

SECTION 1: Identification**1.1. Identification**

Product form : Substance
Substance name : Mineral Spirits Low End Point (LEP)
CAS No : 64742-47-8
Synonyms : distillates (petroleum), hydrotreated light / Stoddard Solvent / Mineral Spirits / Quick-Drying mineral spirits / Short-range mineral spirits / Type IVC Mineral Spirits / Kwik Dri /

1.2. Relevant identified uses of the substance or mixture and uses advised against

Industrial Use
Solvent

1.3. Details of the supplier of the safety data sheet

Atlanta Branch Office	Spartanburg Branch Office
Whitaker Oil Company	Whitaker Chemicals LLC
1557 Marietta Road NW	405 John Dodd Road
Atlanta, GA 30318	Spartanburg, SC 29303
404-355-8220 (t)	864-578-6968 (t)
404-355-2436 (f)	864-578-6864 (f)

WEBSITE: www.whitakeroil.com

EMAIL: SDS@whitakeroil.com

1.4. Emergency telephone number

Emergency number : CHEMTREC (800)-424-9300

SECTION 2: Hazard(s) Identification**2.1. Classification of the substance or mixture**

GHS-US classification

Flam. Liq. 3 H226 - Flammable liquid and vapor
STOT SE 3 H336 - May cause drowsiness or dizziness
Asp. Tox. 1 H304 - May be fatal if swallowed and enters airways

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)



GHS02 GHS07 GHS08

: Danger

Signal word (GHS-US)

Hazard statements (GHS-US)

: H226 - Flammable liquid and vapor
H304 - May be fatal if swallowed and enters airways
H336 - May cause drowsiness or dizziness

Precautionary statements (GHS-US)

: P210 - Keep away from hot surfaces: heat, open flames, sparks. - No smoking
P233 - Keep container tightly closed
P240 - Ground/bond container and receiving equipment
P241 - Use explosion-proof electrical, lighting, ventilating equipment
P242 - Use only non-sparking tools
P243 - Take precautionary measures against static discharge
P261 - Avoid breathing mist, vapors
P271 - Use only outdoors or in a well-ventilated area
P280 - Wear eye protection, face protection, protective clothing, protective gloves
P301+P310 - If swallowed: Immediately call a POISON CENTER or doctor/physician.
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
P312 - Call a POISON CENTER or doctor/physician if you feel unwell
P331 - Do NOT induce vomiting

Mineral Spirits Low End Point (LEP)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

- P370+P378 - In case of fire. Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P403+P235 - Store in a well-ventilated place. Keep cool
P405 - Store locked up
P501 - Dispose of contents/container in accordance with local, regional, national, and/or international regulations.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substance

Name : Mineral Spirits Low End Point (LEP)
CAS No : 64742-47-8

Name	Product identifier	%	GHS-US classification
n-nonane	(CAS No) 111-84-2	1 - 5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 1, H410

Full text of H-phrases: see section 16

3.2. Mixture

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation

: Remove person to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that gas or vapor is still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

First-aid measures after skin contact

: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

First-aid measures after eye contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

First-aid measures after ingestion

: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Aspiration hazard if swallowed. Can enter lungs and cause. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after Eye Contact

: May cause eye irritation.

Symptoms/injuries after Inhalation

: Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness.

Symptoms/injuries after Skin Contact

: Causes skin irritation

Symptoms/injuries after Ingestion

: Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways. Irritating to mouth, throat and stomach.

4.3. Indication of any immediate medical attention and special treatment needed

If ingested, this material presents a significant aspiration and chemical pneumonitis hazard. Induction of emesis is not recommended. Consider activated charcoal and/ or gastric lavage. If patient is obtunded, protect the airway by cuffed endotracheal intubation or by placement of the body in a Trendelenburg and left lateral decubitus position.

Treat symptomatically and supportively.

