

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

1.1. Product identifier

Product form : Mixture
 Product name : Piano Aromatic Mixture
 Product code : SG-2038-01902

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

Use of the substance/mixture : Laboratory chemicals

1.3. Details of the supplier of the safety data sheet

Air Liquide
 2700 Post Oak Boulevard
 Houston, TX 77056 - USA
 T 1-800-819-1704
www.us.airliquide.com

1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Flam. Liq. 2	H225
Acute Tox. 4 (Inhalation:vapour)	H332
Skin Irrit. 2	H315
Eye Dam. 1	H318
Skin Sens. 1	H317
Muta. 1B	H340
Carc. 1A	H350
Repr. 2	H361
STOT SE 3	H335
STOT RE 1	H372
Asp. Tox. 1	H304

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

H225 - Highly flammable liquid and vapor
 H304 - May be fatal if swallowed and enters airways
 H315 - Causes skin irritation
 H317 - May cause an allergic skin reaction
 H318 - Causes serious eye damage
 H332 - Harmful if inhaled
 H340 - May cause genetic defects (Inhalation)
 H350 - May cause cancer
 H361 - Suspected of damaging fertility or the unborn child
 H372 - Causes damage to organs (central nervous system, hematopoietic system) through prolonged or repeated exposure
 CGA-HG22 - Corrosive to the respiratory tract.

Precautionary statements (GHS-US) :

P202 - Do not handle until all safety precautions have been read and understood
 P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking
 P233 - Keep container tightly closed
 P240 - Ground/bond container and receiving equipment
 P241 - Use explosion-proof electrical, lighting, ventilating equipment

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P242 - Use only non-sparking tools
P243 - Take precautionary measures against static discharge
P260 - Do not breathe mist, vapors
P264 - Wash hands thoroughly after handling
P271 - Use only outdoors or in a well-ventilated area
P280 - Wear eye protection, face protection, protective gloves, protective clothing
P284 - Wear respiratory protection. Consult respirator supplier's product information for the selection of the appropriate respiratory protection.
P301+P312 - If swallowed: Call a doctor if you feel unwell
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 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
P331 - Do NOT induce vomiting
P381 - Eliminate all ignition sources if safe to do so
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P405 - Store locked up
P501 - Dispose of contents/container in accordance with local/regional/national/international regulations

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

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Name	Product identifier	%	GHS-US classification
Benzene	(CAS No) 71-43-2	11.05629	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Muta. 1B, H340 Carc. 1A, H350 STOT RE 1, H372 Asp. Tox. 1, H304
Ethylbenzene	(CAS No) 100-41-4	7.70576	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation:vapour), H332 STOT RE 2, H373 Asp. Tox. 1, H304
Toluene	(CAS No) 108-88-3	6.01031	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304
p-Xylene	(CAS No) 106-42-3	5.48104	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315
n-PROPYL BENZENE	(CAS No) 103-65-1	4.58847	Flam. Liq. 3, H226 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
tert-Butylbenzene	(CAS No) 98-06-6	4.14442	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315
ISOBUTYLBENZENE	(CAS No) 538-93-2	3.98295	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
n-PENTYL BENZENE	(CAS No) 538-68-1	3.64655	Aquatic Chronic 3, H412
1,3,5-TRIETHYLBENZENE	(CAS No) 102-25-0	3.39538	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Aquatic Chronic 4, H413
n-Hexylbenzene	(CAS No) 1077-16-3	3.34604	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
m-xylene	(CAS No) 108-38-3	2.58353	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315
O-XYLENE	(CAS No) 95-47-6	2.57456	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:vapour), H332
1,2,4-TRIMETHYLBENZENE	(CAS No) 95-63-6	2.55214	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Aquatic Chronic 2, H411
1-METHYL-2-ETHYL BENZENE	(CAS No) 611-14-3	2.26508	Flam. Liq. 3, H226 Eye Irrit. 2A, H319 Repr. 2, H361 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
ISOPROPYL BENZENE	(CAS No) 98-82-8	2.23816	Flam. Liq. 3, H226 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
1-METHYL-3-ETHYL BENZENE	(CAS No) 620-14-4	2.21574	Flam. Liq. 3, H226 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
1-Methyl-4-Ethylbenzene	(CAS No) 622-96-8	2.18434	Flam. Liq. 3, H226 Asp. Tox. 1, H304

