Aromatic Solvent-104-104B

Safety Data Sheet

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SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Name: Aromatic Solvent-104-104B

Product Code: 327, 328, 4166

Synonyms: Aromatic Solvent - 104 - 104B, Heavy Aromatic Naphtha

1.2. Intended Use of the Product

No additional information available

1.3. Name, Address, and Telephone of the Responsible Party

Company

Delek US
200 Refinery Road
Big Spring, TX 79720
Phone #: 432-263-7661

Delek US
365 S. Levee Road
Krotz Springs, LA 70750
Phone #: 337-566-0175

Delek US
425 N. McMurrey Drive
Tyler, TX 75702
Phone #: 903-579-3400

Delek US
1000 Mc Henry St.
El Dorado, AR 71730
Phone #: 615-771-6701

1.4. Emergency Telephone Number

Emergency Number : 800-424-9300
CHEMTREC – TOLL FREE 24 HOUR EMERGENCY TELEPHONE NUMBER

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

GHS-US Classification

Flammable liquids Category 3	H226
Skin corrosion/irritation Category 2	H315
Serious eye damage/eye irritation Category 2	H319
Skin sensitization, Category 1	H317
Reproductive toxicity Category 2	H361
Specific target organ toxicity – Single exposure, Category 3, Narcosis	H336
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	H335
Aspiration hazard Category 1	H304
Hazardous to the aquatic environment – Acute Hazard Category 1	H400
Hazardous to the aquatic environment – Chronic Hazard Category 2	H411

2.2. Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US) :

Signal Word (GHS-US) : Danger

Hazard Statements (GHS-US) : H226 - Flammable liquid and vapor.
H304 - May be fatal if swallowed and enters airways.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H335 - May cause respiratory irritation.
H336 - May cause drowsiness or dizziness.
H361 - Suspected of damaging fertility or the unborn child.
H400 - Very toxic to aquatic life.
H411 - Toxic to aquatic life with long lasting effects.

Precautionary Statements (GHS-US) : P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 - Keep container tightly closed.
P240 - Ground/Bond container and receiving equipment.
P241 - Use explosion-proof electrical, ventilating, and lighting equipment.
P242 - Use only non-sparking tools.
P243 - Take precautionary measures against static discharge.
P261 - Avoid breathing vapors, mist, spray.
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P272 - Contaminated work clothing must not be allowed out of the workplace.
P273 - Avoid release to the environment.
P280 - Wear protective gloves, protective clothing, eye protection, face protection, respiratory protection.
P301+P310 - If swallowed: Immediately call a poison center or doctor.
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 - If inhaled: Remove person 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.
P321 - Specific treatment (see section 4 on this SDS).
P331 - Do NOT induce vomiting.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P370+P378 - In case of fire: Use appropriate media to extinguish.
P391 - Collect spillage.
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, and international regulations.

2.3. Other Hazards

Flammable vapors can accumulate in head space of closed systems. Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

2.4. Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

Name	Synonyms	Product Identifier	%	GHS US classification
Solvent naphtha, petroleum, heavy aromatic	Aromatic 150 / Solvent naphtha (petroleum) heavy aromatic / Heavy aromatic naphtha / Naphtha (petroleum), heavy aromatic / Hydrocarbons, C10-13, aromatics, >1% naphthalene / Solvent naphtha (petroleum), heavy aromatic; Kerosine - unspecified [A complex combination of hydrocarbons obtained from distillation of aromatic streams. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approximately 165°C to 290°C (330°F to 554°F).] / Solvent naphtha / Heavy aromatic solvent naphtha (petroleum) / Solvent naphtha (petroleum), heavy arom. / Solvent naphtha heavy aromatic / Heavy aromatic solvent naphtha / Solvent naphtha (petroleum), heavy aromatic	(CAS-No.) 64742-94-5	34.17	Flam. Liq. 3, H226 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 2, H411