Mineral Spirits Low End Point (LEP)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 5. Firefighting measures

5.1. Extinguishing media

- : Use dry chemical, Carbon Dioxide (CO2), water spray (fog) or foam .
- : Do not use water jet.

Unsuitable extinguishing media

5.2. Special hazards arising from the substance or mixture

Fire hazard

- : Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

5.3. Advice for firefighters

- : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive-pressure mode.

Special protective equipment for fire-fighters

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures

- : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

6.1.2. For emergency responders

Protective equipment

- : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel

6.2. Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods and materials for containment and cleaning up

- : Small Spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large Spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 waste disposal.

Other information

- : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8 : Exposure-controls/personal protection".

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

- : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapors/spray.

Mineral Spirits Low End Point (LEP)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Hygiene measures

: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures

: Ground/bond container and receiving equipment.

Storage conditions

: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Bulk Storage Conditions: Maintain all storage tanks in accordance with applicable regulations. Use necessary controls to monitor tank inventories. Inspect all storage tanks on a periodic basis. Test tanks and associated piping for tightness. Maintain the automatic leak detection devices to assure proper working condition.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

n-hexane (111-84-2)	ACGIH TWA (ppm)	200 ppm
ACGIH	ACGIH TWA (ppm)	200 ppm
ACGIH	Remark (ACGIH)	CNS impair

8.2. Exposure controls

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Hand protection

: Chemical-resistant gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers.

Eye protection

: Safety glasses equipped with side shields are recommended as minimum protection in industrial settings. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: Splash goggles. Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Chemical splash goggles. If inhalation hazards exist, a full-face respirator may be required instead.

Skin and body protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Use a properly fitted, air-purifying or supplied respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected of the selected respirator.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, vapor controls, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

: Liquid

Color

: Colorless

Odor

: Characteristic hydrocarbon solvent odor

pH

: No data available

Melting point

: -58 °C (-72.4 °F)

Boiling point/ range

: 159 – 179 °C (318.2 – 354.2 °F)

Flash point

: 41 °C (105.8 °F)

Relative evaporation rate (butyl acetate=1)

: <1

Mineral Spirits Low End Point (LEP)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Flammability (solid, gas) : No data available
Lower and upper explosive (flammable) limits : Lower: 0.6%
Upper: 5.5%
Explosive properties : No data available
Gravity, °API : Estimated 50 @60 F
Vapor pressure : 0.4 kPa (3 mm Hg)
Relative density : 0.78
Vapor density : 4.5 [Air=1]
Solubility : Very slightly soluble in the following materials: cold water.
1.5 g/l
Density lbs/ gal : Estimated 6.5 lbs/ gal
Auto-ignition temperature : 236 °C (456.8 °F)
Conductivity : <5 picosiemens/ meter (unadditized)
Viscosity : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Not expected to be Explosive, Self-Heating, or an Organic Peroxide under US GHS Definition(s).

10.2. Chemical stability

The product is stable

10.3. Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4. Conditions to avoid

Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld braze, solder, drill, grind or exposed containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.

10.5. Incompatible materials

Reactive or incompatible with the following materials : oxidizing materials

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Mineral Spirits Low End Point (LEP) (64742-47-8)	
LD50 oral rat	> 3160 mg/kg
n-nonane (111-84-2)	
LD50 oral rat	> 15000 mg/kg (Rat; Literature)
LC50 inhalation rat (mg/l)	17 mg/l/4h (Rat; Literature)
LC50 inhalation rat (ppm)	3200 ppm/4h (Rat; Literature)
ATE US (gases)	3200.000 ppmV/4h
ATE US (vapors)	17.000 mg/l/4h
ATE US (dust, mist)	17.000 mg/l/4h
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified

Mineral Spirits Low End Point (LEP)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

- Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
Specific target organ toxicity (single exposure) : May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure) : Not classified
Aspiration hazard : May be fatal if swallowed and enters airways.
Symptoms/injuries after ingestion : Risk of lung edema.