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Name	Product identifier	%	GHS-US classification
1,4-DIMETHYL-2-ETHYLBENZENE	(CAS No) 1758-88-9	2.05875	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
1,2-DIMETHYL-4-ETHYLBENZENE	(CAS No) 934-80-5	2.03633	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT RE 1, H372 Asp. Tox. 1, H304
sec- BUTYL BENZENE	(CAS No) 135-98-8	2.03184	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
1-METHYL-2-n-PROPYLBENZENE	(CAS No) 1074-17-5	2.02287	Flam. Liq. 3, H226 Eye Dam. 1, H318 Skin Sens. 1A, H317
1-Methyl-4-n-Propylbenzene	(CAS No) 1074-55-1	2.00493	Flam. Liq. 2, H225 Skin Sens. 1, H317 Aquatic Chronic 2, H411
n-BUTYLBENZENE	(CAS No) 104-51-8	1.99147	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
1,3-DIMETHYL-5-ETHYLBENZENE	(CAS No) 934-74-7	1.9825	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317
1,2-DIMETHYL-3-ETHYLBENZENE	(CAS No) 933-98-2	1.97353	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
1-METHYL-3-n-PROPYLBENZENE	(CAS No) 1074-43-7	1.90625	Aquatic Chronic 2, H411
p-tert-Butylethylbenzene	(CAS No) 7364-19-4	1.66853	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Benzene, 1-(1,1-dimethylethyl)-3,5-dimethyl-	(CAS No) 98-19-1	1.61022	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
1,3,5-TRIMETHYLBENZENE	(CAS No) 108-67-8	1.13478	Flam. Liq. 3, H226 STOT SE 3, H335 Aquatic Chronic 2, H411
1,3-DIMETHYL-2-ETHYLBENZENE	(CAS No) 2870-04-4	1.03162	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319
1-METHYL-2-ISOPROPYLBENZENE	(CAS No) 527-84-4	1.01816	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302
1-Methyl-3-Isopropylbenzene	(CAS No) 535-77-3	1.00022	Flam. Liq. 3, H226
1,2-DIETHYLBENZENE	(CAS No) 135-01-3	0.98676	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
1-Methyl-4-Isopropylbenzene	(CAS No) 99-87-6	0.96434	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
2-METHYLBUTYLBENZENE	(CAS No) 3968-85-2	0.93294	Flam. Liq. 2, H225
1,2,4- TRIETHYLBENZENE	(CAS No) 877-44-1	0.82978	Flam. Liq. 4, H227
o-tert-Butyltoluene	(CAS No) 1074-92-6	0.62794	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation:vapour), H332 Eye Irrit. 2A, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
1,2,4,5-TETRAMETHYLBENZENE	(CAS No) 95-93-2	0.21529	Flam. Sol. 1, H228 Aquatic Chronic 2, H411

Full text of H-phrases: see section 16

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SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.
- First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.
- First-aid measures after eye contact : Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.
- First-aid measures after ingestion : Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

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

- Symptoms/injuries after inhalation : Harmful if inhaled. Corrosive to the respiratory tract.
- Symptoms/injuries after skin contact : Causes skin irritation. May cause an allergic skin reaction.
- Symptoms/injuries after eye contact : Causes serious eye damage.
- Symptoms/injuries after ingestion : May be fatal if swallowed and enters airways.
- Symptoms/injuries upon intravenous administration : Not known.
- Chronic symptoms : May cause cancer. May cause genetic defects. Suspected of damaging fertility. Suspected of damaging the unborn child. Causes damage to organs (hematopoietic system, central nervous system) through prolonged or repeated exposure.