Benzene, 1,2,4-trimethyl-	Pseudocumene / 1,2,4-Trimethylbenzene / Trimethylbenzene / Trimethylbenzene, 1,2,4-	(CAS-No.) 95-63-6	21.47	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
m-Ethyltoluene	Benzene, 1-ethyl-3-methyl- / 3-Ethyltoluene / Toluene, 3-ethyl- / Ethyltoluene, m- / 1-Methyl-3-ethylbenzene / m-ethyltoluene	(CAS-No.) 620-14-4	7.67	Flam. Liq. 3, H226
1,2,3-Trimethylbenzene	Trimethylbenzene, 1,2,3- / Hemimellitene / Benzene, 1,2,3-trimethyl-	(CAS-No.) 526-73-8	5.59	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
1,3,5-Trimethylbenzene	Benzene, 1,3,5-trimethyl- / Mesitylene / sym-Trimethylbenzene / Trimethylbenzene, 1,3,5- / MESITYLENE	(CAS-No.) 108-67-8	5.19	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
o-Ethyltoluene	Benzene, 1-ethyl-2-methyl- / 2-Ethyltoluene / Toluene, 2-ethyl- / Toluene, o-ethyl- / 1-Methyl-2-ethylbenzene / 1-Ethyl-2-methylbenzene / o-ethyltoluene	(CAS-No.) 611-14-3	4.28	Flam. Liq. 3, H226 Eye Irrit. 2, H319 Repr. 2, H361 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Benzene, 4-ethyl-1,2-dimethyl-	Benzene, 1,2-dimethyl-4-ethyl- / 4-Ethyl-o-xylene / Dimethyl-4-ethylbenzene, 1,2- / 1,2-Dimethyl-4-ethylbenzene / 4-Ethyl-1,2-dimethyl-benzene / 4-Ethane-1-yl-1,2-dimethylbenzene	(CAS-No.) 934-80-5	3.84	Not classified.
p-Ethyltoluene	Benzene, 1-ethyl-4-methyl- / 4-Ethyltoluene / Toluene, 4-ethyl- / Toluene, p-ethyl- / Ethyltoluene, p- / 1-Ethyl-4-methylbenzene / 1-Methyl-4-ethylbenzene / p-ethyltoluene	(CAS-No.) 622-96-8	3.73	Flam. Liq. 3, H226 Asp. Tox. 1, H304
Decane, 3-methyl-	3-Methyldecane	(CAS-No.) 13151-34-3	2.8	Flam. Liq. 3, H226 Asp. Tox. 1, H304
Benzene, 1-ethyl-3,5-dimethyl-	5-Ethyl-m-xylene / 1-Ethyl-3,5-dimethylbenzene / Dimethyl-5-ethylbenzene, 1,3- / 1,3-Dimethyl-5-ethylbenzene	(CAS-No.) 934-74-7	2.79	Flam. Liq. 3, H226 Eye Irrit. 2, H319 Skin Sens. 1, H317 Asp. Tox. 1, H304
p-Xylene	Benzene, 1,4-dimethyl- / 1,4-Dimethylbenzene / p-Dimethylbenzene / 1,4-Xylene / Xylene, p- / Xylene, p-isomer / Benzene, p-dimethyl- / Xylene, para- / 4-Xylene / para-Xylene / p-Xylol	(CAS-No.) 106-42-3	2.49	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 3, H412
1,2,3,5-Tetramethylbenzene	Benzene, 1,2,3,5-tetramethyl- / Tetramethylbenzene, 1,2,3,5- / Isodurene / isodurene	(CAS-No.) 527-53-7	2.28	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2B, H320 STOT SE 3, H335

