is expected.

**Chemical Stability**
Stable under normal conditions of use.

**Possibility of Hazardous Reactions**
Will not polymerize.

**Conditions to Avoid**
Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

**Incompatible Materials**
Strong oxidizing agents, acids, bases

**Hazardous decomposition products**
Carbon monoxide, carbon dioxide, aldehydes

**Section 11 - TOXICOLOGICAL INFORMATION**

**Information on Likely Routes of Exposure**

**Inhalation**
May cause drowsiness or dizziness.

**Skin Contact**
May cause allergic skin reaction. Causes skin irritation.

**Eye Contact**
Causes serious eye irritation.
Ingestion
No information on significant adverse effects.

Acute and Chronic Toxicity

Component Analysis - LD50/LC50
The components of this material have been reviewed in various sources and the following selected endpoints are published:

Solvent naphtha, petroleum, light aliphatic (64742-89-8)
- Oral LD50 Rat >2000 mg/kg
- Dermal LD50 Rat >2000 mg/kg
- Inhalation Rat >5000 ppm 1 hour

Isophorone Diisocyanate (Trade Secret)
- Oral LD50 Rat >20000 mg/kg
- Dermal LD50 Rabbit 4000 mg/kg
- Inhalation LC50 Rat 5 mg/l 4 h

Toluene (108-88-3)
- Oral LD50 >7000 mg/kg
- Dermal LD50 12 - 14 g/kg
- Inhalation LC50 30 - 35 mg/L

Chlorinated polypropylene (Trade Secret)
- Oral Rat 5000 mg/kg

Heat reactive phenolic resin (Trade Secret)
- Oral LD50 Rat 2160 mg/kg
- Dermal Rabbit 1880 mg/kg

Isophorondiamine-isobutyraldimine (Trade Secret)
- Oral Rat 4150 mg/kg [OECD Test Guideline 401]
- Dermal Rat >5000 mg/kg [OECD Test Guideline 402]

Immediate Effects
Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. May cause allergic skin reaction.

Delayed Effects
May cause allergic skin reaction. Suspected of causing cancer.

Irritation/Corrosivity Data
Causes skin irritation. Causes serious eye irritation.

Respiratory Sensitization
No information available for the product.

Dermal Sensitization
May cause allergic skin reaction.

Component Carcinogenicity

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
</tr>
</tbody>
</table>
Germ Cell Mutagenicity
No information available for the product.

Tumorigenic Data
No data available

Reproductive Toxicity
No information available for the product.

Specific Target Organ Toxicity - Single Exposure
central nervous system

Specific Target Organ Toxicity - Repeated Exposure
No target organs identified.

Aspiration hazard
No information available for the product.

Medical Conditions Aggravated by Exposure
No data available.

Section 12 - ECOLOGICAL INFORMATION

Component Analysis - Aquatic Toxicity

<table>
<thead>
<tr>
<th>Solvent naphtha, petroleum, light aliphatic</th>
<th>64742-89-8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Algae: EC50 72 h Pseudokirchneriella subcapitata 4700 mg/L IUCLID</td>
<td></td>
</tr>
<tr>
<td>Isophorone Diisocyanate</td>
<td>Trade Secret</td>
</tr>
<tr>
<td>Fish: LC50 96 h Oncorhynchus mykiss 9.22 mg/L</td>
<td></td>
</tr>
<tr>
<td>Invertebrate: EC50 48 h Daphnia magna 6.14 mg/L IUCLID</td>
<td></td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
</tr>
<tr>
<td>Fish: LC50 96 h Pimephales promelas 15.22 - 19.05 mg/L [flow-through] (1 day old); LC50 96 h Pimephales promelas 12.6 mg/L [static]; LC50 96 h Oncorhynchus mykiss 5.89 - 7.81 mg/L [flow-through]; LC50 96 h Oncorhynchus mykiss 14.1 - 17.16 mg/L [static]; LC50 96 h Oncorhynchus mykiss 5.8 mg/L [semi-static]; LC50 96 h Lepomis macrochirus 11 - 15 mg/L [static];</td>
<td></td>
</tr>
</tbody>
</table>
Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods
Dispose of contents/container in accordance with local/regional/national/international regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D001.

Section 14 - TRANSPORT INFORMATION

US DOT Information:
Shipping Name: ADHESIVES
Hazard Class: 3
UN/NA #: UN1133
Packing Group: II
Required Label(s): 3

IATA Information:
Shipping Name: ADHESIVES
Hazard Class: 3
UN#: UN1133
Packing Group: II
Required Label(s): 3

TDG Information:
Section 15 - REGULATORY INFORMATION

U.S. Federal Regulations
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), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>CA</th>
<th>MA</th>
<th>MN</th>
<th>NJ</th>
<th>PA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

SARA Section 311/312 (40 CFR 370 Subparts B and C)
Acute Health: Yes Chronic Health: Yes Fire: Yes Pressure: No Reactivity: No

U.S. State Regulations
The following components appear on one or more of the following state hazardous substances lists:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>CA</th>
<th>MA</th>
<th>MN</th>
<th>NJ</th>
<th>PA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):
WARNING! This product contains a chemical known to the state of California to cause reproductive/developmental effects

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>development toxicity , 1/1/1991</td>
</tr>
</tbody>
</table>

Canadian WHMIS Ingredient Disclosure List (IDL)
Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL.

| Component |CAS       |%
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
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</table>

Component Analysis - Inventory
Solvent naphtha, petroleum, light aliphatic (64742-89-8)
Isophorone Diisocyanate (Trade Secret)

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<tbody>
<tr>
<td>Yes</td>
<td>DSL</td>
<td>EIN</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
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Toluene (108-88-3)

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<tbody>
<tr>
<td>Yes</td>
<td>DSL</td>
<td>EIN</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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</table>

Chlorinated polypropylene (Trade Secret)

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</thead>
<tbody>
<tr>
<td>Yes</td>
<td>DSL</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
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</tbody>
</table>

Heat reactive phenolic resin (Trade Secret)

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</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>DSL</td>
<td>EIN</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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</table>

Isophorondiamine-isobutyraldimine (Trade Secret)

<table>
<thead>
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</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>DSL</td>
<td>EIN</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

Section 16 - OTHER INFORMATION

HMIS Rating

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

NFPA Ratings
Safety Data Sheet

Material Name: PVC Step 2 Primer

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

Summary of Changes
Revision Date: June 1, 2018
Revision Note: General Update

Key / Legend
ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport;
AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical
Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability
Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products
Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD -
Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic
Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA -
Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency
for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil
Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and
Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition
coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™
- ChemADVISOR’s Regulatory Database; MAK - Maximum Concentration Value in the Workplace;
MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute
for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National
Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH -
Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation,
Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund
Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of
Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper
Explosive Limit; US - United States.

Other Information

Disclaimer:
The information contained herein is based upon data and information available to us, and reflects our best
professional judgment. This product may be formulated in part with components purchased from other
companies. No warranty of merchantability, fitness for any use, or any other warranty is expressed or
implied regarding the accuracy of such data or information. The results to be obtained from the use
thereof, or that any such use does not infringe any patent, since the information contained herein may be
applied under conditions of use beyond our control and with which we may be unfamiliar, we do not
assume responsibility for the results of such application. This information is furnished upon the condition
that the person receiving it shall make his own determination of the suitability of the material for his
particular use.