1417S

SECTION 1: Identification

Product identifier

Product name: 1417S

Recommended use of the product and restriction on use

Relevant identified uses: Not determined or not applicable.
Uses advised against: Not determined or not applicable.
Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Manufacturer:
United States
ET Products LLC
747 Douglas Road
Bremen, IN 46506
800-325-5746

Emergency telephone number:

United States
Chemtrec
800-424-9300 (24/7)

SECTION 2: Hazard(s) identification

GHS classification:

Skin irritation, category 2
Eye irritation, category 2A
Aspiration hazard, category 1
Flammable liquids, category 3
Carcinogenicity, category 2
Reproductive toxicity, category 2
Specific target organ toxicity - single exposure, category 2
Specific target organ toxicity - single exposure, category 3, respiratory tract irritation
Specific target organ toxicity - single exposure, category 3, narcotic effects
Specific target organ toxicity - repeated exposure, category 1

Label elements

Hazard pictograms:

Signal word: Danger

Hazard statements:

H226 Flammable liquid and vapor
H315 Causes skin irritation
H319 Causes serious eye irritation
H304 May be fatal if swallowed and enters airways
H351 Suspected of causing cancer
H361 Suspected of damaging fertility or the unborn child

H371 May cause damage to organs (or state all organs affected, if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)
H335 May cause respiratory irritation
H336 May cause drowsiness or dizziness
H372 Causes damage to organs through prolonged or repeated exposure

Precautionary statements:

P264 Wash thoroughly after handling
P280 Wear protective gloves/protective clothing/eye protection/face protection
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/ ventilating/ lighting/ equipment
P242 Use only non-sparking tools
P243 Take precautionary measures against static discharge
P201 Obtain special instructions before use
P202 Do not handle until all safety precautions have been read and understood
P260 Do not breathe dust/fume/gas/mist/vapors/spray
P270 Do not eat, drink or smoke when using this product
P261 Avoid breathing dust/fume/gas/mist/vapors/spray
P271 Use only outdoors or in a well-ventilated area
P302+P352 IF ON SKIN: Wash with plenty of water
P321 Specific treatment (see supplemental first aid instructions on this label)
P332+P313 If skin irritation occurs: Get medical advice/attention
P362 Take off contaminated clothing and wash it before reuse
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337+P313 If eye irritation persists: Get medical advice/attention
P331 Do NOT induce vomiting
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P370+P378 In case of fire: Use agents recommended in section 5 to extinguish
P308+P313 IF exposed or concerned: Get medical advice/attention
P308+P311 IF exposed or concerned: Call a POISON CENTER/doctor/ ...
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P312 Call a POISON CENTER/doctor if you feel unwell
P314 Get medical advice/attention if you feel unwell
P405 Store locked up
P403+P235 Store in a well-ventilated place. Keep cool
P403+P233 Store in a well-ventilated place. Keep container tightly closed
P501 Dispose of contents/container in accordance with local regulations

Hazards not otherwise classified: None

SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 95-63-6	1, 2, 4-Trimethylbenzene	6.99-23.48
CAS number: 98-82-8	Cumene	0.073-1.325

CAS number: 526-73-8	1,2,3-trimethylbenzene	1.39-6.057
CAS number: 1330-20-7	Xylene	0.473-1.925
CAS number: 611-14-3	2-ethyltoluene	1.72-7.68
CAS number: 108-67-8	Mesitylene	2.25-6.697
CAS number: 103-65-1	Propylbenzene	1.29-4.48
CAS number: 25155-15-1	Cymene	0.215-2.56
CAS number: 620-14-4	3-ethyltoluene	4.3-12.8
CAS number: 622-96-8	4-ethyltoluene	1.29-6.4
CAS number: N/A	Other Aromatic Hydrocarbons (C9 - C10)	<16
CAS number: 64742-94-5	Solvent naphtha (petroleum), heavy arom.	10.5-22.6
CAS number: 91-20-3	Naphthalene	0.36-2.15
CAS number: 108-88-3	Toluene	<0.03
CAS number: 64742-95-6	Solvent naphtha (petroleum), light arom.	1-1.797
CAS number: 100-41-4	Ethyl Benzene	0.1-0.15
CAS number: 25551-13-7	Trimethylbenzene	0.4-0.897
CAS number: 25340-17-4	Diethylbenzene	<0.06
CAS number: 111-77-3	Diethylene Glycol Methyl Ether	5.94-9

Additional Information: None

SECTION 4: First aid measures

Description of first aid measures

General notes:

Show this Safety Data Sheet to the doctor in attendance.

After inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at

rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If symptoms develop or persist, seek medical advice/attention.

After skin contact:

Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse. If symptoms develop or persist, seek medical advice/attention.

After eye contact:

Rinse eyes with plenty of gently flowing lukewarm water for 15 minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. If symptoms develop or persist, seek medical advice/attention.

After swallowing:

If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention.

This product presents an aspiration hazard. If aspiration is suspected, seek emergency medical treatment. If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention.

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Skin contact may result in redness, pain, burning and inflammation.

Eye contact may result in irritation, redness, pain, inflammation, itching, burning and tearing.

May be fatal if swallowed and enters airways. Aspiration may cause pulmonary edema and pneumonitis. Symptoms may include shortness of breath, dry cough and irritation of the nose, eyes, lips, mouth and throat.

Product is flammable. Exposure to sources of ignition may cause physical injury.

May cause damage to organs. Effects are dependent on exposure (dose, concentration, contact time).

Inhalation may have adverse effects on the respiratory tract. Symptoms may include cough, breathing difficulties, sore throat and inflammation of the mucous membrane lining the respiratory tract.

Inhalation may have adverse effects on the central nervous system. Symptoms may include drowsiness, dizziness, headache, nausea and lowering of consciousness. Acute overexposure via inhalation may result in respiratory distress, confusion and unconsciousness.

Delayed symptoms and effects:

Effects are dependent on exposure (dose, concentration, contact time).

Symptoms of pulmonary edema may be delayed.

Suspected of causing cancer. Effects are dependent on exposure (dose, concentration, contact time).

Long term exposure may affect fertility. Symptoms include, but are not limited to: menstrual problems, altered sexual behavior/fertility/ and pregnancy outcome. Long term exposure may also affect development of the unborn child. Symptoms include, but are not limited to: intrauterine growth retardation, pre-term birth, birth defects and postnatal death.

Causes damage to organs through prolonged or repeated exposure. Effects are dependent on exposure (dose, concentration, contact time).

Immediate medical attention and special treatment

Specific treatment:

Skin/eye burns require immediate treatment.

If exhibiting symptoms of exposure, seek prompt medical attention.

If respiratory symptoms persist, seek medical attention.

Overexposure via inhalation requires urgent medical treatment.

Notes for the doctor:

Treat symptomatically.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media:

Water mist/fog, carbon dioxide, dry chemical or alcohol resistant foam.

Dry chemical, CO_2, water spray or alcohol-resistant foam.

Unsuitable extinguishing media:

Do not use water jet.

Specific hazards during fire-fighting:

Thermal decomposition may produce irritating/toxic fumes/gases.

Flammable liquid. Will be easily ignitable by heat, sparks or flames. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard. Containers may explode when heated. Inhalation or contact with material may irritate or burn skin and eyes. Fire may produce irritating, corrosive and/or toxic gases. Vapors may cause dizziness or suffocation.

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.

Special precautions:

Avoid contact with skin, eyes, hair and clothing. Do not breathe fumes/gas/mists/aerosols/vapors/dusts. Move containers from fire area if safe to do so. Use water spray/fog for cooling fire exposed containers. Avoid unnecessary run-off of extinguishing media which may cause pollution.

Evacuate non-essential personnel. Ventilate closed spaces before entering. Consider initial evacuation for 300 meters in all directions. If tank/rail car is involved in the fire, ISOLATE for 800 meters in all directions. Fight fire from a maximum distance. Move containers from fire area if you can do it without risk. Use water spray/fog for cooling fire exposed containers. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. Always stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles. If this is impossible, withdraw from area and let fire burn. Stand by, at a safe distance, with extinguisher ready for possible re-ignition. A vapor-suppressing foam may be used to reduce vapors. Avoid unnecessary run-off of extinguishing media which may cause pollution. Do not handle damaged containers unless specialized to do so.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Evacuate unnecessary personnel. Ventilate area. Extinguish any sources of ignition. Wear recommended personal protective equipment (see Section 8). Do not get on skin, eyes or on clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling. Remove contaminated clothing and launder before reuse.

Evacuate unnecessary personnel. Ventilate area. Extinguish any sources of ignition. All equipment used when handling the product must be grounded. Wear recommended personal protective equipment (see Section 8). Avoid contact with skin, eyes and clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling.

Environmental precautions:

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided.