Benzene, 1-ethyl-2,4-dimethyl-	Benzene, 1,3-dimethyl-4-ethyl- / 4-Ethyl-m-xylene / Dimethyl-4-ethylbenzene, 1,3- / 1,3-Dimethyl-4-ethylbenzene / 1-Ethyl-2,4-dimethylbenzene	(CAS-No.) 874-41-9	2.02	Flam. Liq. 3, H226 Eye Irrit. 2, H319 Skin Sens. 1, H317 Asp. Tox. 1, H304
1,2,4,5-Tetramethylbenzene	Benzene, 1,2,4,5-tetramethyl- / Tetramethylbenzene, 1,2,4,5- / sym-Tetramethylbenzene / Durene	(CAS-No.) 95-93-2	1.68	Flam. Sol. 1, H228 Aquatic Chronic 4, H413

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of First-aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid Measures After Inhalation: When symptoms occur: go into open air and ventilate suspected area. Give oxygen or artificial respiration if necessary. Obtain medical attention if breathing difficulty persists.

First-aid Measures After Skin Contact: Immediately remove contaminated clothing. Immediately drench affected area with water for at least 15 minutes. After rinsing with water, then wash with plenty of soap and water. Obtain medical attention if irritation/rash develops or persists. Wash contaminated clothing before reuse.

First-aid Measures After Eye Contact: Immediately rinse with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

First-aid Measures After Ingestion: Do NOT induce vomiting. Place affected person on their side. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

Symptoms/Injuries: May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness and dizziness. Suspected of damaging fertility or the unborn child. Skin sensitization.

Symptoms/Injuries After Inhalation: Irritation of the respiratory tract and the other mucous membranes. High concentrations may cause central nervous system depression such as dizziness, vomiting, numbness, drowsiness, headache, and similar narcotic symptoms.

Symptoms/Injuries After Skin Contact: Redness, pain, swelling, itching, burning, dryness, and dermatitis. May cause an allergic skin reaction.

Symptoms/Injuries After Eye Contact: Contact causes severe irritation with redness and swelling of the conjunctiva.

Symptoms/Injuries After Ingestion: Aspiration into the lungs can occur during ingestion or vomiting and may cause lung injury.

Chronic Symptoms: Suspected of damaging fertility or the unborn child.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO_2). Water may be ineffective but water should be used to keep fire-exposed container cool.

Unsuitable Extinguishing Media: Use of heavy stream of water may spread fire. Do not use a heavy water stream. A heavy water stream may spread burning liquid.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Flammable liquid and vapor. Vapors may travel to source of ignition and flash back.

Explosion Hazard: May form flammable or explosive vapor-air mixture.

Reactivity: Reacts violently with strong oxidizers. Increased risk of fire or explosion.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon oxides (CO, CO_2). Unidentified organic compounds. Smoke.

Other Information: Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Use special care to avoid static electric charges. Do not get in eyes, on skin, or on clothing. Do not breathe vapor, mist or spray.

6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel. Stop leak if safe to do so.

6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Eliminate ignition sources first, then ventilate the area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

6.2. Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment. Collect spillage.

6.3. Methods and Materials for Containment and Cleaning Up

For Containment: As an immediate precautionary measure, isolate spill or leak area in all directions. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Use only non-sparking tools. Absorb and/or contain spill with inert material. Do not take up in combustible material such as: saw dust or cellulosic material. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: Vapors are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapors. Flammable vapors may accumulate in the head space of closed systems. Container may remain hazardous when empty. Handle empty containers with care because residual vapors are flammable.

Precautions for Safe Handling: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only non-sparking tools. Keep away from heat, sparks, open flames, and hot surfaces. No smoking. Take precautionary measures against static discharge. Do not get in eyes, on skin, or on clothing. Do not breathe vapor, mist, or spray. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Use explosion-proof electrical, ventilating, and lighting equipment. Take action to prevent static discharges. Ground and bond container and receiving equipment. Comply with applicable regulations.

Storage Conditions: Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store locked up/in a secure area. Store in a well-ventilated place. Keep container tightly closed. Keep in fireproof place.

Incompatible Materials: Strong acids, strong bases, strong oxidizers. Halogens.

