

SAFETY DATA SHEET

Date Printed: 04/28/2024

Date Revised: 01/15/2022

SECTION 1. IDENTIFICATION

Product Identifier: (5N) 99.999% Lead Naphthenate

Product Code: PB-NAPH-05

CAS Number: 61790-14-5

Relevant identified uses of the substance: Scientific research and development

Supplier details:

American Elements
10884 Weyburn Ave.
Los Angeles, CA 90024
Tel: +1 310-208-0551
Fax: +1 310-208-0351
Emergency telephone number:
+1 800-424-9300

SECTION 2. HAZARDS IDENTIFICATION

Classification:

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids Category 3

Acute oral toxicity Category 4

Acute Inhalation Toxicity - Vapors Category 4

Germ Cell Mutagenicity Category 1B

Carcinogenicity Category 1B

Reproductive Toxicity Category 1A

Specific target organ toxicity - (repeated exposure) Category 1

Aspiration Toxicity Category 1

Signal Word: Danger

Hazard Statements:

Flammable liquid and vapor

Harmful if swallowed

May be fatal if swallowed and enters airways

Harmful if inhaled

May cause genetic defects

May cause cancer

May damage the unborn child. Suspected of damaging fertility

Causes damage to organs through prolonged or repeated exposure



Precautionary Statements

Prevention:

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Use only outdoors or in a well-ventilated area

Do not breathe dust/fume/gas/mist/vapors/spray

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

Use only non-sparking tools

Take precautionary measures against static discharge

Response:

IF exposed or concerned: Get medical attention/advice

Inhalation:

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Skin:

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

Ingestion:

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Do NOT induce vomiting

Rinse mouth

Fire:

In case of fire: Use CO₂, dry chemical, or foam for extinction

Storage:

Store locked up

Store in a well-ventilated place. Keep cool

Disposal:

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC):

Very toxic to aquatic life with long lasting effects

Repeated exposure may cause skin dryness or cracking

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component / CAS-No:

Lead naphthenate / 61790-14-5

Stoddard solvent / 8052-41-3

SECTION 4. FIRST AID MEASURES

General Advice:

If symptoms persist, call a physician.

Eye Contact:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical

attention.

Skin Contact:

Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.

Inhalation:

Move to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.

Risk of serious damage to the lungs.

Ingestion:

Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting. Call a physician or Poison Control Center immediately. If vomiting occurs naturally, have victim lean forward.

Most important symptoms and effects:

Breathing difficulties. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

Notes to Physician:

Treat symptomatically

SECTION 5. FIREFIGHTING MEASURES

Suitable Extinguishing Media:

Cool closed containers exposed to fire with water spray.

Unsuitable Extinguishing Media:

No information available

Flash Point 40 °C / 104 °F

Method - No information available

Autoignition Temperature: No information available

Explosion Limits

Upper No data available

Lower No data available

Sensitivity to Mechanical Impact No information available

Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical:

Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air.

Vapors may travel to source of ignition and flash back. Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous Combustion Products:

None known

Protective Equipment and Precautions for Firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA:

Health

3

Flammability

2

Instability

Physical hazards

-

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Ensure adequate ventilation. Use personal protective equipment. Remove all sources of ignition. Take precautionary measures against static discharges.

Environmental Precautions:

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

Methods for Containment and Clean Up:

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

SECTION 7. HANDLING AND STORAGE

Handling:

Wear personal protective equipment. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Take precautionary measures against static discharges.

Storage:

Store under an inert atmosphere. Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Component: Lead naphthenate

ACGIH TLV:

OSHA PEL:

NIOSH IDLH: IDLH: 100 mg/m³ TWA: 0.050 mg/m³

Mexico OEL (TWA):

Component: Stoddard solvent

ACGIH TLV: TWA: 100 ppm

OSHA PEL: (Vacated) TWA: 100 ppm; (Vacated) TWA: 525 mg/m³; TWA: 500 ppm; TWA: 2900 mg/m³

NIOSH IDLH: IDLH: 20000 mg/m³ TWA: 350 mg/m³ Ceiling: 1800 mg/m³

Mexico OEL (TWA): TWA: 100 ppm; TWA: 523 mg/m³ STEL: 200 ppm; STEL: 1050 mg/m³

Engineering Measures:

Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting/equipment.