Methods and material for containment and cleaning up:

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided.

Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Stop leak if you can do it without risk. A vapor-suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers for future disposal. Dispose of in accordance with all applicable regulations (see Section 13).

Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Avoid breathing dust, mist, fumes, vapors or spray. Stop leak if you can do it without risk. Contain and collect spillage and place in suitable container for future disposal. Dispose of in accordance with all applicable regulations (see Section 13).

Reference to other sections:

For personal protective equipment see Section 8. For disposal see Section 13.

SECTION 7: Handling and storage

Precautions for safe handling:

Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with skin, eyes and clothing. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating and lighting equipment. Take action to prevent static discharges. Handle containers with caution. Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with skin, eyes and clothing. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use.

Conditions for safe storage, including any incompatibilities:

Store in cool, dry, well-ventilated location out of direct sunlight. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Keep container tightly sealed. Store away from incompatible materials (See Section 10).

SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
NIOSH	1, 2, 4-Trimethylbenzene	95-63-6	REL: 25 ppm
	1, 2, 4-Trimethylbenzene	95-63-6	REL: 125 mg/m³
	Cumene	98-82-8	REL: 50 ppm
	Cumene	98-82-8	REL: 245 mg/m³
	Cumene	98-82-8	IDLH: 900 ppm
	1,2,3-trimethylbenzene	526-73-8	REL: 125 mg/m³ ([for up to a 10-hour workday during a 40-hour workweek])

Country (Legal Basis)	Substance	Identifier	Permissible concentration
	1,2,3-trimethylbenzene	526-73-8	REL: 25 ppm ([for up to a 10-hour workday during a 40-hour workweek])
	Xylene	1330-20-7	REL-TWA: 435 mg/m³
	Xylene	1330-20-7	REL-TWA: 100 ppm
	Xylene	1330-20-7	STEL: 655 mg/m³
	Xylene	1330-20-7	STEL: 150 ppm
	Mesitylene	108-67-8	REL: 25 ppm
	Mesitylene	108-67-8	REL: 125 mg/m³
	Solvent naphtha (petroleum), heavy arom.	64742-94-5	REL: 100 mg/m³ (NIOSH Recommended exposure limit REL [for up to a 10-hour workday during a 40-hour workweek)
	Naphthalene	91-20-3	TWA: 10 ppm
	Naphthalene	91-20-3	TWA: 50 mg/m³
	Naphthalene	91-20-3	STEL: 15 ppm
	Naphthalene	91-20-3	STEL: 75 mg/m³
	Toluene	108-88-3	TWA: 375 mg/m³ (100 ppm)
	Toluene	108-88-3	STEL: 560 mg/m³ (150 ppm)
	Ethyl Benzene	100-41-4	REL-TWA: 435 mg/m³ (100 ppm [10-hr])
	Ethyl Benzene	100-41-4	STEL: 545 mg/m³ (125 ppm)
	Ethyl Benzene	100-41-4	IDLH: 800 ppm
	Trimethylbenzene	25551-13-7	REL: 125 mg/m³ (25 ppm)
ACGIH	1, 2, 4-Trimethylbenzene	95-63-6	8-Hour TWA: 25 ppm
	Cumene	98-82-8	TWA: 50 ppm
	Xylene	1330-20-7	TWA: 100 ppm
	Xylene	1330-20-7	STEL: 150 ppm
	Mesitylene	108-67-8	8-Hour TWA: 25 ppm
	Solvent naphtha (petroleum), heavy arom.	64742-94-5	8-Hour TWA: 200 mg/m³
	Naphthalene	91-20-3	TWA: 10 ppm
	Naphthalene	91-20-3	STEL: 15 ppm
	Toluene	108-88-3	TWA: 20 ppm
	Ethyl Benzene	100-41-4	8-Hour TWA: 20 ppm
	Trimethylbenzene	25551-13-7	Daily Exposure Limit: 25 ppm (TLV-TWA)
OSHA	1, 2, 4-Trimethylbenzene	95-63-6	TWA: 25 ppm
	1, 2, 4-Trimethylbenzene	95-63-6	TWA: 125 mg/m³
	Cumene	98-82-8	8-Hour TWA-PEL: 50 ppm
	Cumene	98-82-8	TWA: 245 mg/m³
	Xylene	1330-20-7	8-Hour TWA-PEL: 435 mg/m³
	Xylene	1330-20-7	8-Hour TWA-PEL: 100 ppm
	Xylene	1330-20-7	STEL: 150 ppm
	Xylene	1330-20-7	STEL: 655 mg/m³

Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Mesitylene	108-67-8	TWA: 25 ppm
	Mesitylene	108-67-8	TWA: 125 mg/m³
	Naphthalene	91-20-3	TWA: 10 ppm
	Naphthalene	91-20-3	TWA: 50 mg/m³
	Ethyl Benzene	100-41-4	8-Hour TWA-PEL: 435 mg/m³ (100 ppm)
	Trimethylbenzene	25551-13-7	REL: 125 mg/m³ (25 ppm)
United States(California)	Cumene	98-82-8	8-Hour TWA: 50 ppm
	Cumene	98-82-8	8-Hour TWA: 245 mg/m³
	Xylene	1330-20-7	8-Hour TWA-PEL: 100 ppm
	Xylene	1330-20-7	PEL-STEL: 150 ppm (15- minute)
	Xylene	1330-20-7	PEL Ceiling: 300 ppm
	Naphthalene	91-20-3	PEL: 0.1 ppm
	Naphthalene	91-20-3	PEL: 0.5 mg/m³
	Toluene	108-88-3	PEL: 37 mg/m³ (10 ppm)
	Toluene	108-88-3	STEL: 560 mg/m³ (150 ppm)
	Toluene	108-88-3	Ceiling Limit: 500 ppm
	Ethyl Benzene	100-41-4	8-Hour TWA-PEL: 425 mg/m³ (100 ppm)
	Ethyl Benzene	100-41-4	15-Minute STEL: 545 mg/m³ (125 ppm)
United States	Toluene	108-88-3	PEL: 300 ppm (Ceiling)
	Toluene	108-88-3	PEL: 200 ppm (TWA)
	Toluene	108-88-3	PEL: 500 ppm (Peak 10 mins)
WEEL	Diethylbenzene	25340-17-4	8-Hour TWA: 5 ppm

Biological limit values:

Country (Legal Basis)	Substance	Identifier	Determinant	Specimen	Sampling time	Permissible limits
United States	Xylene	1330-20-7	Methylhippuric acids		End of shift	1.5 g/g
ACGIH	Ethyl Benzene	100-41-4	Sum of mandelic acid and phenylglyoxylic acid	Creatinine in urine	End of shift.	0.15 g/g

Information on monitoring procedures:

Not determined or not applicable.

Appropriate engineering controls:

Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

Personal protection equipment

Eye and face protection:

Safety glasses or goggles. Use eye protection equipment that has been tested and approved by

recognized national standards (or equivalent).

Skin and body protection:

Chemical resistant, impervious gloves approved by the appropriate standards. Gloves must be inspected prior to use. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Ensure that all personal protective equipment is approved by recognized national standards (or equivalent).

Respiratory protection:

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

General hygienic measures:

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Perform routine housekeeping.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Clear, amber liquid
Odor	Characteristic solvent odor
Odor threshold	Not determined or available
pH	Not determined or available
Melting point/freezing point	Not determined or available
Initial boiling point/range	Not determined or available
Flash point (closed cup)	>113°F
Evaporation rate	Not determined or available
Flammability (solid, gas)	Not determined or available
Upper flammability/explosive limit	Not determined or available
Lower flammability/explosive limit	Not determined or available
Vapor pressure	Not determined or available
Vapor density	Not determined or available
Density	Not determined or available
Relative density	0.84 - 0.93
Solubilities	Not determined or available
Partition coefficient (n-octanol/water)	Not determined or available
Auto/Self-ignition temperature	Not determined or available
Decomposition temperature	Not determined or available
Dynamic viscosity	Not determined or available
Kinematic viscosity	<20mm^2/s @ 104°F
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or available

Other information

SECTION 10: Stability and reactivity

Reactivity:
Not reactive under recommended handling and storage conditions.

Chemical stability:
Stable under recommended handling and storage conditions.

Possibility of hazardous reactions:
Hazardous reactions are not anticipated under recommended conditions of handling and storage.

Conditions to avoid:
Extreme heat, open flames, hot surfaces, sparks, ignition sources, static electricity and incompatible materials. Vapor accumulation in low or confined areas.

Incompatible materials:
None known.

