Safety Data Sheet

XYLENE-PEANUT OIL, 2:1

Section 1 - Chemical Product and Company Identification

SDS Name: Xylene-Peanut Oil, 2:1
Catalog Numbers: SO-469, A-100-3
Company Identification: Transene Company, Inc., DBA ROWLEY BIOCHEMICAL, Inc.
10 ELECTRONICS AVENUE
DANVERS, MA 01923
For information, call: 978-739-4883
Emergency Number: 800-424-9300
For CHEMTREC assistance, call: 800-424-9300

Section 2 - Hazards Identification

GHS Classifications

H226-Flammable liquids: 3
H302-Acute toxicity, oral: 4
H304-Aspiration hazard: 1
H312-Acute toxicity, dermal: 4
H315-Skin corrosion/irritation: 2
H319-Serious eye damage/eye irritation: 2A
H332-Acute toxicity, inhalation: 4
H335-Specific target organ toxicity, single exposure; Respiratory tract irritation: 3
H351-Carcinogenicity: 2
H373-Specific target organ toxicity, repeated exposure: 2

Pictogram or Hazard Symbols and Hazard Statement(s):

Signal word: Danger

Hazard Statements:

H226-Flammable liquid and vapour
H302-Harmful if swallowed
H304-May be fatal if swallowed and enters airways
H312-Harmful in contact with skin
H315-Causes skin irritation
H319-Causes serious eye irritation
H332-Harmful if inhaled
H335-May cause respiratory irritation
H351-Suspected of causing cancer
H373-May cause damage to organs through prolonged or repeated exposure (target organs: kidney, liver, blood)

Precautionary Statements:

P201-Obtain special instructions before use.
P202-Do not handle until all safety precautions have been read and understood.
P210-Keep away from heat/sparks/open flames/hot surfaces.-No smoking.
P233-Keep container tightly closed.
P240-Ground/Bond container and receiving equipment.
P241-Use explosion-proof electrical/ventilation/lighting/equipment.
P242-Use only non-sparking tools.
P243-Take precautionary measures against static discharge.
P260-Do not breathe dust/fume/gas/mist/vapours/spray.
P261-Avoid breathing dust/fume/gas/mist/vapours/spray.
P264-Wash thoroughly after handling.
P270-Do not eat, drink, or smoke when using this product.
P271-Use only outdoors or in a well-ventilated area.
P280-Wear protective gloves/eye protection/face protection/protective clothing.
P281-Use personal protective equipment as required.
P301+P310-If swallowed: Immediately call a Poison Center or doctor/physician.
P301+P312-If swallowed: Call a Poison Center or doctor/physician if you feel unwell.
P302+P352-If on skin: Wash with plenty of soap and water.
P303+P361+P353-If on skin (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340-If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338-If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313-If exposed or concerned: Get medical advice/attention.
P312-Call a Poison Center or doctor/physician if you feel unwell.
P314-Get medical advice/attention if you feel unwell.
P330-Rinse mouth.
P331-Do NOT induce vomiting.
P332+P313-If skin irritation occurs: Get medical advice/attention.
P337+P313-If eye irritation persists: Get medical advice/attention.
P362-Take off contaminated clothing and wash before reuse.
P363-Wash contaminated clothing before reuse.
P370+P378-In case of fire: Use dry chemical, carbon dioxide, dry sand, water spray or alcohol-resistant foam 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/international regulations.

Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent
8002-03-7	Peanut Oil	33 v/v
1330-20-7	Xylenes (o-, m-, p- isomers)	50-57 v/v
100-41-4	Ethyl benzene	10-17 v/v

Section 4 - First Aid Measures

Eye Exposure: In case of contact with eyes, immediately flush eyes well for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Dermal Exposure: May cause irritation with redness and pain. May be absorbed through the skin with possible systemic effects. In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Seek medical attention.

Oral Exposure: If swallowed, seek immediate medical advice.

Inhalation Exposure: If inhaled, remove to fresh air. If not breathing give artificial respiration. Seek immediate medical attention.

Section 5 - Fire Fighting Measures

General Information: Containers can build up pressure if exposed to heat and/or fire. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors may form an explosive mixture with air. Vapors can travel to a source of ignition and flash back. Will burn if involved in a fire. Flammable Liquid. Can release vapors that form explosive mixtures at temperatures above the flashpoint. Use water spray to keep fire-exposed containers cool. Containers may explode in the heat of a fire.

