

IN CASE OF TRANSPORTATION EMERGENCY CONTACT:

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## 1. IDENTIFICATION

CAS # 8052-41-3

### SYNONYMS:

Naphtha, stoddard solvent, mineral spirits, white spirit

### GENERIC CHEMICAL NAME:

Naphtha, high paraffinic, stoddard solvent, naphtha solvent

### PRODUCT TYPE:

Substance

## 2. HAZARDS IDENTIFICATION

### APPEARANCE:

COLORLESS LIQUID

### ODOR:

PETROLEUM SOLVENT

### SIGNAL WORD:

WARNING!  
FLAMMABLE LIQUID AND VAPOR  
STATIC ACCUMULATING LIQUID CAN BECOME ELECTROSTATIC ALLY  
IN BONDED AND GROUNDED EQUIPMENT; SPARKS MAY IGNITE LIQUID  
AND VAPOR MAY CAUSE FLASH FIRE  
HARMFUL IF SWALLOWED, CAN ENTER LUNGS AND CAUSE DAMAGE  
MAY CAUSE CHRONIC EFFECTS  
MAY CAUSE SKIN IRRITATION  
MAY CAUSE EYE IRRITATION  
MAY CAUSE RESPIRATORY TRACT IRRITATION  
PROLONGED SKIN CONTACT MAY CAUSE IRRITATION

### EXPOSURE ROUTES:

INHALATION, INGESTION, SKIN AND/OR EYE CONTACT

### PHYSICAL:

KEEP AWAY FROM HEAT, SPARKS AND FLAME. KEEP CONTAINER  
TIGHTLY CLOSED. USE ONLY WITH ADEQUATE VENTILATION.  
AVOID SPARK PROMOTERS. GROUND/BOND CONTAINER AND  
EQUIPMENT. THESE ALONE MAY BE INSUFFICIENT TO REMOVE  
STATIC ELECTRICITY

### EYES:

AVOID CONTACT WITH EYES. WASH THOROUGHLY AFTER HANDLING

SKIN: AVOID CONTACT WITH SKIN AND CLOTHING. WASH THOROUGHLY AFTER HANDLING

SYMPTOMS OF OVER EXPOSURE: IRRITATION TO EYES, NOSE, THROAT; DIZZINESS; DERMATITIS; CHEMICAL PNEOMONITIS (aspiration liquid)

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: PRE-EXISTING DISORDERS INVOLVING ANY TARGET ORGANS MENTIONED IN THIS MSDS ARE BEING AT RISK MAY BE AGGRAVATED BY OVER EXPOSURE TO THIS PRODUCT.

CHRONIC EFFECTS:

### 3. COMPOSITION

CAS #	COMPONENT	PERCENT
8052-41-3	STODDARD SOLVENT	100

#### HAZARDOUS CONSTITUENT(S) CONTAINED IN COMPLEX SUBSTANCES

CAS #	COMPONENT	PERCENT
100-41-4	ETHYL BENZENE	0.1
111-84-2	NONANE	1.0-8.0
25551-13-7	TRIMETHYL BENZENE (mixed isomers)	0.5-5.0

#### Component Regulatory Information

This product may be regulated, have exposure limits or other information identified as the following: Stoddard solvent, Ethyl Benzene, Nonane, Trimethyl Benzene (See Section 8)

### 4. FIRST AID MEASURES

#### EYES

Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

#### SKIN

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

#### INHALATION:

Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

#### INGESTION:

DO NOT INDUCE VOMITING. If conscious, rinse out mouth with water. Get medical attention immediately.

#### NOTE TO PHYSICIANS

No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

## 5. FIRE FIGHTING MEASURES

### Flammable Properties

This product is a flammable static accumulating liquid. Static accumulating liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor may cause flash fire. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Restrict flow velocity to avoid build-up of static charge. Refer to NFPA 77, API 2003, and CENELEC CLC/TR 50404 for further guidance.

### Extinguishing Media

Use dry chemical, CO<sub>2</sub>, water spray (FOG) or foam

### Specific Hazards Arising from Chemical

Elevated temperatures can lead to the formation of irritating fumes and vapors. Decomposition products may include the following materials: Carbon dioxide and Carbon monoxide.

