



Revision date: 3/31/2015

Version: 1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name/designation:	Xylene Substitute	
Product No.:	89370-090	
Other means of identification: Mineral Spirits, Aliphatic Hydrocarbon		

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

Relevant identified uses: Clearing, deparaffinization

1.3. Details of the supplier of the safety data sheet

Company	VWR International, LLC		
	Radnor Corporate Center		
	100 Matsonford Road		
	Radnor, PA 19087-8660		
Telephone	610.386.1700		

1.4. Emergency Telephone number

CHEMTREC	800.424.9300
CANUTEC	613.996.6666

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Hazard classes and hazard categories	Hazard statements
Flammable Liquid Category 3	Flammable liquid and vapor.
Aspiration Toxicity Category 1	Fatal if Inhaled.
Aquatic Chronic Category 4	May cause long lasting effects to aquatic life.

2.2. GHS Label elements, including precautionary statements



Signal word: Danger!







Hazard statements	
H226	Flammable liquid and vapor.
H304	May be fatal if swallowed and enters airways.
H413	May cause long lasting harmful effects to aquatic life.
EUH066	Repeated exposures may cause skin dryness or cracking.

Precautionary statements	
P210	Keep away from heat/sparks/open flames/hot surfaces. – No
	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
	Use only non-sparking tools.
P243	Take precautionary measure against static discharge.
	Avoid release to the environment.
P280	Wear protective gloves, protective clothing and eye protection.
	IF SWALLOWED: Immediately call a POISON CENTER or
	doctor/physician.
	IF ON SKIN (or hair): Remove immediately all contaminated
D221	clothing. Rinse skin with water.
	Do NOT induce vomiting.
P370+P378	In case of fire: use dry chemical, foam or water spray for
	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of container/contents to approved disposal site in
	accordance with all local and national regulations.

2.3. WHIMS Classification: B2: Flammable Liquid

2.4. Hazards not otherwise classified (HNOC) or not covered by GHS or WHIMS: N/A

SECTION 3: Composition / information on ingredients

3.1. Hazard components

Chemical name	Molecular Weight	CAS#	Weight%
Aliphatic Hydrocarbon	155 g/mol	64742-48-9	100





SECTION 4: First aid measures

4.1. General information

In case of 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 if irritation persists.

In case of skin contact: In case of contact, 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 if irritation persists.

In case of eye contact: 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 if irritation persists.

In case of ingestion: If swallowed, rinse out mouth with water. Aspiration hazard. DO NOT induce vomiting. If vomiting occurs, keep head below hips to prevent aspiration into the lungs. Never give anything by mouth to a person who is unconscious or drowsy. Get immediate medical attention.

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

4.3. Indication of any immediate medical attention and special treatment needed Note to Physician: If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

SECTION 5: Firefighting measures

5.1. Extinguishing media: Use water spray, alcohol resistant foam, dry chemical or carbon dioxide. DO NOT use water jet.

5.2. Special hazards arising from the substance or mixture: Flammable liquid and vapor. Vapors are heavier than air and will travel along surfaces to ignition sources. Vapors will collect in low areas. Vapors may be ignited by static sparks.

5.3. Special protective equipment 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.





5.4. Hazardous combustion products: Oxides of carbon, Incomplete combustion products, smoke, fumes.

5.5. 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. Avoid runoff into storm sewers and ditches which lead to waterways.

5.6. Additional information

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures: Avoid contact with spilled material. Warn or evacuate occupants in surrounding and downwind areas if required due to toxicity or flammability of the material. Absorb with an inert dry material and place in an appropriate waste disposal container. See section 8 for advice on the minimum requirements for personal protective equipment. Normal antistatic work clothes are usually adequate.

6.2. Environmental precautions: Large Spills: Dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements and confined areas.

6.3. Methods and material for containment and cleaning up: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. 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). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. A vapor suppressing foam may be used to reduce vapors. Water spray may reduce vapor, but may not prevent ignition in closed places. Note: see section 1 for emergency contact information and section 13 for waste disposal. Full body suit of chemical resistant, antistatic material is recommended.

6.4. Additional information

SECTION 7: Handling and storage





7.1. Precautions for safe handling: Avoid contact with skin. Prevent small spills and leakage to avoid slip hazard. Material can accumulate static charges which may cause and electrical spark (ignition source). Use proper bonding and/or ground procedures. However, bonding and grounds and not eliminate the hazard from static accumulation. Consult local applicable standards for guidance.

7.2. Conditions for safe storage, including any incompatibilities: Avoid contact with skin. Prevent small spills and leakage to avoid slip hazard. Material can accumulate static charges which may cause and electrical spark (ignition source). Use proper bonding and/or ground procedures. However, bonding and grounds and not eliminate the hazard from static accumulation. Consult local applicable standards for guidance.

7.3. Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Chemical Name	Limit value type & Country of Origin	Exposure Limit value	Source
Aliphatic Hydrocarbon	TWA (US)	2000 mg/m ³ / 500 ppm	OSHA PEL
	TWA (US)	1800 mg/m³ 350 ppm 15 min.	NIOSH REL

8.2. Exposure controls

Appropriate engineering controls: General room or local exhaust ventilation is usually required to meet exposure limit(s). Use explosion proof ventilation equipment. Electrical equipment should be grounded and conform to applicable electrical code.

Personal protection equipment

Eye/face protection: Use chemical safety goggles and/or a full face shield where splashing is possible. Use equipment approved by appropriate government standards, such as NIOSH (US) or EN166 (EU). Maintain eye wash fountain and quick-drench facilities in work area.

Skin protection: Choose body protection according to the amount and concentration of the dangerous substance at the work place. Recommended: Lab coat or apron.