4.3. Indication of any immediate medical attention and special treatment needed

If you feel unwell, seek medical advice. If breathing is difficult, give oxygen.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.
- Unsuitable extinguishing media : Do not use water jet to extinguish.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : This product is flammable.
- Explosion hazard : Product is not explosive. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
- Reactivity : None known.

5.3. Advice for firefighters

- Firefighting instructions : In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire.
- Protection during firefighting : Standard protective clothing and equipment (e.g., Self Contained Breathing Apparatus) for fire fighters. Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Ensure adequate ventilation.

6.1.1. For non-emergency personnel

- Protective equipment : Wear protective equipment consistent with the site emergency plan.
- Emergency procedures : Escape the danger area by the closest safe route. Close doors and windows of adjacent premises. Keep containers closed. Mark the danger area. Seal off low-lying areas. Keep upwind.

6.1.2. For emergency responders

- Protective equipment : Standard protective clothing and equipment (e.g., Self Contained Breathing Apparatus) for fire fighters. Equip cleanup crew with proper protection.
- Emergency procedures : Evacuate and limit access. Ventilate area. Remove ignition sources. Monitor concentration of released product. Consider the risk of potentially explosive atmospheres. Wear self-contained breathing apparatus when entering atmospheres of unknown contaminant concentration until proven to be safe.

6.2. Environmental precautions

No additional information available.

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6.3. Methods and material for containment and cleaning up

- For containment : Contain and collect spillages with non-combustible absorbent materials, e.g. vermiculite & sand.
- Methods for cleaning up : Dispose of this material and its container in accordance with local regulations.

6.4. Reference to other sections

See also Sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Additional hazards when processed : Handle empty containers with care because residual vapors are flammable. In use, may form flammable vapor-air mixture.
- Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Use only non-sparking tools.
- Hygiene measures : Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Comply with applicable regulations. Proper grounding procedures to avoid static electricity should be followed.
- Storage conditions : Keep container closed when not in use. Keep cool. Store in well ventilated area. Store locked up.
- Incompatible products : None known.
- Incompatible materials : Oxidizing materials. Air.

7.3. Specific end use(s)

See Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Piano Aromatic Mixture		
ACGIH	Not applicable	
OSHA	Not applicable	
Benzene (71-43-2)		
ACGIH	ACGIH TWA (ppm)	0.5 ppm
ACGIH	ACGIH STEL (ppm)	2.5 ppm
OSHA	OSHA PEL (TWA) (ppm)	1 ppm
OSHA	OSHA PEL (STEL) (ppm)	5 ppm (see 29 CFR 1910.1028)
OSHA	OSHA PEL (Ceiling) (ppm)	25 ppm
Toluene (108-88-3)		
ACGIH	ACGIH TWA (ppm)	20 ppm
OSHA	OSHA PEL (TWA) (ppm)	200 ppm
OSHA	OSHA PEL (Ceiling) (ppm)	300 ppm
Ethylbenzene (100-41-4)		
ACGIH	ACGIH TWA (ppm)	20 ppm
OSHA	OSHA PEL (TWA) (mg/m ³)	435 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	100 ppm
m-xylene (108-38-3)		
ACGIH	Not applicable	
OSHA	Not applicable	
p-Xylene (106-42-3)		
ACGIH	Not applicable	
OSHA	Not applicable	

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O-XYLENE (95-47-6)

ACGIH	Not applicable
OSHA	Not applicable

ISOPROPYL BENZENE (98-82-8)

ACGIH	Not applicable
OSHA	Not applicable

n-PROPYL BENZENE (103-65-1)

ACGIH	Not applicable
OSHA	Not applicable

1-METHYL-3-ETHYL BENZENE (620-14-4)

ACGIH	Not applicable
OSHA	Not applicable

1-Methyl-4-Ethylbenzene (622-96-8)

ACGIH	Not applicable
OSHA	Not applicable

1,3,5-TRIMETHYLBENZENE (108-67-8)

ACGIH	Not applicable
OSHA	Not applicable

1-METHYL-2-ETHYL BENZENE (611-14-3)