Extinguishing Media: For small fires, use dry chemical, carbon dioxide, dry sand, water spray or alcohol-resistant foam. For large fires, use water spray, fog, or alcohol-resistant foam. Use water spray to cool fire-exposed containers. Water may be ineffective. Do NOT use straight streams of water.

Hazardous Combustion Products: Carbon oxides, aldehydes, hydrocarbons, irritating toxic fumes and gases.

Flash Point: Not available
Auto ignition Temperature: Not available
Explosion Limits, Lower: Not available
Upper: Not available
NFPA Rating: (estimated) Health: 3; Flammability: 3; Instability: 0

Section 6 – Accidental Release Measures

Procedure(s) of Personal Precaution(s): Wear personal protective equipment. Do not ingest or inhale. Do not get on skin or clothing. Do not get in eyes. Ensure adequate ventilation. Keep away from heat. Eliminate all sources of ignition.

Methods for Cleaning up: Absorb with earth, sand, or vermiculite. Carefully sweep up and containerize for proper disposal. Do not release to the environment. Do not release to drains.

Section 7 - Handling and Storage

Use only under a chemical fume hood. Use care when handling. Wear personal protective equipment. Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Store in a cool, dry, well-ventilated area. Keep in a tightly closed and non-metal container. Keep away from incompatible materials. Protect from heat. Vapors heavier than air may travel considerable distance and ignite or explode.

NOTE: Static discharge could act as an ignition source.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Personal Protective Equipment

Eyes: 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: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

Exposure Limits:

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Peanut Oil CAS#8002-03-7	None Listed	None Listed	None Listed
Xylenes (o-, m-, p-isomers) CAS#1330-20-7	100 ppm TWA 150 ppm STEL	None Listed	100 ppm TWA 435 mg/m3 TWA 150 ppm STEL 655 mg/m3 STEL
Ethyl benzene CAS#100-41-4	20 ppm TWA	800 ppm IDLH 100 ppm TWA 435 mg/m3 TWA 125 ppm STEL 545 mg/m3 STEL	100 ppm TWA 435 mg/m3 TWA 125 ppm STEL 545 mg/m3 STEL

OSHA Vacated PELs: Xylenes (o-, m-, p- isomers): 100 ppm TWA, 435 mg/m3 TWA, 150 ppm STEL, 655 mg/m3 STEL
Ethyl benzene: 100 ppm TWA, 435 mg/m3 TWA, 125 ppm STEL, 545 mg/m3 STEL

Section 9 - Physical and Chemical Properties

Physical State: Liquid
Appearance: Pale Yellow
Odor: Not available
Vapor Pressure: Not available
Odor threshold: Not available
Vapor Density: Not available
pH: approx. 5.0
Relative density: Not available
Melting point/freezing point: Not available
Solubility: Insoluble in water
Boiling Point: Not available
Flash point: Not available
Evaporation Rate: Not available
Flammability (solid, gas): Not available
Partition coefficient: n-octanol/water: Not available
Auto-ignition temperature: Not available
Decomposition temperature: Not available
Viscosity: Not available
Specific Gravity/Density: Not available

NOTE: Static discharge could act as an ignition source.

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures. Reacts violently with oxidizers: Risk of fire/explosion.
Conditions to avoid: Direct sunlight. Exposure to air. Extremely high or low temperatures. Open flame. Incompatible materials, ignition sources, excess heat, and oxidizers.
Incompatibilities with other materials: Strong oxidizing agents and strong acids.

Hazardous Decomposition Products: Carbon oxides, aldehydes, hydrocarbons, irritating toxic fumes and gases.

Section 11 - Toxicological Information

CAS#8002-03-7 Peanut Oil:
LD50 Oral: Not available
LD50 Dermal: Not available
LC50 Inhalation: Not available

Carcinogenicity: Peanut Oil CAS#8002-03-7 is not listed by IARC, NTP, ACGIH, OSHA, or California Prop 65.

CAS# 1330-20-7 Xylenes (o-, m-, p- isomers):
LD50 Oral: 3500 mg/kg (rat)
LD50 Dermal: >4350 mg/kg (rabbit), >1700 mg/kg (rabbit)
LC50 Inhalation: 29.08 mg/L

Carcinogenicity: Xylenes (o-, m-, p- isomers) CAS# 1330-20-7 is not listed by IARC, NTP, ACGIH, OSHA, or California Prop 65.