Personal Protective Equipment

Eye/face Protection:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection:

Long sleeved clothing.

Respiratory Protection: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures:

Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Liquid
Appearance Brown
Odor oily
Odor Threshold No information available
pH No information available
Melting Point/Range No data available
Boiling Point/Range No information available
Flash Point 40 °C / 104 °F
Evaporation Rate No information available
Flammability (solid,gas) Not applicable
Flammability or explosive limits
Upper No data available
Lower No data available
Vapor Pressure No information available
Vapor Density No information available
Specific Gravity 1.13 g/cm³
Solubility No information available
Partition coefficient; n-octanol/water No data available
Autoignition Temperature No information available
Decomposition Temperature No information available
Viscosity No information available

SECTION 10. STABILITY AND REACTIVITY

Reactive Hazard:
None known, based on information available
Stability:
Air sensitive.
Conditions to Avoid:
Keep away from open flames, hot surfaces and sources of ignition.
Incompatible Materials:
Strong oxidizing agents
Hazardous Decomposition Products:
None under normal use conditions
Hazardous Polymerization:
Hazardous polymerization does not occur.
Hazardous Reactions:
None under normal processing.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity
Product Information
Oral LD₅₀ Category 4. ATE = 300 - 2000 mg/kg. Dermal LD₅₀ Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. Vapor LC₅₀ Category 4. ATE = 10 - 20 mg/l.
Toxicologically Synergistic Products: No information available
Delayed and immediate effects as well as chronic effects from short and long-term exposure
Irritation: No information available

Sensitization: No information available
Carcinogenicity:
Component / CAS-No: Lead naphthenate / 61790-14-5
IARC: Not listed
NTP: Reasonably Anticipated
ACGIH: Not listed
OSHA: X
Mexico: Not listed
Component / CAS-No: Stoddard solvent / 8052-41-3
IARC: Not listed
NTP: Not listed
ACGIH: Not listed
OSHA: Not listed
Mexico: Not listed
Mutagenic Effects: No information available
Reproductive Effects: No information available.
Developmental Effects: No information available.
Teratogenicity: No information available.
STOT - single exposure None known
STOT - repeated exposure None known
Aspiration hazard: No information available
Symptoms / effects, both acute and delayed:
Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting
Endocrine Disruptor Information:
No information available
Other Adverse Effects:
The toxicological properties have not been fully investigated.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity:
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.
Persistence and Degradability: Immiscible with water
Bioaccumulation/ Accumulation: No information available.
Mobility: Is not likely mobile in the environment due its low water solubility.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods:
Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

SECTION 14. TRANSPORT INFORMATION

DOT
UN-No UN1993
Proper Shipping Name FLAMMABLE LIQUID, N.O.S. Proper technical name (lead naphthenate in mineral spirits)

Hazard Class 3
Packing Group III
TDG
UN-No UN1993
Proper Shipping Name FLAMMABLE LIQUID, N.O.S. Hazard Class 3
Packing Group III
IATA
UN-No UN1993
Proper Shipping Name FLAMMABLE LIQUID, N.O.S. Hazard Class 3
Packing Group III
IMDG/IMO
UN-No UN1993
Proper Shipping Name Flammable liquid, n.o.s. Hazard Class 3
Packing Group III

SECTION 15. REGULATORY INFORMATION

U.S. Federal Regulations
TSCA 12(b): Not applicable
SARA 313
Component: Lead naphthenate
CAS-No: 61790-14-5
Weight: 61.00 %
SARA 313 - Threshold Values: 1.0 %
CWA (Clean Water Act)
Component: Lead naphthenate
CWA - Hazardous Substances: -
CWA - Reportable Quantities: -
CWA - Toxic Pollutants: X
CWA - Priority Pollutant: -
Clean Air Act
Component: Lead naphthenate
HAPS Data: X
Class 1 Ozone Depletors:
Class 2 Ozone Depletors:
U.S. Department of Transportation
Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N
U.S. Department of Homeland Security:
This product does not contain any DHS chemicals.

16. OTHER INFORMATION

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED

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