7.3. Specific End Use(s)

No additional information available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

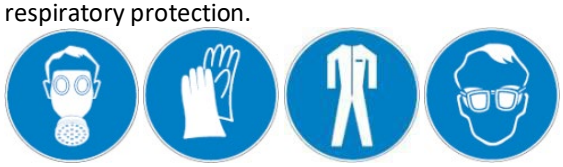
Aromatic Solvent-104-104B		
	Internal OEL Value(s)	10 mg/m³ Recommended
1,3,5-Trimethylbenzene (108-67-8)		
USA ACGIH	ACGIH OEL TWA [ppm]	10 ppm (Trimethylbenzene, isomers)
USA NIOSH	NIOSH REL (TWA)	125 mg/m³
USA NIOSH	NIOSH REL TWA [ppm]	25 ppm
Benzene, 1,2,4-trimethyl- (95-63-6)		
USA ACGIH	ACGIH OEL TWA [ppm]	10 ppm (Trimethylbenzene, isomers)
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA NIOSH	NIOSH REL (TWA)	125 mg/m³

USA NIOSH	NIOSH REL TWA [ppm]	25 ppm
1,2,3-Trimethylbenzene (526-73-8)		
USA ACGIH	ACGIH OEL TWA [ppm]	10 ppm (Trimethylbenzene, isomers)
USA NIOSH	NIOSH REL (TWA)	125 mg/m³
USA NIOSH	NIOSH REL TWA [ppm]	25 ppm
p-Xylene (106-42-3)		
USA ACGIH	ACGIH OEL TWA [ppm]	20 ppm
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA ACGIH	BEI (BLV)	1.5 g/g Kreatinin Parameter: Methylhippuric acids - Medium: urine - Sampling time: end of shift (technical or commercial grade)
USA NIOSH	NIOSH REL (TWA)	435 mg/m³
USA NIOSH	NIOSH REL TWA [ppm]	100 ppm
USA NIOSH	NIOSH REL (STEL)	655 mg/m³
USA NIOSH	NIOSH REL STEL [ppm]	150 ppm
USA IDLH	IDLH [ppm]	900 ppm

8.2. Exposure Controls

Appropriate Engineering Controls : Ensure adequate ventilation, especially in confined areas. Use explosion-proof equipment. Proper grounding procedures to avoid static electricity should be followed. Gas detectors should be used when flammable gases or vapors may be released. Gas detectors should be used when toxic gases may be released. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

Personal Protective Equipment : Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.



Materials for Protective Clothing : Chemically resistant materials and fabrics. Wear fire/flame resistant/retardant clothing.

Hand Protection : Wear protective gloves.

Eye and Face Protection : Chemical safety goggles.

Skin and Body Protection : Wear suitable protective clothing.

Respiratory Protection : If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Other Information : When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State : Liquid

Appearance : Straw.

Odor : Aromatic.

Odor Threshold : No data available

pH : No data available

Evaporation Rate : No data available

Melting Point : No data available

Freezing Point : No data available

Boiling Point : 160 – 246.5 °C (320°F - 476°F)

Flash Point : 37.8 °C (100°F)

Auto-ignition Temperature : No data available

Decomposition Temperature : No data available

Flammability (solid, gas) : Not applicable

Vapor Pressure : < 1 mm Hg (@20°C (68°F))

Relative Vapor Density at 20°C : 4.5 (Air=1)

Relative Density : No data available

Specific Gravity : 0.88 (Water=1)

Solubility : Negligible.

Partition Coefficient: N-Octanol/Water : No data available

Viscosity : No data available

9.2. Other Information

No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reacts violently with strong oxidizers. Increased risk of fire or explosion.

10.2. Chemical Stability

Flammable liquid and vapor. May form flammable or explosive vapor-air mixture.

10.3. Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

10.4. Conditions to Avoid

Direct sunlight, extremely high or low temperatures, heat, hot surfaces, sparks, open flames, incompatible materials, and other ignition sources.