Respiratory protection: If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to pretect worker health, an approved respirator may be appropriate. Where risk assessment shows air-purifying respirators are





appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hygiene measures

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

- a) Appearance: Clear Physical state: Liquid Color : Colorless
- b) Odor: Odorless
- c) Odor Threshold N/A
- d) pH N/A
- e) Melting point/freezing point N/A
- f) Initial boiling point and boiling range: 180°C (356°F) - 188°C (370°F)
- g) Flash point: >54°C (129°F) closed cup
- h) Evaporation rate (n-butyl acetate =1): 0.16
- i) Flammability (solid, gas) N/Aj) Upper/lower flammability
 - or explosive limits
- k) Vapor pressure (mmHg): 0.56 mmHg
- I) Vapor density (Air =1): 5.4
- m) Relative density: Not available
- n) Solublities : Negligible solubility in water
- o) Partition coefficient (n-Octanol/Water): Not available
- p) Auto-ignition temperature: 343°C (649°F)
- q) Decomposition temperature: Not available
- r) Viscosity: Not available
- s) Explosive properties: Not available
- t) Oxidizing properties: Not available

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity





10.2. Chemical stability: Product is stable under normal conditions of use.

10.3. Possibility of hazardous reactions: No hazardous polymerization.

10.4. Conditions to avoid: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

10.5. Incompatible materials: Strong Oxidizers

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

SECTION 11: Toxicology

11.1. Information on toxicological effects

Acute toxicity

Oral LD₅₀ Rat >5000 mg/kg Inhalation LC₅₀ Rat >5000 mg/m³ 8 hour(s) Dermal LD₅₀ Rabbit >5000 mg/kg Other information on acute toxicity No data available

Skin corrosion/irritation

Mildly irritating to skin with prolonged exposure. Based on test data for structurally similar materials.

Serious eye damage/eye irritation

Eyes: May cause mild, short-lasting discomfort to the eyes. Based on test data for structurally similar materials

Respiratory or skin sensitization

No end point data for material – Not expected to be a respiratory sensitizer

Not expected to be a skin sensitizer

Germ cell mutagenicity

Not expected to be a germ cell mutagen.

Carcinogenicity

Not an expected carcinogen.

Reproductive toxicity

No data available

Specific target organ toxicity-single exposure

Not expected to cause organ damage from a single exposure

Specific target organ toxicity-repeated exposure

Not expected to cause organ damage from prolonged or repeated exposure.

Aspiration hazard





May be fatal if swallowed and enters airwaysAdditional informationPotential health effectsInhalationToxic if inhaled. Causes respiratory tract irritation.IngestionToxic if swallowed.SkinToxic if absorbed through skin. Causes skin irritation.EyesCauses eye irritation.

SECTION 12: Ecological information

12.1. Ecotoxicity:

- Aquatic Acute toxicity:
- 96 hour(s) Oncorhynchus mykiss (rainbow trout) LL0 1000 mg/l
- 48 hour(s) Daphnia magna (water flea) ELO 1000 mg/l
- 72 hour(s) Pseudokirchnerilla subcapitata ELO 1000 mg/l

12.2. Persistence and degradability: Expected to be inherently biodegradable.

- 12.3. Bioaccumulative potential: No Data Available
- 12.4. Mobility in soil: No Data Available
- 12.5. Results of PBT and vPvB assessment: No Data Available

12.6. Other adverse effects

Product can be considered an environmental hazard through improper handling and improper disposal. Product is considered toxic to aquatic life with long lasting effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods: Based on material supplied: Disposal must be in accordance with current provincial, local, state, and federal regulations.

Disposal of unused product may be subject to RCRA regulations. RCRA: D001 IGNITABILITY

SECTION 14: Transport information

Land Transport DOT (U.S.) UN Number: UN1268

Proper Shipping name: Petroleum Distillates, N.O.S.





Transport Hazard Classes Class: 3 Hazard Label(s) Flammable liquid Packing Group: III Environmental hazard(s) Special precautions for user

Sea Transport IMDG

UN Number: UN1268 Proper Shipping name: Petroleum Distillates, N.O.S. Transport Hazard Classes Class: 3 Hazard Label(s) Flammable liquid EMS- No. F-E,S-E Packing Group: III Environmental hazard(s) Segregation Group Special precautions for user

Air Transport IATA

UN Number: UN1268 Proper Shipping name: Petroleum Distillates, N.O.S. Transport Hazard Classes Class: 3 Hazard Label(s) Flammable liquid Packing Group: III Environmental hazard(s) Special precautions for user

SECTION 15: Regulatory information

OSHA Hazards

Flammable liquid SARA 302 Extremely Hazardous Substances No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302 SARA 313 (TRI reporting) This material contains no chemicals subject to the supplier notification requirements of the SARA 313





Toxic Release Program.

SARA 311/312 Hazardous Chemicals MSDS distribution – chemical inventory – hazard identification Fire. Immediate health. Delayed health Massachusetts Right-To-Know Substance List: Petroleum distillates

Pennsylvania Right-To-Know Hazardous substances: Petroleum distillates

New Jersey Worker and Community Right-To-Know Components: Petroleum distillates

California Propostion 65:

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Inventory status: Canada DSL/NDSL Inventory List: Listed US TSCA Inventory List: Listed EINECS, ELINCS or NLP: Listed

SECTION 16: Other information

Canadian Carcinogenicity hazard class: Not classified PHNOC hazard class: Not classified HHNOC hazard class: Not classified Biohazardous Infectious Materials hazard class: Not classified

NFPA Rating: Health:1 Flammability:2 Reactivity:0 Special Hazard:



DISCLAIMER

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. VWR International and its Affiliates shall not be held liable for any damage resulting from handling.