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

SECTION 11: Toxicological information

Acute toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Route	Result
1, 2, 4-Trimethylbenzene	inhalation	LC50 Rat: 18,000 mg/m³
	oral	LD50 Rat: 6000 mg/kg
Cumene	oral	LD50 Rat: 2910 mg/kg
	dermal	LD50 Rabbit: 3160 mg/kg
Xylene	dermal	LD50 Rabbit: 1700 mg/kg
	inhalation	LC50 Rat: 5000 ppmV (4 h)
	oral	LD50 Mouse: 5251 mg/kg
2-ethyltoluene	oral	LD50 Rat: 5000 mg/kg
	inhalation	LC50 Mouse: 54,000 mg/m³ (4 Hr)
Mesitylene	oral	LD50 Rat: 6000 mg/kg
	inhalation	LC50 Rat: 10200 mg/m³
Solvent naphtha (petroleum), heavy arom.	oral	LD50 Rat: >5000 mg/kg
	dermal	LD50 Rabbit: >2000 mg/kg
	inhalation	LC50 Rat: >5.28 mg/L (Vapor)
Naphthalene	oral	LD50 Mouse: 316 mg/kg
	dermal	LD50 Rabbit: >2000 mg/kg
	inhalation	LC50 Rat: >0.4 mg/L (4 h (Vapor))
Toluene	oral	LD50 Rat: 5000 mg/kg
	dermal	LD50 Rabbit: 12,000 mg/kg
	inhalation	LC50 Rat: 25.7 mg/L (4 h [Vapor])
Ethyl Benzene	inhalation	LC50 Rat: 4000 ppmV (4 h)
	oral	LD50 Rat: 5460 mg/kg
	dermal	LD50 Rabbit: 17,800 mg/kg

Name	Route	Result
Trimethylbenzene	oral	LD50 Rat: 8970 mg/kg

Skin corrosion/irritation

Assessment:

Causes skin irritation.

Product data:

No data available.

Substance data:

Name	Result
1, 2, 4-Trimethylbenzene	Causes skin irritation.
1,2,3-trimethylbenzene	Causes skin irritation.
Xylene	Causes skin irritation.
Mesitylene	Causes skin irritation.
Toluene	Causes skin irritation.
Trimethylbenzene	Causes skin irritation.
Diethylbenzene	Causes skin irritation.

Serious eye damage/irritation

Assessment:

Causes serious eye irritation.

Product data:

No data available.

Substance data:

Name	Result
1, 2, 4-Trimethylbenzene	Causes serious eye irritation.
1,2,3-trimethylbenzene	Causes serious eye irritation.
2-ethyltoluene	Causes serious eye irritation.
Mesitylene	Causes serious eye irritation.
Trimethylbenzene	Causes serious eye irritation.

Respiratory or skin sensitization

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Carcinogenicity

Assessment:

Suspected of causing cancer.

Product data: No data available.

Substance data:

Name	Species	Result
Naphthalene		May cause cancer.

Name	Species	Result
Solvent naphtha (petroleum), light arom.	Not applicable.	May cause cancer. Animals exposed to high levels of some petroleum products have developed liver and kidney tumors. Occupationally exposed people in the petroleum refining industry have an increased risk of skin cancer and leukemia.

International Agency for Research on Cancer (IARC):

Name	Classification
1, 2, 4-Trimethylbenzene	Not Applicable
Cumene	Group 2B
1,2,3-trimethylbenzene	Not Applicable
Xylene	Group 3
Mesitylene	Not Applicable
Solvent naphtha (petroleum), heavy arom.	Not Applicable
Naphthalene	Group 2B
Toluene	Group 3
Solvent naphtha (petroleum), light arom.	Not Applicable
Ethyl Benzene	Group 2B
Trimethylbenzene	Not Applicable
Diethylbenzene	Not Applicable

National Toxicology Program (NTP):

Name	Classification
1, 2, 4-Trimethylbenzene	Not Applicable
Cumene	Reasonably anticipated to be human carcinogens
1,2,3-trimethylbenzene	Not Applicable
Xylene	Not Applicable
Mesitylene	Not Applicable
Solvent naphtha (petroleum), heavy arom.	Not Applicable
Naphthalene	Reasonably anticipated to be human carcinogens
Solvent naphtha (petroleum), light arom.	Not Applicable
Ethyl Benzene	Not Applicable
Trimethylbenzene	Not Applicable
Diethylbenzene	Not Applicable

OSHA Carcinogens: Not applicable

Germ cell mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data:

Name	Result
Solvent naphtha (petroleum), light arom.	May cause genetic defects.

Reproductive toxicity

Assessment:

Suspected of damaging fertility or the unborn child.

Product data:

No data available.