10.5. Incompatible Materials

Strong acids, strong bases, strong oxidizers. Halogens.

10.6. Hazardous Decomposition Products

Thermal decomposition may produce: Carbon oxides (CO, CO2).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects

Acute Toxicity (Oral): Not classified.

Acute Toxicity (Dermal): Not classified.

Acute Toxicity (Inhalation): Not classified.

p-Ethyltoluene (622-96-8)	
LD50 Oral Rat	4850 mg/kg (Source: EPA_HPV)
LD50 Dermal Rabbit	> 5000 mg/kg (Source: CHEMVIEW)
LC50 Inhalation Rat	> 3900 ppm (Exposure time: 6 h Source: EPA_HPV)

1,3,5-Trimethylbenzene (108-67-8)	
LC50 Inhalation Rat	24 g/m³ (Exposure time: 4 h Source: NLM_CIP)

Benzene, 1,2,4-trimethyl- (95-63-6)	
LD50 Oral Rat	3280 – 3550 mg/kg
LD50 Dermal Rabbit	> 3160 mg/kg (No mortalities)
LC50 Inhalation Rat	18 g/m³ (Exposure time: 4 h)
LC50 Inhalation Rat	10.8 mg/l/4h
ATE (Gases)	4,500.00 ppmV/4h
ATE (Dust/Mist)	1.50 mg/l/4h

p-Xylene (106-42-3)	
LD50 Oral Rat	4029 mg/kg (Source: JAPAN_GHS)
LD50 Dermal Rabbit	12126 mg/kg (Source: ECHA_API)
LC50 Inhalation Rat	4740 ppm/4h
ATE (Dermal)	1,100.00 mg/kg body weight
ATE (Vapors)	11.00 mg/l/4h

1,2,4,5-Tetramethylbenzene (95-93-2)	
LD50 Oral Rat	6989 mg/kg (Source: NLM_CIP)

1,2,3,5-Tetramethylbenzene (527-53-7)	
LD50 Oral Rat	5157 mg/kg (Source: NLM_CIP)

Solvent naphtha, petroleum, heavy aromatic (64742-94-5)	
LD50 Oral Rat	> 5000 mg/kg (Source: IUCLID)
LD50 Dermal Rabbit	> 2000 mg/kg (Source: ECHA_API)

Skin Corrosion/Irritation: Causes skin irritation.

Serious Eye Damage/Irritation: Causes serious eye irritation.

Respiratory or Skin Sensitization: May cause an allergic skin reaction.

Germ Cell Mutagenicity: Not classified.

Carcinogenicity: Not classified.

p-Xylene (106-42-3)	
IARC group	3

Reproductive Toxicity: Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity (Single Exposure): May cause drowsiness or dizziness. May cause respiratory irritation.

Specific Target Organ Toxicity (Repeated Exposure): Not classified.

Aspiration Hazard: May be fatal if swallowed and enters airways.

Symptoms/Injuries After Inhalation: Irritation of the respiratory tract and the other mucous membranes. High concentrations may cause central nervous system depression such as dizziness, vomiting, numbness, drowsiness, headache, and similar narcotic symptoms.

Symptoms/Injuries After Skin Contact: Redness, pain, swelling, itching, burning, dryness, and dermatitis. May cause an allergic skin reaction.

Symptoms/Injuries After Eye Contact: Contact causes severe irritation with redness and swelling of the conjunctiva.

Symptoms/Injuries After Ingestion: Aspiration into the lungs can occur during ingestion or vomiting and may cause lung injury.

