

**PEN-STRIP® NPX**

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Date Prepared: April 1, 2015  
MSDS No.: 5010

**SECTION 1: IDENTIFICATION**

**Product name:** PEN-STRIP NPX

**Recommended use:** Paint stripping

**Physical Description:** Light pink to purple liquid with sharp irritating

**Generic Ingredients:** Halogenated solvent, organic acid, surfactant, aromatic hydrocarbon, water, wax

**Manufacturer:**

Penetone Corporation  
700 Gotham Parkway  
Carlstadt, NJ 07072  
800-631-1652 or 201-567-3000

**Business Contact:**

Customer Service  
800-631-1652 x2602 or 2272  
Product Safety  
800-631-1652 x2211 or 2257

**Emergency Phone Numbers:**    **PENETONE 201-567-3000**    **CHEMTREC 800-424-9300**

**SECTION 2: HAZARDS IDENTIFICATION**

**GHS CLASSIFICATION:**

<p><b>Physical:</b> not classified</p>	<p><b>Health:</b> Eye damage: 1 Skin corrosion: 1 Carcinogenicity: 2 Acute toxicity - oral: 4 Specific target organ toxicity - repeated exposure, oral: 2, liver, blood Specific target organ toxicity - single exposure: 3, respiratory system, central nervous system Specific target organ toxicity - repeated exposure, inhalation: 2, central nervous system</p>
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**DANGER**

Causes Severe Skin Burns and Eye Damage.

Harmful if Swallowed.

May Cause Respiratory Irritation.

May Cause Drowsiness or Dizziness.

Suspected of Causing Cancer.

May Cause Damage to Organs (Liver, Blood) Through Prolonged or Repeated Exposure if Swallowed.

May Cause Damage to Organs (Central Nervous System) Through Prolonged or Repeated Exposure if Inhaled.



<p><b>Precautions:</b></p>	
<p><u>Prevention:</u> Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breath fumes/mist/vapor/spray. Use only outdoors or in a well ventilated area. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye and face protection. Wash hands and exposed skin thoroughly after handling.</p> <p><u>Response:</u> <i>If exposed or concerned:</i> Get medical advice/attention. <i>If on skin:</i> Take off immediately all contaminated clothing. Rinse skin with water/shower. A mild soap may be used. Wash contaminated clothing before reuse.</p>	<p><i>If in eyes:</i> Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. <i>If inhaled:</i> Remove person to fresh air and keep comfortable for breathing. <i>If swallowed:</i> Rinse mouth. Do NOT induce vomiting. Immediately call a poison center/doctor/emergency room/911.</p> <p><u>Storage:</u> Store locked up. Store in a well ventilated place. Keep container tightly closed.</p> <p><u>Disposal:</u> Dispose of contents/container in accordance with local, regional, and national regulations (see Sections 13 and 15 of SDS for disposal and reporting requirements).</p>



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**SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	CAS#	Concentration Wt% (1)
Methylene chloride (dichloromethane)	75-09-2	60-80
Formic acid	64-18-6	15-25
Dodecylbenzene sulfonic acid	27176-87-0	<10
Aromatic petroleum naphtha	64742-94-5	<10
Polyethylene wax	8002-74-2	<10

(1) Exact percentages being withheld under trade secret provision of OSHA HCS 1910.1200(l)

**SECTION 4: FIRST-AID MEASURES**

**General Description of Symptoms & First-Aid Measures**

Most likely work-place exposure routes will be *skin contact* or *inhalation*.

For *skin contact*, a tingling or burning sensation might be felt almost immediately. Skin may quickly redden or blister if product is not quickly washed off.

*Inhalation* exposure may produce varied effects, particularly if exposure occurs above the recommended workplace exposure limits (see SECTION 8). Typical symptoms could include coughing, sneezing, and a tingling or burning sensation in the nose, throat, and lungs.

**Note: This product is corrosive to all tissue, and immediate action is required to avoid serious injury or permanent damage to exposed tissue.**

**Eyes**

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center, doctor, physician or other competent medical authority for medical advice. Penetone recommends that after any eye exposure a physician be seen immediately.

**Ingestion**

If swallowed: Rinse mouth. **DO NOT INDUCE VOMITING.** Immediately call a poison center, doctor, physician or other competent medical authority for medical advice.

**Inhalation**

If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a local Poison Control Center, physician, or other competent medical authority for medical advice.