### Protective Equipment and Precautions for Firefighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions

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.

### 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.

### Methods for Containment

Stop leak if without risk.

### Methods for Cleanup

Move containers from spill area. Approach release from upwind. Absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

## 7. HANDLING AND STORAGE

### Handling Procedures

Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Use non-sparking tools.

### Shipping and Storing Procedures

Store in accordance with local regulations. Store in a segregated and approved area. Keep in the original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials. Do not store in unlabeled containers. Store and use away from heat, sparks, open flame or any other ignition source. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers that retain product residue may be hazardous. Do not reuse container.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Component Exposure Limits

#### Stoddard Solvent

ACGIH TLV:	TWA:	100ppm		
OSHA PEL:	TWA:	500 ppm	TWA:	2900 mg/m <sup>3</sup>

NIOSH REL:	TWA:	N/A ppm	TWA:	350 mg/m3
NIOSH Ceiling:	1800 mg/m3 [15 minute]			
Ethyl Benzene ACGIH TLV:	TWA:	20 ppm	TWA:	N/A mg/m3
OSHA PEL:	TWA:	100 ppm	TWA:	435 mg/m3
Nonane ACGIH TLV:	TWA:	200 ppm		
Trimethyl Benzene (all isomers) ACGIH TLV:	TWA:	25 ppm		

N/A signifies not available.

#### ENGINEERING CONTROLS

This product is a static accumulating liquid. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Material should be handled in enclosed vessels and equipment. Use only in 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.

#### EYE/FACE PROTECTION

Chemical goggles or face shield

#### SKIN PROTECTION

Chemical resistant, impervious gloves complying with an approved standard should be worn at all times. Coveralls, apron, and boots as necessary to minimize contact.

#### RESPIRATORY PROTECTION

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicated this is necessary. Respirator selection must be based on known or anticipated exposure levels.

#### GENERAL HYGIENE

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Note: Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Please see the Product Specification Sheet for further information.

Appearance:	Colorless
Odor:	Petroleum solvent
Physical State:	Liquid
Flash Point (f):	105
Boiling Point (f):	>310
Vapor Pressure (mm Hg at 20°C):	0.62
Water Soluble:	NO

Specific Gravity (g/cc):	.77
Density (lbs/gal)	6.4
PH:	Not available

## 10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions. If heated, product's static accumulation will rise and could cause flash fire.
Polymerization:	No polymerization
Incompatibility:	Strong acids and oxidizing materials
Conditions to Avoid:	High temperatures, sparks, flames
Hazardous Decomposition Products:	Does not decompose at ambient temperatures

## 11. TOXICOLOGICAL INFORMATION

**Acute Exposure**  
Minimally toxic. Negligible hazards at ambient/normal handling temperatures.

**Respiratory Irritation**  
If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract. Based on data from components or similar materials.

**Eye Irritation**  
May cause eye irritation. Vapors formed from heating may cause eye irritation.

**Skin Irritation**  
May cause skin irritation

**Sensitization**  
Not expected to cause skin or respiratory sensitization.

**Component Analysis – LD50 / LC50**  
Acute Toxicity Estimate (ATE) Values for Product:

Inhalation LC50 Rat	21 mg/L 1 HR
Oral LD50 Rat	>7000 mg/kg
Dermal LD50 Rabbit	>2000 mg/kg

**Chronic Exposure**

**Target Organ Effects**  
Vapor/aerosol concentrations above recommended exposure levels are irritating to the eyes and respiratory tract, may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness and other central nervous system effects including death. Prolonged or repeated direct exposure to the skin results in symptoms of irritation and redness, dermatitis or oil acne.

Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.

#### Carcinogenicity

Contains Ethyl Benzene which is considered a carcinogen under IARC. It has caused cancer in laboratory animal studies. The relevance of these findings to humans is uncertain.

#### Mutagenicity

No data available to indicate product or any components present at greater than .1% are mutagenic or genotoxic.

#### Reproductive Toxicity

No data available to indicate either product or components present at greater than .1% that may cause reproductive toxicity.

