

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Norsolv** CAS# 64742-88-7  
Trade Names: Mineral Spirits (Low Aromatic <2%), Stoddard  
Solvent / Aliphatic Hydrocarbon  
Product description: 105°F Flash Parts Washer Solvent

**RESPONSIBLE PARTY:** Northland Products Company  
1000 Rainbow Drive  
Waterloo, IA 50704  
319-234-5585, 1-800-772-1724

**EMERGENCY TELEPHONE NUMBERS:**  
Chemtrec: 1-800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

	wt. Percent	CAS Registry #	ppm PEL (OSHA)	ppm TWA (ACGIH)
Stoddard Solvent / Aliphatic hydrocarbons	100	Mixture	500	100

3. HAZARD IDENTIFICATION

**Emergency Overview:**

Clear, Blue, Liquid.  
Health studies have shown that petroleum hydrocarbons pose potential human health risks which may vary from person to person. Exposure to liquids, mists, vapors and fumes should be minimized.

**POTENTIAL HEALTH EFFECTS:**

**INHALATION:**

High Vapor concentrations may be irritating to the Respiratory tract and may cause nausea, dizziness, headaches, impaired coordination and even death.

**EYE CONTACT:**

May cause slight to moderate eye irritation with stinging, tearing or redness.

**SKIN CONTACT:**

May cause skin irritation. Discontinue use if irritation persists. No significant absorption hazards. May cause dermatitis.

**INGESTION:**

Low order of acute oral toxicity. May cause irritation to the throat, nausea, vomiting, myocardial injury with arrhythmias. Aspiration into lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possible death.

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3. HAZARD IDENTIFICATION (Continued)

OTHER:

Persons with severe skin, lung, heart or central nervous system disorders may be at increased risk for susceptibility to the effects of exposure.

Hazardous Material Identification System (HMIS):

Health-1\*, Flammability-2, Reactivity-0 (Based on components)

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4. FIRST AID MEASURES

INHALATION:

Remove the victim from the area to fresh air. Call a physician. Give oxygen if victim is breathing hard.

EYE CONTACT:

Flush eyes with large amounts of water immediately for 15 minutes or until irritation subsides. If irritation persists, get medical attention.

SKIN CONTACT:

Wash affected areas thoroughly with soap and water. Remove contaminated clothing and wash them before wearing again. Call a physician if irritation persists.

INGESTION:

Call a doctor immediately. Do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to avoid aspiration into the lungs. Get medical advise immediately.

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5. FIRE FIGHTING MEASURES

Flash point : 104F Minimum (TCC)  
UEL : 8.9 %  
LEL : 0.6 %  
Auto-ignition Temperature : 446°F to 450°F (Approximate)

GENERAL HAZARD:

May release vapors that form flammable mixtures when temperatures are at or above the flash point. Toxic gases will form upon combustion. Vapors are heavier than air and may travel some distance to an ignition source causing it to flash back. This product is COMBUSTIBLE!

FIRE FIGHTING INSTRUCTIONS:

Either allow fire to burn out under controlled conditions or extinguish with foam, CO<sub>2</sub>, or dry chemical. Try to cover liquid spills with foam. Shut off fuel to fire if possible to do so without hazard.

FIRE FIGHTING EQUIPMENT:

NIOSH approved self-contained breathing apparatus and full bunker gear is required for fire fighting personnel on all indoor fires and any significant outdoor fires.

HAZARDOUS COMBUSTION PRODUCTS:

Smoke, fumes, carbon monoxide, carbon dioxide and water.

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

Health-1, Flammability-2, Reactivity-0 (Based on components)

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**6. ACCIDENTAL RELEASE MEASURES**

Notify the appropriate authorities immediately. Take all actions necessary to prevent adverse effects of the spill. Eliminate ignition sources. Shut off leak if safe to do so. Dike spilled liquid with sand/earth and dispose of properly. DO NOT use sawdust or other combustible materials. Prevent product from entering sewers or waterways.  
National Response Center 1-800-424-8802

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**7. HANDLING AND STORAGE**

STORAGE TEMPERATURE: Ambient      STORAGE PRESSURE: Atmospheric

**GENERAL:**

Keep container closed. Loosen closure cautiously before opening. Store in well ventilated area away from incompatible materials. (See Section 10) Keep away from heat, sparks and flames. Empty container may still retain hazardous properties. Do not store above 120°F. Ground containers when transferring.

