

MATERIAL SAFETY DATA SHEET**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME: SOLVENT 325
PRODUCT NUMBER: S325
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DATE PREPARED: 02/05/1997
SYNONYMS: Mineral spirits, Alaska Stoddard Solvent

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS	OSHA PEL	ACGIH TLV	Weight %
Solvent naphtha, mineral spirits	64742-88-7	100 ppm	100 ppm	100
Contains the following constituents:				
Xylenes	1330-20-7	100 ppm	100 ppm	<1
Trimethylbenzene, 1,2,4,-	95-63-6	25 ppm	25 ppm	<1

3. HAZARDOUS IDENTIFICATION**EMERGENCY OVERVIEW:**

COMBUSTIBLE. Harmful or fatal if swallowed - can enter lungs and cause damage. May cause eye and skin irritation or injury.

POTENTIAL HEALTH EFFECTS

EYE CONTACT: Liquid is moderately irritating to the eyes. High vapor concentrations may also be irritating.

INHALATION: Vapors may be irritating to the nose, throat, and respiratory tract. High vapor concentrations may cause central nervous system (CNS) depression.

INGESTION: Ingestion of product may result in vomiting; aspiration (breathing) of vomit into the lungs must be avoided as even small quantities may result in aspiration pneumonitis.

SKIN CONTACT: Liquid is slightly irritating to the skin. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

SIGNS AND SYMPTOMS OF EXPOSURE:

Irritation as noted above. Early to moderate CNS depression may be evidenced by giddiness, headache, dizziness, and nausea; in extreme cases, unconsciousness and death may occur. Aspiration pneumonitis may be evidenced by coughing, labored breathing and cyanosis.

4. FIRST AID MEASURES

EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. If irritation occurs, get medical attention.

INHALATION: Remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel. Get medical attention.

INGESTION: DO NOT INDUCE VOMITING. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Get medical attention.

SKIN CONTACT: Remove contaminated clothing/shoes. Flush skin with water. Follow by washing with soap and water. If irritation occurs, get medical attention. Do not reuse clothing until cleaned.

AGGRAVATED MEDICAL CONDITIONS:

Preexisting eye, skin and respiratory disorders may be aggravated by exposure to this product.

SUPPLEMENTAL HEALTH INFORMATION:

Male rats exposed for 90 days by inhalation to vapors of similar solvents showed evidence of kidney damage. The relevance of this effect to humans is unknown. In one of the studies a low grade anemia was also observed.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASH POINT: 110 F **FLASH POINT METHOD USED:** Tag Closed Cup

AUTOIGNITION: NDA **FLAMMABLE LIMITS:** LEL: 1.00% UEL: 7.00%

EXTINGUISHING MEDIA:

Use water fog, "alcohol" foam, dry chemical, or CO2.

SPECIAL FIRE-FIGHTING PROCEDURES:

Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece in positive pressure mode. Move containers from fire area if it can be done without risk. Use water to keep fire-exposed containers cool.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

When heated above the flash point this material emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mist or spray may be flammable at temperatures below the flash point.

COMBUSTION PRODUCTS:

Carbon monoxide and unidentified organic compounds may be formed during combustion.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED

Remove all sources of ignition and provide ventilation. Wear protective equipment as given in Section 8. Dike around large spills to prevent spreading. Absorb small spills with inert material (clay, sand). Prevent contamination of surface waters.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Keep away from heat, sparks, and flame. Surfaces that are hot may ignite even liquid product in the absence of sparks or flame. Extinguish pilot lights, cigarettes and turn off other sources of ignition prior to use and until all vapors are gone.

OTHER PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN! Empty containers retain product residue and can be dangerous. Do not pressurize, cut weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks static electricity, or other sources of ignition.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION (Specify Type):

If exposure may or does exceed occupational exposure limits (Sec. 2) use a NIOSH approved respirator to prevent overexposure. In accord with 29 CFR 1910.134 use either an atmosphere-supplying respir. of an air-purifying respir. for organic vapors.