#### Teratogenicity

No data available to indicate product or any components contained at greater than .1% may cause birth defects.

## 12. ECOLOGICAL INFORMATION

### Component Analysis- Ecotoxicity – Aquatic Life

Duration/T est/Species 96 Hr LC50	Concentrations/Conditions N/A mg/L
Pimephals promelas	
Degradability	Not determined
Bioaccumulation	Not determined
Soil Mobility	Not determined

## 13. DISPOSAL CONSIDERATIONS

### Disposal Instructions

The generation of waste should be avoided or minimized wherever possible. Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.

## 14. TRANSPORT INFORMATION

EMERGENCY RESPONSE GUIDE NUMBER: 128

U.S. DOT BULK (OVER 119 GALLONS)

UN 1268, PETROLEUM DISTILLATES , N.O.S. (Naphtha solvent), 3, PG III, combustible liquid

Bulk container must be labeled on two opposing sides

U.S. DOT Non-bulk (under 119 gallons)

Not regulated.....Exempt from labeling and placarding unless shipped via Air or Vessel

\*Truck/Rail car must be placarded on all 4 sides if aggregate gross weight exceeds 1,000 pounds

## 15. REGULATORY INFORMATION

SARA Extremely Hazardous

Substances (Sections 302 & 304)

This product does not contain greater than 1% of any "extremely hazardous substances" listed pursuant to Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) Section 302 or Section 304 as identified in 40 CFR Part 355, Appendix A and B.

SARA Section 313

This product contains the following components in concentrations greater than 0.1% for carcinogenic substances and/or 1.0% of the substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

- Ethyl Benzene (CASRN: 100-41-4): 0.1%
- 1,2,4 Trimethylbenzene (CASRN: 95-63-6): 2.7%

SARA Section 311 & 312 Classifications

- Acute Hazard: NO
- Chronic Hazard: YES
- Fire Hazard: YES
- Reactivity Hazard: NO

CERCLA

This product contains the following components listed under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) in 40 CFR Part 302, Table 302.4:

- Ethyl Benzene (CASRN: 100-41-4): 0.1% RQ=1,000 lbs.

CALIFORNIA PROP 65

This product contains chemical(s) known to the state of California to cause cancer and/or birth defects.

Clean Water Act / Oil Pollution Act

This product may be subject to regulation by Section 311 of the Clean Water Act and the Oil Pollution Act. Releases of the product into or leading to surface waters must be reported to the National Response Center at 1-800-424- 8802.

PA RIGHT TO KNOW ACT

This product contains the following components listed under the Pennsylvania Right To Know Act:

- Stoddard Solvent (CASRN: 8052-41-3)
- N-Decane (CASRN: 124-18-5)
- N-Nonane (CASRN: 111-84-2)
- 1,2,4 Trimethylbenzene (CASRN: 95-63-6)
- Ethyl Benzene (CASRN: 100-41-4)

Global Chemical Inventories

INVENTORY	COMPONENT
	ALL COMPONENTS
US TSCA	Present*
EU	Present
JAPAN	Not available
AUSTRALIA	Present
NEW ZEALAND	Present
CANADA	Present
SWITZERLAND	Not Available
KOREA	Present
PHILIPPINES	Present
CHINA	Present
TAIWAN	Present

\*May be subject to TSCA 12b export notification. Contains Nonane (CASRN: 111-84-2) at 7.85%.

## 16. OTHER INFORMATION

### US NFPA Ratings

HEALTH	FIRE	INSTABILITY
1	2	0

### HIMIS RATINGS

HEALTH	FIRE	PHYSICAL HAZARDS
1*	2	0

### Precautionary Labels

#### Signal Word

WARNING!

Flammable liquid and vapor

Static accumulating liquid can become electrostatically charged even in bonded and grounded equipment; Sparks may ignite liquid and vapor may cause flash fire

Harmful if swallowed, can enter lungs and cause damage

May cause chronic effects

May cause skin irritation

May cause eye irritation

May cause respiratory tract irritation

Prolonged skin contact may cause irritation

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

Date Created: 4/7/2015

Date Updated: 4/7/2015