Substance data:

Name	Result
2-ethyltoluene	Suspected of damaging fertility or the unborn child.
Toluene	Suspected of damaging the unborn child.
Diethylene Glycol Methyl Ether	Suspected of damaging fertility or the unborn child.

Specific target organ toxicity (single exposure)

Assessment:

May cause damage to organs.
May cause respiratory irritation.
May cause drowsiness or dizziness.

Product data:

No data available.

Substance data:

Name	Result
1, 2, 4-Trimethylbenzene	May cause respiratory irritation.
Cumene	May cause respiratory irritation to the upper respiratory tract via inhalation exposure.
Mesitylene	May cause respiratory irritation.
Propylbenzene	May cause respiratory irritation.
Toluene	May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure)

Assessment:

Causes damage to organs through prolonged or repeated exposure.

Product data:

No data available.

Substance data:

Name	Result
Toluene	May cause damage to organs (central nervous system; kidneys; liver) through prolonged or repeated exposure. Exposure to the substance may increase noise-induced hearing loss.
Ethyl Benzene	May cause damage to hearing organs through prolonged or repeated exposure.

Aspiration toxicity

Assessment:

May be fatal if swallowed and enters airways.

Product data:

No data available.

Substance data:

Name	Result
1, 2, 4-Trimethylbenzene	May be fatal if swallowed and enters airways.
Cumene	May be fatal if swallowed and enters airways.
Mesitylene	Maybe fatal if swallowed and enters airways.
Propylbenzene	May be fatal if swallowed and enters airways.
Cymene	May be fatal if swallowed and enters airways.
4-ethyltoluene	May be fatal if swallowed and enters airways.
Solvent naphtha (petroleum), heavy arom.	May be fatal if swallowed and enters airways.
Toluene	May be fatal if swallowed and enters airways.
Solvent naphtha (petroleum), light arom.	May be fatal if swallowed and enters airways.
Ethyl Benzene	May be fatal if swallowed and enters airways.
Diethylbenzene	May be fatal if swallowed and enters airways.

Information on likely routes of exposure:
No data available.
Symptoms related to the physical, chemical and toxicological characteristics:
No data available.
Other information:
No data available.

SECTION 12: Ecological information

Acute (short-term) toxicity

Assessment: Based on available data, the classification criteria are not met.
Product data: No data available.
Substance data:

Name	Result
1, 2, 4-Trimethylbenzene	LC50 Pimephales promelas: 7.72 mg/L (96 hours)
Cumene	LC50 Oncorhynchus mykiss: 4.8 mg/L (96 hours)
	EC50 Daphnia magna: 2.14 mg/L (48 hours)
Mesitylene	LC50 Carassius auratus: 12.52 mg/L (96 hours)
Naphthalene	LC50 Oncorhynchus mykiss: 1.6 mg/L (96 h)
	EC50 Daphnia magna: 2.16 mg/L (48 h)

Chronic (long-term) toxicity

Assessment: Based on available data, the classification criteria are not met.
Product data: No data available.
Substance data:

Name	Result
1, 2, 4-Trimethylbenzene	NOEC Various: 0.396 mg/L (30 days)
Cumene	NOEC Pimephales promelas: 0.38 mg/L (28-32 days)
	NOEC Daphnia magna: 0.35 mg/L (21 days)
Mesitylene	NOEC Daphnia magna: 0.4 mg/L (21 days)
Naphthalene	NOEC Oncorhynchus mykiss: 0.11 mg/L (4 d)
	NOEC Estuarine copepod: 0.05 mg/L (10 d)

Persistence and degradability

Product data: No data available.

Substance data:

Name	Result
1, 2, 4-Trimethylbenzene	Readily biodegradable, but failing 10-day window.
Cumene	Readily biodegradable in water.
Xylene	Readily biodegradable in water.
Mesitylene	Readily biodegradable but failing 10-day window.
Solvent naphtha (petroleum), heavy arom.	Readily to inherently biodegradable.
Naphthalene	Inherently degradable.
Toluene	Readily biodegradable in water.

Bioaccumulative potential

Product data: No data available.

Substance data:

Name	Result
1, 2, 4-Trimethylbenzene	BCF: 243
Cumene	Calculated BCF: 94.69 L/kg (low potential for bioconcentration is to be expected)
Xylene	BCF: >8.1 - <25.9
Mesitylene	BCF: 342
Naphthalene	Low bioaccumulation potential.
Toluene	BCF: 90

Mobility in soil

Product data: No data available.