VENTILATION:

Provide exhaust ventilation sufficient to keep the airborne concentration of this product below its exposure limits. Use explosion-proof ventilation as required to control vapor concentrations.

PROTECTIVE GLOVES:

Test data indicate the best protection is provided by nitrile gloves.

EYE PROTECTION:

Use chemical safety goggles and/or full face shield where splashing is possible. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work areas.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

Wear gloves and protective clothing which are impervious to this product for the duration of anticipated exposure, if there is potential for skin contact.

WORK/HYGIENIC PRACTICES:

Use good personal hygiene when handling this product. Wash hands after use, before eating, drinking, smoking, or using the toilet.

ENGINEERING CONTROLS:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

EXPOSURE GUIDELINES

May be harmful or fatal if swallowed. May irritate body tissues. Use with adequate ventilation. Avoid breathing vapor. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR:

Colorless, clear liquid. Mild odor.

SOLUBILITY IN WATER:

Solubility negligible in water

BOILING POINT: 320-372

VAPOR PRESSURE: < 5 mmHg. @ 20 C

SPECIFIC GRAVITY: 0.775-0.785

MELTING POINT: NDA

FREEZING POINT: NDA

EVAPORATION RATE: Slower than ether

VAPOR DENSITY: Heavier than air

PERCENT VOLATILE: 100

FH: N/A

MOLECULAR WEIGHT: NDA

POUNDS PER GALLON: 6.5

OTHER PROPERTIES: VOCs: 6.4 - 6.5 LBS./GAL.

10. STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID:

Avoid heat, sparks, flame and contact with strong oxidizing agents.

INCOMPATIBILITY:

Strong oxidizers.

HAZARDOUS DECOMPOSITION OR BY PRODUCTS

Carbon monoxide and unidentified organic compounds may be formed during combustion.

HAZARDOUS POLYMERIZATION: Will Not Occur

CONDITIONS TO AVOID:

Avoid heat, flame, and other sources of ignition.

11. TOXICOLOGICAL INFORMATION

Laboratory studies have shown that petroleum distillates may cause kidney, liver, or lung damage. reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

12. ECOLOGICAL INFORMATION

Avoid uncontrolled releases of this material. Where spills are possible, a comprehensive spill response plan should be developed and implemented.

13. DISPOSAL CONSIDERATIONS

The preferred options for disposal are to send to licensed reclaimers, or to permitted incinerators. Any disposal practice must be in compliance with federal, state, and local regulations. Do not dump into sewers, ground, or any body of water.

14. TRANSPORT INFORMATION

DOT CLASS: Flammable liquid
HAZARD CLASS: 3
UN NUMBER: UN 1268
PACKING GROUP: III
GUIDE NUMBER: 128
PROPER SHIPPING NAME: Petroleum distillates, n.o.s. (naphtha solvent)

15. REGULATORY INFORMATION

This product is listed on the EPA/TSCA Inventory of Chemical Substances.

16. OTHER INFORMATION

HMIS INFORMATION: HEALTH: 1 FLAMMABILITY: 2 REACTIVE: 0 PROTECTION: H

SARA TITLE III DATA

For SARA Title III, Sec. 311/312 reporting, this material is classified as an immediate (acute) health hazard, delayed (chronic) health hazard, and a fire hazard.

To the best of our knowledge, none of the products in this mixture are found on the extremely hazardous substances list (Sec. 302).

SARA Title III, Section 313: Xylene (1330-20-7) and trimethyl benzene (95-63-6) are listed as toxic chemicals.

NOTE TO PHYSICIAN

If more than 2.0 ml of per kg has been ingested and vomiting has not occurred, emesis should be induced with supervision. Keep victim's head below hips to prevent aspiration. If symptoms such as loss of gag reflex, convulsions or unconsciousness occur before emesis, gastric lavage using a cuffed endotracheal tube should be considered.

OTHER ADDITIONAL INFORMATION:

N/A = Not applicable; NDA = No data available

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