**Skin**

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. A mild soap may be used to wash skin. Wash contaminated clothing before reuse. Immediately call a local Poison Control Center, doctor, physician or other competent medical authority for medical advice.

**Special Treatment / Other**

Possible or probable mucosal damage may contraindicate the use of gastric lavage. Because rapid absorption of methylene chloride may occur through lungs if aspirated and cause systemic effects, the decision of whether to induce vomiting or not should be made by a physician. If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. Exposure may increase "myocardial irritability." Do not administer sympathomimetic drugs unless absolutely necessary. Carboxyhemoglobinemia may aggravate any preexisting condition sensitive to a decrease in available oxygen, such as chronic lung disease, coronary artery disease or anemias.



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**SECTION 5: FIRE FIGHTING MEASURES**

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**Flammable Properties**

**Classification:** Non-flammable

**Flash Point:** None-to-boil, TCC

**Autoignition Temperature:** not determined

**Lower Flammable Limit:** not determined **Upper Flammable Limit:** not determined

**Specific Hazards**

Product has a very low boiling point of around 104°F. Containers can expand and explode under fire conditions due to vapor buildup.

**Extinguishing Media**

**Suitable:** SMALL FIRE: Use dry chemical, carbon dioxide (CO<sub>2</sub>), water spray or regular foam. LARGE FIRE: water spray, water fog, or foam.

**Unsuitable:** Do not use solid water stream as this may spread fire.

**Protection & Precautions for Firefighters**

**Protective Equipment & Clothing:** Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters protective clothing will only provide limited protection.

**Fire Fighting Guidance:** Cool containers with flooding quantities of water until well after fire is out. Move containers from fire area if you can do it safely. Dike fire control water for later disposal; do not scatter material. Containers can expand and explode under fire conditions due to vapor buildup. Always stay away from containers engulfed in fire.

**Hazardous Combustion Products:** Smoke, fumes, and oxides of carbon, chlorine, sulfur, hydrogen chloride and traces of phosgene and chlorine.

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

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**Land Spill**

Stop leak if you can do it safely. For large spills, dike and pump into properly labeled containers for reclamation or disposal. For small spill, soak up with absorbent material and place in properly labeled containers for disposal. Product vapors are heavier than air and will concentrate in low areas. Keep personnel out of low, confined, or poorly ventilated areas. Keep upwind of spill. Ventilate area of leak or spill. Confined space entry procedures may be required.

**Water Spill**

Product is much denser than water and will sink making recovery difficult. Product contains a surfactant which may cause it to emulsify. Avoid agitation if possible. Product is acidic and will lower the pH of water. Check with local environmental regulatory agencies for reporting requirements.

**See SECTION 8 for EXPOSURE CONTROLS and PERSONAL PROTECTION.**

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**SECTION 7: HANDLING & STORAGE**

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**Handling**

Avoid contact with eyes, skin and clothing. After handling, always wash hands thoroughly with soap and water. Avoid personal contact with any residue. Do not cut, weld, or reuse empty container. Carefully vent off any internal pressure in the drum by opening bung slowly. Keep face away when opening bung.



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**Storage**

Keep container tightly closed when not in use. Do not store in direct sunlight. Avoid storing above 120°F (49°C). Do not store near oxidizing agents. Do not store in zinc, aluminum, aluminum alloys, or plastic.

**SECTION 8: EXPOSURE CONTROLS and PERSONAL PROTECTION**

**Engineering Controls**

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.

**Personal Protection**

Inhalation A respiratory protection program that meets OSHA's 29 CFR 1910.134 or ANSI Z88.2 requirements must be followed whenever workplace conditions warrant respirator use. Use of an organic vapor mask or respirator is recommended.

Skin Wear chemical resistant gloves such as: rubber, nitrile, neoprene, or latex when skin contact is possible. Protective clothing including gloves, apron, sleeves, boots, head and face protection should be worn depending on how the product is used. PPE should be cleaned thoroughly after each use.

Eyes Penetone recommends always wearing safety glasses as a minimum in any workplace. Conditions may warrant the use of chemical goggles and possibly a face shield. Consult your standard operating procedure or safety professional for advice. Use protective eye and face devices that comply with ANSI Z87.1-1987.

**Additional Remarks**

Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the hazards and/or potential hazards that may be encountered during use.