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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**ENGINEERING CONTROLS:**

Use mechanical ventilation to control vapor concentrations in confined spaces or where vapors can accumulate.

**PERSONAL PROTECTION:**

**Respirator:**

Use an air supplied respirator when concentrations are over the exposure limits.

**Protective Clothing:**

Wear rubber gloves, rubber boots, a chemical worker's suit and chemical splash goggles as appropriate.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

Boiling point	: 315°F to 392°F
Vapor pressure	: 1.8 to 2.6 mmHG @ 20°C
Vapor density	: 4.8 to 4.9 (Air equals 1)
Solubility in water	: Negligible, less than 0.1 %
Specific gravity	: 0.78
pH	: Essentially neutral
% Volatile	: 100 %Wt
VOC	: 100 %Wt
VOC	: 6.5 Lbs/Gal

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**10. STABILITY AND REACTIVITY**

**GENERAL:**

This product is stable and will not polymerize.

**INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:**

Avoid strong oxidizing agents, chlorine and all sources of heat, sparks or flame.

**HAZARDOUS DECOMPOSITION:**

None.

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11. TOXICOLOGICAL INFORMATION

No component of this product present at levels greater than 0.1% is identified as a carcinogen by NTP, IARC or OSHA.

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12. ECOLOGICAL INFORMATION

Using Rainbow Trout, similar naphthas showed a 96-hour TLM (Median Toxic Limit) from 10 ppm to 20 ppm in ambient saltwater. 24-hour TLms resulted in 2,990 ppm and 200 ppm when using Bluegill Sunfish and juvenile American Shad respectively. Based upon actual spill incident investigations, similar naphthas have been shown to bioaccumulation tissue of various fish from 1 ppm to 10 ppm levels.

This naphtha is potentially toxic to freshwater and saltwater ecosystems. It will normally float on water with its lighter components evaporating rapidly. In stagnant or slow-flowing waterways, a naphtha hydrocarbon layer can cover a large surface area. As a result, this layer might limit or eliminate natural atmospheric oxygen transport into the water. With time, if not removed, oxygen depletion in the waterway might be enough to cause a fish kill or create an anaerobic environment. Potable water and boiled feed water systems should never be allowed more than 5 ppm contamination of this material.

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13. DISPOSAL CONSIDERATIONS

Reclaim (Recycle) solvent. Ensure disposal is in compliance with Federal-State-Local laws. Do not landfill or dispose of in sink drains or sewers.

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14. TRANSPORTATION INFORMATION

DOT (Department of Transportation):

Proper shipping name	: Combustible Liquid, N.O.S. (Petroleum Naphtha)
Hazard class	: 3
Identification number	: NA1993
Packaging Group	: Group III
Labeling	: Combustible Liquid
EPA Hazardous Substances	: D001, D018

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15. REGULATORY INFORMATION

TSCA (Toxic Substance Control Act):

All components of this product are listed on the U.S. TSCA inventory.

CERCLA (Comprehensive Response Compensation, and Liability Act):

This product is not subject to any special reporting under the requirements of CERCLA. We recommend you contact local authorities to determine local reporting requirements.

SARA TITLE III (Superfund Amendments and Reauthorization Act):

311/312 Hazard Categories:

This material is defined as hazardous by OSHA under 29 CFR part 1910.1200(d).

313 Reportable Ingredients:

Contains no reportable compounds.

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16. OTHER INFORMATION

LD50 Oral : Rat: >34,600 mg/kg (Similar Product)  
LD50 Skin : Rabbit: >15,400 mg/kg (Similar Product)  
LC50 Inhalation : Rat: >21,400 mg/m<sup>3</sup>/4hr (Similar Product)

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