Chronic Symptoms: Suspected of damaging fertility or the unborn child.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General : Toxic to aquatic life with long lasting effects. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

1,3,5-Trimethylbenzene (108-67-8)	
LC50 Fish 1	3.48 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
EC50 - Crustacea [1]	6 mg/l
NOEC Chronic Crustacea	0.4 mg/l

Benzene, 1,2,4-trimethyl- (95-63-6)	
LC50 Fish 1	7.19 (7.19 – 8.28) mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 - Crustacea [1]	6.14 mg/l (Exposure time: 48 h - Species: Daphnia magna)

1,2,3-Trimethylbenzene (526-73-8)	
EC50 - Crustacea [1]	2.7 mg/l
NOEC Chronic Algae	0.38 mg/l

p-Xylene (106-42-3)	
LC50 Fish 1	7.2 – 9.9 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA)
EC50 - Crustacea [1]	3.55 – 6.31 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 Fish 2	2.6 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: EPA)
NOEC Chronic Crustacea	1.17 mg/l

Solvent naphtha, petroleum, heavy aromatic (64742-94-5)	
LC50 Fish 1	19 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: IUCLID)
EC50 - Crustacea [1]	0.95 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 Fish 2	2.34 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: IUCLID)

12.2. Persistence and Degradability

Aromatic Solvent-104-104B	
Persistence and Degradability	May cause long-term adverse effects in the environment.

12.3. Bioaccumulative Potential

Aromatic Solvent-104-104B	
Bioaccumulative Potential	Not established.

Benzene, 1,2,4-trimethyl- (95-63-6)	
Partition coefficient n-octanol/water (Log Pow)	3.63

p-Xylene (106-42-3)	
BCF Fish 1	2.2

Partition coefficient n-octanol/water (Log Pow)	3.2 at 20 °C (at pH 7)

Solvent naphtha, petroleum, heavy aromatic (64742-94-5)	
BCF Fish 1	61 – 159
Partition coefficient n-octanol/water (Log Pow)	2.8 – 6.5 at 23 °C (at pH 6.2)

12.4. Mobility in Soil

No additional information available

12.5. Other Adverse Effects

Other Information : Middle distillates are potentially toxic to freshwater and saltwater ecosystems. Distillate fuels will normally float on water. In stagnant or slow-flowing waterways, a hydrocarbon layer can cover a large surface area. As a result, this oil layer can limit or eliminate natural atmospheric oxygen transport into the water. With time, if not removed, oxygen depletion in the waterway can cause a fish kill or create an anaerobic environment. This coating action can also kill plankton, algae, and water birds. Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste Treatment Methods

Sewage Disposal Recommendations: Do not dispose of waste into sewer.

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, and international regulations.

Additional Information: Handle empty containers with care because residual vapors are flammable.

Ecology - Waste Materials: Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

14.1. In Accordance with DOT

Proper Shipping Name : PETROLEUM DISTILLATES, N.O.S

Hazard Class : 3

Identification Number : UN1268

Label Codes : 3

Packing Group : III

Marine Pollutant : Marine pollutant

ERG Number : 128

14.2. In Accordance with IMDG

Proper Shipping Name : PETROLEUM DISTILLATES, N.O.S.

Hazard Class : 3

Identification Number : UN1268

Packing Group : III

Label Codes : 3

EmS-No. (Fire) : F-E

EmS-No. (Spillage) : S-E

Marine Pollutant : Marine pollutant

14.3. In Accordance with IATA

Proper Shipping Name : PETROLEUM DISTILLATES, N.O.S.

Packing Group : III

Identification Number : UN1268

Hazard Class : 3

Label Codes : 3

ERG Code (IATA) : 3L

SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations

Aromatic Solvent-104-104B	
SARA Section 311/312 Hazard Classes	Health hazard - Specific target organ toxicity (single or repeated exposure) Health hazard - Reproductive toxicity Health hazard - Respiratory or skin sensitization Health hazard - Skin corrosion or Irritation Physical hazard - Flammable (gases, aerosols, liquids, or solids) Health hazard - Serious eye damage or eye irritation Health hazard - Aspiration hazard

p-Ethyltoluene (622-96-8)
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

1,3,5-Trimethylbenzene (108-67-8)
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

o-Ethyltoluene (611-14-3)
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Benzene, 1,2,4-trimethyl- (95-63-6)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Subject to reporting requirements of United States SARA Section 313	
SARA Section 313 - Emission Reporting	1 %