SECTION 12: Ecological Information

12.1. Toxicity

Ecology – general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Ecology – water : Mild water pollutant (surface water).

n-nonane (111-84-2)	
LC50 fish 2	1 – 10 mg/l (LC50; 96 h; Pisces)

12.2. Persistence and degradability

n-nonane (111-84-2)	
Persistence and degradability	Forming sediments in water. Biodegradable in the soil. Adsorbs into the soil.
BOD (% of ThOD)	1.1 (1 days)

12.3. Bioaccumulative potential

n-nonane (111-84-2)	
BCF fish 1	8118 (BCF)
Log Pow	5.65 (Experimental value)
Bioaccumulative potential	Bioaccumable.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on the global warming : No known ecological damage caused by this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations

: Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals.

SECTION 14: Transport Information

Department of Transportation (DOT)

In accordance with DOT

Transport document description

: UN1268 Petroleum distillates, n.o.s., 3, III

UN-No. (DOT)

: UN1268

Proper Shipping Name (DOT)

: Petroleum distillates, n.o.s.

Transport hazard class(es) (DOT)

: 3 – Class 3 – Flammable and combustible liquid 49 CFR 173.120

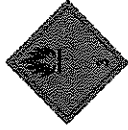
Mineral Spirits Low End Point (LEP)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Hazard labels (DOT)

: 3 – Flammable liquid



Packing group (DOT)

: III – Minor Danger

DOT Packaging Non Bulk (49 CFR 173.xxx)

: 203

DOT Packaging Bulk (49 CFR 173.xxx)

: 242

DOT Special Provisions (49 CFR 172.102)

: 144 – If transported as a residue in an underground storage tank (UST), as defined in 40 CFR 280.12, that has been cleaned and purged or rendered inert according to the American Petroleum Institute (API) Standard 1604 (IBR, see 171.7 of this subchapter), then the tank and this material are not subject to any other requirements of this subchapter. However, sediments remaining in the tank that meet the definition for a hazardous material are subject to the applicable regulations of this subchapter.

B1 – If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable.

IB3 – Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).

T4 – 2.65 178.274(d)(2) Normal..... 178.275(d)(3)

TP1 – The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees Celsius of the liquid during filling.

TP29 – A portable tank having a minimum test pressure of 1.5 bar (150.0 kPa) may be used provided the calculated test pressure is 1.5 bar or less based on the MAWP of the hazardous materials, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

DOT Packaging Exceptions (49 CFR 173.xxx) : 150

DOT Quantity Limitations Passenger aircraft/trail (49 CFR 173.27)

: 60 L

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)

: 220 L

DOT Vessel Stowage Location

: A – The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

Other information

: No supplementary information available.

TDG

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15. Regulatory information

15.1. US Federal regulations

Mineral Spirits Low End Point (LEP) (64742-47-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

SARA 311/312 Fire Hazard. Immediate (acute) health hazard.

n-nohane (111-84-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA Regulatory Flag

T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.

15.2. International regulations

CANADA

No additional information available

Mineral Spirits Low End Point (LEP)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 56 / Monday, March 26, 2012 / Rules and Regulations

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

n-nonane (111-84-2)

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - New York - Right to Know Hazardous Substance List

U.S. - Massachusetts - Right to Know Hazardous Substance List

U.S. - Pennsylvania - Right to Know Hazardous Substance List

California Prop. 65 – **WARNING:** This product contains less than 0.1% of a chemical known to the State of California to cause cancer.
WARNING: This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

SECTION 16: Other information

Revision date

: 12/23/2015

Full text of H-phrases:

Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Asp. Tox. 1	Aspiration hazard Category 1
Flam. Liq. 3	Flammable liquids Category 3
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H226	Flammable liquid and vapor
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H336	May cause drowsiness or dizziness
H410	Very toxic to aquatic life with long lasting effects

NFPA Ratings

Reactivity - 0

SDS US (GHS HazCom 2012)

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