**Occupational Exposure Limits**

Component Name	Source	Value	Type	Notation
Methylene chloride	ACGIH	50 ppm	TWA	A3; BEI
	NIOSH			Ca Appendix C
	OSHA Z2	25 ppm	TWA	see 1910.1052
		125 ppm	STEL	
Formic acid	ACGIH	5 ppm	TWA	
		10 ppm	STEL	
	NIOSH	5 ppm	TWA	
	OSHA	5 ppm	TWA	
<b>Biological Exposure Limits</b>				
Methylene chloride	ACGIH	0.30 mg/l	Urine	End of shift (as soon as possible after exposure ceases)

**SECTION 9: PHYSICAL & CHEMICAL PROPERTIES**

**Appearance:** Light pink to purple liquid

**Odor:** Sharp odor

**Odor Threshold:** Not determined

**pH:** Not applicable

**Melting Point / Freezing:** not determined

**Boiling Point / Boiling Point Range:** initial about 104°F

**Flash Point:** None to boiling point, Tag closed cup

**Evaporation Rate:** about 0.3 (acetone =1)



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**Flammability:** Not applicable  
**Lower Flammable Limit:** Not determined  
**Upper Flammable Limit:** Not determined  
**Explosive Properties:** Not applicable  
**Vapor Pressure:** 353 mm Hg @ 20°C  
**Relative Vapor Density:** 3  
**Relative Density:** 1.26 at 75°F  
**Solubility (Water):** will emulsify  
**Partition Coefficient (P<sub>ow</sub>):** Not determined  
**Auto-ignition temperature:** Not determined  
**Decomposition temperature:** Not available  
**Viscosity:** less than 5 centipoise at room temperature

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**SECTION 10: STABILITY & REACTIVITY**

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**Reactivity**

No data available.

**Chemical Stability**

Stable under recommended storage conditions.

**Hazardous Reactions**

Hazardous polymerization will not occur.

**Conditions to Avoid**

Exposure to elevated temperatures can cause product to decompose. Avoid open flames, welding arcs, or other high temperature sources which induce thermal decomposition. Avoid direct sunlight or ultraviolet sources.

**Incompatible Materials**

Alkali metals. Aluminum, strong oxidizing agents. Bases, amines, magnesium, strong acids and strong bases, vinyl compounds.

**Hazardous Decomposition Products**

Smoke, fumes, and oxides of carbon, chlorine, sulfur, hydrogen chloride and traces of phosgene and chlorine when heated and burned.

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**SECTION 11: TOXICOLOGICAL INFORMATION**

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**Product Summary**

This product contains methylene chloride and formic acid. The combination is very corrosive to all tissues. Contact with skin and/or eyes, ingestion, or inhalation of spray mist may be corrosive. Possible effects include severe irritation, burns, and permanent damage to exposed tissues if immediate action is not taken.

**Acute Toxicity:**

- Dermal:** LD50 >2,000 mg/kg rat (estimated using additivity formula)
- Inhalation:** no data available
- Oral:** LD50 about 1,400 mg/kg rat (estimated using additivity formula)

**Skin Corrosion/Irritation**

Corrosive to skin, Based upon component data.



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**Serious Eye Damage/Irritation**

Corrosive to eyes. Based upon component data.

**Sensitization - Respiratory or Skin**

No data available

**Germ Cell Mutagenicity**

For methylene chloride: Rat, DNA damage

**Specific Target Organ Effects - Single Exposure**

May cause respiratory irritation. May cause drowsiness or dizziness.

**Specific Target Organ Effects - Repeated or Prolonged Exposure**

Inhalation: May cause damage to the central nervous system through prolonged or repeated exposure.

Oral: May cause damage to the liver and blood through prolonged or repeated exposure.

**Chronic Toxicity**

no data available

**Carcinogenicity**

For methylene chloride:

Carcinogenicity - rat - inhalation

Tumorigenic: Carcinogenic by RTECS criteria. Endocrin: Tumores

Limited evidence of carcinogenicity in animal studies.