CAS# 100-41-4 Ethyl benzene:
LD50 Oral: 3500 mg/kg (rat)
LD50 Dermal: 15400 mg/kg (rabbit)
LC50 Inhalation: 17.2 mg/L (rat) 4h

Carcinogenicity: Ethyl benzene CAS#100-41-4 is listed by IARC as Group 2B (Probably Carcinogenic to Humans), ACGIH as A3 (Animal Carcinogen), and California Prop. 65 as a carcinogen. It is not listed by NTP.

Special Remarks on other Toxic Effects on Humans: Danger. Harmful or fatal if swallowed. Vapor harmful. Affects central nervous system. Causes severe eye irritation. Causes irritation to skin and respiratory tract. Harmful if absorbed through the skin. Chronic exposure can cause adverse liver, kidney, and blood effects. Flammable liquid and vapor.
Epidemiology: Not available
Teratogenicity: Teratogenic effects have occurred in experimental animals.
Reproductive Effects: Experiments have shown reproductive toxicity effects on laboratory animals.
Neurotoxicity: Not available
Mutagenicity: Not available
Developmental Effects: Developmental effects have occurred in experimental animals.
Specific Target Organ Toxicity, Single exposure: Central nervous system and respiratory system.
Specific Target Organ Toxicity, Repeated exposure: Kidney, liver, and blood.

The toxicological properties of this material have not been thoroughly investigated.

Section 12 - Ecological Information

Ecotoxicity: Do not release to the environment. Do not release to drains. Toxic to aquatic life with long lasting effects.

CAS#1330-20-7 Xylenes (o-, m-, p- isomers):
LC50, freshwater fish: 30.26-40.75 mg/L 96h static (poecilia reticulata)
LC50, freshwater fish: >780 mg/L 96h (cyprinus carpio)
LC50, freshwater fish: =780 mg/L 96h semi-static (cyprinus carpio)
LC50, freshwater fish: 23.53-29.97 mg/L 96h static (pimephales promelas)
LC50, freshwater fish: =13.4 mg/L 96h flow-through (pimephales promelas)
LC50, freshwater fish: 13.5-17.3 mg/L 96h (oncorhynchus mykiss)
LC50, freshwater fish: 2.661-4.093 mg/L 96h static (oncorhynchus mykiss)
LC50, freshwater fish: 7.711-9.591 mg/L 96h static (pimephales promelas)
LC50, freshwater fish: =19 mg/L 96h (lepomis macrochirus)
LC50, freshwater fish: 13.1-16.5 mg/L 96h flow-through (lepomis macrochirus)
EC50, microtox: =0.0084 mg/L 24h
EC50, water flea: =3.82 mg/L 48h
LC50, water flea: =0.6 mg/L 48h (gammarus lacustris)

CAS#100-41-4 Ethyl benzene:
EC50, freshwater algae: 1.7-7.6 mg/L 96h static (pseudokirchneriella subcapitata)
EC50, freshwater algae: 2.6-11.3 mg/L 72h static (pseudokirchneriella subcapitata)
EC50, freshwater algae: >438 mg/L 96h (pseudokirchneriella subcapitata)
EC50, freshwater algae: =4.6 mg/L 72h (pseudokirchneriella subcapitata)
LC50, freshwater fish: 11.0-18.0 mg/L 96h static (oncorhynchus mykiss)
LC50, freshwater fish: =32 mg/L 96h static (lepomis macrochirus)
LC50, freshwater fish: =4.2 mg/L 96h semi-static (oncorhynchus mykiss)
LC50, freshwater fish: 7.55–11 mg/L 96h flow-through (pimephales promelas)
LC50, freshwater fish: 9.1-15.6 mg/L 96h static (pimephales promelas)
LC50, freshwater fish: =9.6 mg/L 96h static (poecilia reticulata)
EC50, microtox: =9.68 mg/L 30min
EC50, microtox: =96 mg/L 24h
EC50, water flea: 1.8-2.4 mg/L 48h (daphnia magna)

Persistence and degradability: Not available.
Bioaccumulation: Not available.
Mobility: Not available.

Section 13 - Disposal Considerations

DISPOSAL: Dispose of in accordance with all federal, state, and local regulations.

Section 14 – Transport Information

DOT
UN1307

Proper Shipping Name: Xylenes
Hazard Class: 3
Packing Group III

Section 15 - Regulatory Information

Canada Regulatory Information

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the SDS contains all the information required by the CPR.

Section 16 - Additional Information

SDS Creation Date: May 11, 2012
Revision #1. 12/1/2014 RC
Revision #2. 12-9-21

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