

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Norsolv HFP** CAS# 64742-88-7
Trade Names: Solvent Naphtha (Petroleum), Medium Aliphatic
Product description: Hydrocarbon Parts Washer Solvent

RESPONSIBLE PARTY: **EMERGENCY TELEPHONE NUMBERS:**
Northland Products Company Chemtrec: 1-800-424-9300
1000 Rainbow Drive
Waterloo, IA 50704
319-234-5585, 1-800-772-1724

2. COMPOSITION/INFORMATION ON INGREDIENTS

	wt. Percent	CAS Registry #	ppm PEL (OSHA)	ppm TLV (ACGIH)
Solvent Naphtha (Petroleum) Medium Aliphatic / Aliphatic Hydrocarbon	100	Mixture	100	100

3. HAZARD IDENTIFICATION

Emergency Overview:

Clear, Colorless, 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.

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)

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 advice immediately.

5. FIRE FIGHTING MEASURES

Flash point : 142°F (TCC)
Upper Flammability limit : 6.0 - 9.3 %
Lower Flammability limit : 0.8 - 1.4 %
Auto-ignition Temperature : >392°F

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, CO₂, or dry chemical. Try to cover liquid spills with foam. Shut off fuel to fire if possible to do so without hazard.

5. FIRE FIGHTING MEASURES (Continued)

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)

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. Reclaim Solvent. National Response Center 1-800-424-8802

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.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling point	: 365°F to 430°F
Vapor pressure	: 0.23 - 0.29 mmHG @ 20°C
Vapor density	: 5.1 - 5.3 (Air equals 1)
% Volatility	: 100%
Evaporation Rate	: 0.04 - 0.1 (nBuAc = 1)
Solubility in water	: Negligible, less than 0.1 %
Specific gravity	: 0.79 @ 60°F
pH	: Essentially neutral
Odor	: Typical Hydrocarbon odor
Appearance	: Clear Blue
Physical state	: Liquid

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.

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.

12. ECOLOGICAL INFORMATION

No data is available.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORTATION INFORMATION

DOT (Department of Transportation):

Proper shipping name	: Combustible Liquid, N.O.S. (Contains Petroleum Naphtha)
Hazard class	: Combustible Liquid
Identification number	: NA 1993
Packaging Group	: Group III
Labeling	: Not Applicable

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). (H-1, H-2, P-3)

313 Reportable Ingredients:

Contains no reportable compounds.

16. OTHER INFORMATION

LD50 Oral : Rat: >25 ml/kg (Similar Product)
LD50 Skin : Rabbit: >5ml/kg (Similar Product)
LC50 Inhalation : Rat: >710 ppm/4hr (Similar Product)

THE INFORMATION PRESENTED HEREIN HAS BEEN COMPILED FROM SOURCES CONSIDERED TO BE DEPENDABLE AND IS ACCURATE TO THE BEST OF NORTHLAND PRODUCTS COMPANY'S KNOWLEDGE; HOWEVER, NORTHLAND PRODUCTS COMPANY MAKES NO WARRANTY WHATSOEVER, EXPRESSED OR IMPLIED, OF MERCHANTABILITY OR FITNESS FOR THE PARTICULAR PURPOSE, REGARDING THE ACCURACY OF SUCH DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. NORTHLAND PRODUCTS COMPANY ASSUMES NO RESPONSIBILITY FOR THE INJURY TO THE RECIPIENT OR TO THIRD PARTY PERSONS OR FOR ANY DAMAGE TO ANY PROPERTY AND RECIPIENT ASSUMES ALL SUCH RISKS.