Suspected human carcinogen

ACGIH: Group A3: Confirmed animal carcinogen with unknown relevance to humans. Available evidence does not suggest that the agent is likely to cause cancer in humans except under uncommon or unlikely routes or levels of exposure

IARC: Group 2B: Possibly carcinogenic to humans

NTP: Reasonably anticipated to be a human carcinogen

OSHA: OSHA specifically regulated carcinogen

**Reproductive/Developmental Toxicity**

No data available

**Aspiration Hazard**

No data available

**Other**

Methylene chloride is metabolized in the body producing carbon monoxide which increases and sustains carboxyhemoglobin levels in the blood, reducing the oxygen-carrying capacity of the blood. Acts as a simple asphyxiant by displacing air. High air concentrations may produce anesthetic effects, difficulty in breathing, headache, dizziness. Ingestion may cause gastrointestinal discomfort, central nervous system depression, paresthesia, drowsiness, convulsions, conjunctivitis, pulmonary edema. Effects may be delayed. Irregular breathing, stomach/intestinal disorders, nausea, vomiting, increased liver enzymes, weakness.

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**SECTION 12: ECOLOGICAL INFORMATION**

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**Product Summary**

Product contains formic acid and will lower the pH of water. Product would be considered toxic to aquatic organisms. (Acute aquatic toxicity Category 3 by European Union classification).

**Ecotoxicity**

LC50/EC50 10-100 mg/l (estimated using additivity formula)

**Persistence and Degradability**

For methylene chloride: Less than 26%, not readily biodegradable (OEC D Test Guideline 301C).



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For formic acid: >90%

**Bioaccumulative Potential**

Bioaccumulation potential considered low based upon component data.

**Mobility in soil**

No data available

**Other Adverse Effects**

None known

**SECTION 13: DISPOSAL CONSIDERATIONS**

Product as received is a listed hazardous RCRA waste. Dispose of contents/container in accordance with all applicable federal, state, and local regulations.

**Note:** Contaminated product, soil, water, container residues and spill cleanup materials may be hazardous wastes. Appropriate hazardous waste designation is the responsibility of the user.

**SECTION 14: TRANSPORT INFORMATION**

**ID No.:** UN1760  
**Proper Shipping Name:** CORROSIVE LIQUID, N.O.S., (contains dichloromethane and formic acid)  
**Hazard Class:** 8, (6.1)  
**Packing Group:** I  
**Marine Pollutant:** Yes  
**RQ:** 1000 lb MeCl<sub>2</sub>  
 5000 lb formic  
**Special Precautions:** None

**SECTION 15: REGULATORY INFORMATION**

**TSCA**  
 The ingredients in this product are listed on the TSCA inventory.

**RCRA HAZARD CLASS**  
 U080 for methylene chloride and U123 for formic acid. Other categories may apply.

**SARA 311/312 REPORTABLE HAZARD CATEGORIES:** Immediate (Acute) and Delayed (Chronic) Health

**REPORTING REQUIREMENTS** (all quantities in pounds)

Component	CAS / 313 Code	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ (1)	Section 313	CAA 112(r) TQ	CWA / OPA
Methylene chloride	75-09-2			1,000	313		
Product RQ for component				1,400 135 gal			
Formic acid	64-18-6			5,000	313		



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Product RQ for component				25,000 2,300 gal			
(1) Releases exceeding the RQ just be reported to the National Response Center, 800-424-8802 and may be subject to state and local reporting.							

**NEW JERSEY RIGHT-TO-KNOW INFORMATION**

This product contains methylene chloride (CAS# 75-09-2), formic acid (CAS# 64-18-6), dodecylbenzene sulfonic acid (CAS# 27176-87-0), aromatic hydrocarbons (CAS# 64742-94-5), and paraffin wax (CAS# 8002-74-2).

**CALIFORNIA PROPOSITION 65 INFORMATION**

This product contains a chemical recognized by the state of California to cause cancer: methylene chloride (CAS# 75-09-2).

**SCAQMD INFORMATION**

Is there a photochemically reactive material present? No  
 What is the % by volume of photochemically reactive material? 0  
 What is the VOC content? 0 (methylene chloride is not defined as a VOC)  
 What is the vapor pressure of VOC's? 0

**SECTION 16: OTHER INFORMATION**

**REVISION SUMMARY**

New GHS format

**SUPERSEDES ISSUE DATE**

February 27, 2004

**HAZARD RATING SYSTEMS:**

	<u>HMIS</u>	<u>NFPA</u>
HEALTH	3	3
FLAMMABILITY	0	0
REACTIVITY	0	0
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**KEY**  
 4 = Severe  
 3 = Serious  
 2 = Moderate  
 1 = Slight  
 0 = Minimal

FOR ADDITIONAL PRODUCT INFORMATION, CONTACT YOUR SALES ENGINEER  
 FOR ADDITIONAL HEALTH/SAFETY INFORMATION, CALL 201-567-3000

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