ACGIH	Not applicable
OSHA	Not applicable

1,2,4-TRIMETHYLBENZENE (95-63-6)

ACGIH	Not applicable
OSHA	Not applicable

tert-Butylbenzene (98-06-6)

ACGIH	Not applicable
OSHA	Not applicable

ISOBUTYLBENZENE (538-93-2)

ACGIH	Not applicable
OSHA	Not applicable

sec- BUTYL BENZENE (135-98-8)

ACGIH	Not applicable
OSHA	Not applicable

1-Methyl-3-Isopropylbenzene (535-77-3)

ACGIH	Not applicable
OSHA	Not applicable

1-Methyl-4-Isopropylbenzene (99-87-6)

ACGIH	Not applicable
OSHA	Not applicable

1-METHYL-2-ISOPROPYLBENZENE (527-84-4)

ACGIH	Not applicable
OSHA	Not applicable

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1-METHYL-3-n-PROPYLBENZENE (1074-43-7)	
ACGIH	Not applicable
OSHA	Not applicable

1-Methyl-4-n-Propylbenzene (1074-55-1)	
ACGIH	Not applicable
OSHA	Not applicable

n-BUTYLBENZENE (104-51-8)	
ACGIH	Not applicable
OSHA	Not applicable

1,3-DIMETHYL-5-ETHYLBENZENE (934-74-7)	
ACGIH	Not applicable
OSHA	Not applicable

1,2-DIETHYLBENZENE (135-01-3)	
ACGIH	Not applicable
OSHA	Not applicable

1-METHYL-2-n-PROPYLBENZENE (1074-17-5)	
ACGIH	Not applicable
OSHA	Not applicable

1,4-DIMETHYL-2-ETHYLBENZENE (1758-88-9)	
ACGIH	Not applicable
OSHA	Not applicable

1,2-DIMETHYL-4-ETHYLBENZENE (934-80-5)	
ACGIH	Not applicable
OSHA	Not applicable

1,3-DIMETHYL-2-ETHYLBENZENE (2870-04-4)	
ACGIH	Not applicable
OSHA	Not applicable

1,2-DIMETHYL-3-ETHYLBENZENE (933-98-2)	
ACGIH	Not applicable
OSHA	Not applicable

1,2,4,5-TETRAMETHYLBENZENE (95-93-2)	
ACGIH	Not applicable
OSHA	Not applicable

2-METHYLBUTYLBENZENE (3968-85-2)	
ACGIH	Not applicable
OSHA	Not applicable

o-tert-Butyltoluene (1074-92-6)	
ACGIH	Not applicable
OSHA	Not applicable

n-PENTYL BENZENE (538-68-1)	
ACGIH	Not applicable
OSHA	Not applicable

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Benzene, 1-(1,1-dimethylethyl)-3,5-dimethyl- (98-19-1)	
ACGIH	Not applicable
OSHA	Not applicable
p-tert-Butylethylbenzene (7364-19-4)	
ACGIH	Not applicable
OSHA	Not applicable
1,3,5-TRIETHYLBENZENE (102-25-0)	
ACGIH	Not applicable
OSHA	Not applicable
1,2,4-TRIETHYLBENZENE (877-44-1)	
ACGIH	Not applicable
OSHA	Not applicable
n-Hexylbenzene (1077-16-3)	
ACGIH	Not applicable
OSHA	Not applicable