1,2,3-Trimethylbenzene (526-73-8)
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

p-Xylene (106-42-3)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Subject to reporting requirements of United States SARA Section 313	
CERCLA RQ	100 lb
SARA Section 313 - Emission Reporting	1 %

Benzene, 1-ethyl-3,5-dimethyl- (934-74-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Benzene, 1-ethyl-2,4-dimethyl- (874-41-9)
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Benzene, 4-ethyl-1,2-dimethyl- (934-80-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

1,2,4,5-Tetramethylbenzene (95-93-2)
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

1,2,3,5-Tetramethylbenzene (527-53-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Solvent naphtha, petroleum, heavy aromatic (64742-94-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

15.2. US State Regulations

1,3,5-Trimethylbenzene (108-67-8)
U.S. - Massachusetts - Right To Know List

Benzene, 1,2,4-trimethyl- (95-63-6)
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Massachusetts - Right To Know List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

p-Xylene (106-42-3)
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Massachusetts - Right To Know List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Date of Preparation or Latest Revision : 05/02/2024

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200

GHS Full Text Phrases:

H226	Flammable liquid and vapor
H227	Combustible liquid
H228	Flammable solid
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H320	Causes eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H361	Suspected of damaging fertility or the unborn child
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects
H413	May cause long lasting harmful effects to aquatic life

Glossary of Data Source Abbreviations

ATSDR: Agency for Toxic Substances and Disease Registry (U.S. Department of Health and Human Services)
AU_WES: Australia WES
CHEMVIEW: ChemView (U.S. Environmental Protection Agency)
EC_RAR: European Commission Renewal Assessment Report
EC_SCOEL: European Commission Scientific Committee on Occupational Exposure Limits
ECETOC: European Centre for Ecotoxicology and Toxicology of Chemicals Reports
ECHA_API: European Chemicals Agency API
ECHA_RAC: ECHA Committee for Risk Assessment
EFSA: European Food Safety Authority
EPA: U.S. Environmental Protection Agency
EPA_AEGL: Acute Exposure Guideline Levels (U.S. Environmental Protection Agency)
EPA_FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act Reregistration Eligibility Decision (U.S. Environmental Protection Agency)
EPA_HPV: High Production Volume Chemicals (U.S. Environmental Protection Agency)
EPA_TRED: Risk Assessment for Tolerance Reassessment Eligibility Decision (U.S. Environmental Protection Agency)
EU_CLH: European Union Harmonised Classification and Labelling Proposal
EU_RAR: European Union Risk Assessment Report
FOOD_JOURN: Food Research Journal (1956)
IARC: The International Agency for Research on Cancer
IDLH: National Institute for Occupational Health and Safety Immediately Dangerous to Life or Health Value Profiles
IUCLID: International Uniform Chemical Information Database
JAPAN_GHS: Japan GHS Basis for Classification Data
JP_J-CHECK: Japan J-Check
KR_NIER: South Korea National Institute of Environmental Research Evaluations
NICNAS: Australia National Industrial Chemicals Notification and Assessment Scheme
NIOSH: National Institute for Occupational Health and Safety (U.S. Department of Health and Human Services)
NLM_CIP: National Library of Medicine ChemID plus database
NLM_HSDB: National Library of Medicine Hazardous Substance Data Bank
NLM_PUBMED: National Library of Medicine PubMed database
NTP: National Toxicology Program
NZ_CCID: New Zealand Chemical Classification and Information Database
OECD_EHSP: Environment, Health, and Safety Publication (Organisation for Economic Co-operation and Development)
OECD_SIDS: Screening Information Data Sets (Organisation for Economic Co-operation and Development)
WHO: World Health Organization

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

SDS US (GHS HazCom)