Substance data:

Name	Result
1, 2, 4-Trimethylbenzene	Slightly Mobile (log Koc: 3.04)
Cumene	Moderately Mobile (Calculated log Koc: 2.946)
Xylene	Moderately Mobile (Log Koc: 2.73)
Naphthalene	Adsorption to soil materials to a moderate extent.
Toluene	Moderately Mobile (Calculated Koc: 205)

Results of PBT and vPvB assessment

Product data:

PBT assessment: This product does not contain any substances that are assessed to be a PBT.

vPvB assessment: This product does not contain any substances that are assessed to be a vPvB.

Substance data:

PBT assessment:

1, 2, 4-Trimethylbenzene	This substance is not PBT.
Cumene	Substance is not PBT.
Mesitylene	Substance is not PBT.
Solvent naphtha (petroleum), heavy arom.	The substance is not PBT.
Naphthalene	The substance is not PBT.

vPvB assessment:

1, 2, 4-Trimethylbenzene	This substance is not vPvB.
Cumene	Substance is not vPvB.
Mesitylene	Substance is not vPvB.
Solvent naphtha (petroleum), heavy arom.	The substance is not vPvB.
Naphthalene	The substance is not vPvB.

Other adverse effects: No data available.

SECTION 13: Disposal considerations

Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

Contaminated packages:

Not determined or not applicable.

SECTION 14: Transport information

United States Transportation of dangerous goods (49 CFR DOT)

UN number	NA 1993
UN proper shipping name	Combustible liquid n.o.s Solvent naphtha, 1,2,4-Trimethylbenzene
UN transport hazard class(es)	3 
Packing group	III
Environmental hazards	None
Special precautions for user	None
Additional Information	Pursuant to 49 CFR 173.120(b)(2) and 49 CFR 173.150(f), flammable liquid with a flash point at or above 100°F may be reclassified as a combustible liquid for transportation within the U.S. by motor vehicle or rail only. This material is not regulated for US DOT transportation in quantities less than 119 gallons

International Maritime Dangerous Goods (IMDG)

UN number	This product is not shipped under this Transport Mode
UN proper shipping name	This product is not shipped under this Transport Mode
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	This product is not shipped under this Transport Mode
UN proper shipping name	This product is not shipped under this Transport Mode
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None

Special precautions for user	None

SECTION 15: Regulatory information

United States regulations

Inventory listing (TSCA):

95-63-6	1, 2, 4-Trimethylbenzene	Listed
98-82-8	Cumene	Listed
526-73-8	1,2,3-trimethylbenzene	Listed
1330-20-7	Xylene	Listed
611-14-3	2-ethyltoluene	Listed
108-67-8	Mesitylene	Listed
103-65-1	Propylbenzene	Listed
25155-15-1	Cymene	Listed
620-14-4	3-ethyltoluene	Not Listed
622-96-8	4-ethyltoluene	Listed
N/A	Other Aromatic Hydrocarbons (C9 - C10)	Listed
64742-94-5	Solvent naphtha (petroleum), heavy arom.	Listed
91-20-3	Naphthalene	Listed
108-88-3	Toluene	Listed
64742-95-6	Solvent naphtha (petroleum), light arom.	Listed
100-41-4	Ethyl Benzene	Listed
25551-13-7	Trimethylbenzene	Listed
25340-17-4	Diethylbenzene	Listed
111-77-3	Diethylene Glycol Methyl Ether	Listed

Significant New Use Rule (TSCA Section 5): None of the ingredients are listed.

Export notification under TSCA Section 12(b): None of the ingredients are listed.

SARA Section 302 extremely hazardous substances: None of the ingredients are listed.

SARA Section 313 toxic chemicals:

95-63-6	1, 2, 4-Trimethylbenzene	Listed
98-82-8	Cumene	Listed
1330-20-7	Xylene	Listed
91-20-3	Naphthalene	Listed
108-88-3	Toluene	Listed
100-41-4	Ethyl Benzene	Listed
111-77-3	Diethylene Glycol Methyl Ether	Listed

CERCLA:

98-82-8	Cumene	Listed	5000
1330-20-7	Xylene	Listed	100 lb
91-20-3	Naphthalene	Listed	100 lb
108-88-3	Toluene	Listed	1000
100-41-4	Ethyl Benzene	Listed	1000

RCRA:

98-82-8	Cumene	Listed	U055
1330-20-7	Xylene	Listed	U239
91-20-3	Naphthalene	Listed	U165
108-88-3	Toluene	Listed	U220
100-41-4	Ethyl Benzene	Listed	F003

Section 112(r) of the Clean Air Act (CAA): None of the ingredients are listed.