8.2. Exposure controls

Appropriate engineering controls	: Ensure exposure is below occupational exposure limits. Provide adequate general and local exhaust ventilation. Consider work permit system e.g. for maintenance activities.
Hand protection	: Wear chemically resistant protective gloves. 29 CFR 1910.138: Hand Protection.
Eye protection	: Chemical goggles or face shield. 29 CFR 1910.133: Eye and Face Protection.
Skin and body protection	: Wear suitable protective clothing, e.g. - lab coats, coveralls or flame resistant clothing.
Respiratory protection	: Wear respiratory protection. Consult respirator supplier's product information for the selection of the appropriate respiratory protection.
Thermal hazard protection	: None necessary during normal and routine operations.
Environmental exposure controls	: Refer to local regulations for restriction of emissions to the atmosphere. See section 13 for specific methods for waste gas treatment.
Other information	: Wear safety shoes while handling containers. 29 CFR 1910.136: Foot Protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: No data available.
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: See Section 2.1 and 2.2
Explosion limits	: No data available
Explosive properties	: Without adequate ventilation formation of explosive mixtures may be possible.
Oxidizing properties	: None.
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Molecular mass	: Not applicable

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Relative gas density	: Heavier than air
Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

9.2. Other information

Additional information : Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.

SECTION 10: Stability and reactivity

10.1. Reactivity

None known.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

vapors may form flammable and explosive mixture with air.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Oxidizing materials. Air.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Inhalation:vapour: Harmful if inhaled.

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ATE US (vapors)	11.000 mg/l/4h
Benzene (71-43-2)	
LD50 oral rat	5960 mg/kg Sig Ald
LD50 dermal rabbit	8263 mg/kg Sig Ald
LC50 inhalation rat (ppm)	13230 ppm/4h AS400
ATE US (oral)	930.000 mg/kg body weight
ATE US (gases)	13230.000 ppmV/4h
Toluene (108-88-3)	
LD50 oral rat	5580 mg/kg Sig Ald
LD50 dermal rabbit	12196 mg/kg Sig Ald
LC50 inhalation rat (mg/l)	12.5 mg/l/4h
LC50 inhalation rat (ppm)	13001.09 ppm/4h AS400
ATE US (oral)	5580.000 mg/kg body weight
ATE US (dermal)	12196.000 mg/kg body weight
ATE US (gases)	13001.090 ppmV/4h
ATE US (vapors)	12.500 mg/l/4h
ATE US (dust, mist)	12.500 mg/l/4h
Ethylbenzene (100-41-4)	
LD50 oral rat	3500 mg/kg Sig Ald & mother sheet
LD50 dermal rabbit	15354 mg/kg Sig Ald & mother sheet
LC50 inhalation rat (mg/l)	17.2 mg/l/4h

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Ethylbenzene (100-41-4)	
LC50 inhalation rat (ppm)	8954.02 ppm/4h AS400
ATE US (oral)	3500.000 mg/kg body weight
ATE US (dermal)	15354.000 mg/kg body weight
ATE US (gases)	8954.020 ppmV/4h
ATE US (vapors)	17.200 mg/l/4h
ATE US (dust, mist)	17.200 mg/l/4h
m-xylene (108-38-3)	
LD50 oral rat	6602 mg/kg Sig Ald
LD50 dermal rabbit	12126 mg/kg Sig Ald
LC50 inhalation rat (ppm)	4550 ppm/4h AS400
ATE US (oral)	6602.000 mg/kg body weight
ATE US (dermal)	1100.000 mg/kg body weight
ATE US (gases)	4550.000 ppmV/4h
ATE US (vapors)	19.800 mg/l/4h
p-Xylene (106-42-3)	
LD50 oral rat	5000 mg/kg
LC50 inhalation rat (ppm)	4550 ppm/4h AS400
ATE US (oral)	5000.000 mg/kg body weight
ATE US (dermal)	1100.000 mg/kg body weight
ATE US (gases)	4550.000 ppmV/4h
ATE US (vapors)	19.800 mg/l/4h
O-XYLENE (95-47-6)	
LC50 inhalation rat (ppm)	4550 ppm/4h
ATE US (gases)	4550.000 ppmV/4h
ATE US (vapors)	19.800 mg/l/4h
ISOPROPYL BENZENE (98-82-8)	
LD50 oral rat	2260 mg/kg Sig Ald
LC50 inhalation rat (ppm)	7932.36836 ppm/4h AS400
n-PROPYL BENZENE (103-65-1)	
LD50 oral rat	6040 mg/kg
LC50 inhalation rat (ppm)	45955 ppm/4h
1-Methyl-4-Ethylbenzene (622-96-8)	
LD50 oral rat	4850 mg/kg Fisher
1,3,5-TRIMETHYLBENZENE (108-67-8)	
LD50 oral rat	5000 mg/kg
LC50 inhalation rat (ppm)	24000 ppm/4h
1,2,4-TRIMETHYLBENZENE (95-63-6)	
LD50 oral rat	6000 mg/kg Sig Ald
LC50 inhalation rat (ppm)	3661.09 ppm/4h AS400
ATE US (oral)	6000.000 mg/kg body weight
ATE US (gases)	3661.090 ppmV/4h
ATE US (vapors)	18.000 mg/l/4h
tert-Butylbenzene (98-06-6)	
LD50 oral rat	3045 mg/kg Sig Ald
ATE US (vapors)	11.000 mg/l/4h
sec- BUTYL BENZENE (135-98-8)	
LD50 dermal rabbit	13792 mg/kg
1-Methyl-3-Isopropylbenzene (535-77-3)	
LD50 oral rat	2970 mg/kg
1-Methyl-4-Isopropylbenzene (99-87-6)	
LD50 oral rat	4750 mg/kg