Massachusetts Right to Know:

95-63-6	1, 2, 4-Trimethylbenzene	Listed
98-82-8	Cumene	Listed
526-73-8	1,2,3-trimethylbenzene	Listed
1330-20-7	Xylene	Listed
611-14-3	2-ethyltoluene	Not Listed
108-67-8	Mesitylene	Listed
103-65-1	Propylbenzene	Listed
25155-15-1	Cymene	Not Listed
620-14-4	3-ethyltoluene	Not Listed
622-96-8	4-ethyltoluene	Not Listed
64742-94-5	Solvent naphtha (petroleum), heavy arom.	Listed
91-20-3	Naphthalene	Listed
108-88-3	Toluene	Listed
64742-95-6	Solvent naphtha (petroleum), light arom.	Not Listed
100-41-4	Ethyl Benzene	Listed
25551-13-7	Trimethylbenzene	Listed
25340-17-4	Diethylbenzene	Not Listed
111-77-3	Diethylene Glycol Methyl Ether	Listed

New Jersey Right to Know:

95-63-6	1, 2, 4-Trimethylbenzene	Listed
98-82-8	Cumene	Listed
526-73-8	1,2,3-trimethylbenzene	Listed
1330-20-7	Xylene	Listed
611-14-3	2-ethyltoluene	Listed
108-67-8	Mesitylene	Listed
103-65-1	Propylbenzene	Listed
25155-15-1	Cymene	Listed
620-14-4	3-ethyltoluene	Listed
622-96-8	4-ethyltoluene	Listed
64742-94-5	Solvent naphtha (petroleum), heavy arom.	Listed
91-20-3	Naphthalene	Listed

108-88-3	Toluene	Listed
64742-95-6	Solvent naphtha (petroleum), light arom.	Not Listed
100-41-4	Ethyl Benzene	Listed
25551-13-7	Trimethylbenzene	Listed
25340-17-4	Diethylbenzene	Not Listed
111-77-3	Diethylene Glycol Methyl Ether	Listed

New York Right to Know:

95-63-6	1, 2, 4-Trimethylbenzene	Listed
98-82-8	Cumene	Listed
526-73-8	1,2,3-trimethylbenzene	Listed
1330-20-7	Xylene	Listed
611-14-3	2-ethyltoluene	Not Listed
108-67-8	Mesitylene	Listed
103-65-1	Propylbenzene	Listed
25155-15-1	Cymene	Listed
620-14-4	3-ethyltoluene	Not Listed
622-96-8	4-ethyltoluene	Not Listed
64742-94-5	Solvent naphtha (petroleum), heavy arom.	Listed
91-20-3	Naphthalene	Listed
108-88-3	Toluene	Listed
64742-95-6	Solvent naphtha (petroleum), light arom.	Not Listed
100-41-4	Ethyl Benzene	Listed
25551-13-7	Trimethylbenzene	Listed
25340-17-4	Diethylbenzene	Listed
111-77-3	Diethylene Glycol Methyl Ether	Listed

Pennsylvania Right to Know:

95-63-6	1, 2, 4-Trimethylbenzene	Listed
98-82-8	Cumene	Listed
526-73-8	1,2,3-trimethylbenzene	Listed
1330-20-7	Xylene	Listed
611-14-3	2-ethyltoluene	Not Listed
108-67-8	Mesitylene	Listed
103-65-1	Propylbenzene	Listed
25155-15-1	Cymene	Not Listed
620-14-4	3-ethyltoluene	Not Listed

622-96-8	4-ethyltoluene	Not Listed
64742-94-5	Solvent naphtha (petroleum), heavy arom.	Listed
91-20-3	Naphthalene	Listed
108-88-3	Toluene	Listed
64742-95-6	Solvent naphtha (petroleum), light arom.	Not Listed
100-41-4	Ethyl Benzene	Listed
25551-13-7	Trimethylbenzene	Listed
25340-17-4	Diethylbenzene	Not Listed
111-77-3	Diethylene Glycol Methyl Ether	Listed

California Proposition 65:

⚠**WARNING:** This product can expose you to chemicals including Cumene, Naphthalene and Ethyl Benzene; which are known to the State of California to cause cancer; and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered 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 materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

Initial preparation date: 11.05.2020

End of Safety Data Sheet