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1-METHYL-2-ISOPROPYLBENZENE (527-84-4)	
LD50 oral rat	2130 mg/kg
ATE US (oral)	500.000 mg/kg body weight
1,3-DIMETHYL-5-ETHYLBENZENE (934-74-7)	
ATE US (oral)	500.000 mg/kg body weight
1,4-DIMETHYL-2-ETHYLBENZENE (1758-88-9)	
ATE US (oral)	500.000 mg/kg body weight
1,2-DIMETHYL-4-ETHYLBENZENE (934-80-5)	
ATE US (oral)	500.000 mg/kg body weight
1,3-DIMETHYL-2-ETHYLBENZENE (2870-04-4)	
ATE US (oral)	500.000 mg/kg body weight
1,2-DIMETHYL-3-ETHYLBENZENE (933-98-2)	
ATE US (oral)	500.000 mg/kg body weight
ATE US (dermal)	1100.000 mg/kg body weight
ATE US (vapors)	11.000 mg/l/4h
1,2,4,5-TETRAMETHYLBENZENE (95-93-2)	
LD50 oral rat	6989 mg/kg
o-tert-Butyltoluene (1074-92-6)	
ATE US (vapors)	11.000 mg/l/4h

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: May cause genetic defects (Inhalation).
Carcinogenicity	: May cause cancer.

Benzene (71-43-2)	
IARC group	1 - Carcinogenic to humans
National Toxicology Program (NTP) Status	1 - Evidence of Carcinogenicity, 2 - Known Human Carcinogens
In OSHA Hazard Communication Carcinogen list	Yes
In OSHA Specifically Regulated Carcinogen list	Yes
Toluene (108-88-3)	
IARC group	3 - Not classifiable
Ethylbenzene (100-41-4)	
IARC group	2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status	1 - Evidence of Carcinogenicity
In OSHA Hazard Communication Carcinogen list	Yes

Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.

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Specific target organ toxicity (repeated exposure)	: Causes damage to organs (central nervous system, hematopoietic system) through prolonged or repeated exposure.
Aspiration hazard	: May be fatal if swallowed and enters airways.
Symptoms/injuries after inhalation	: Harmful if inhaled. Corrosive to the respiratory tract.
Symptoms/injuries after skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Symptoms/injuries after eye contact	: Causes serious eye damage.
Symptoms/injuries after ingestion	: May be fatal if swallowed and enters airways.
Symptoms/injuries upon intravenous administration	: Not known.
Chronic symptoms	: May cause cancer. May cause genetic defects. Suspected of damaging fertility. Suspected of damaging the unborn child. Causes damage to organs (hematopoietic system, central nervous system) through prolonged or repeated exposure.

SECTION 12: Ecological information

12.1. Toxicity

Benzene (71-43-2)	
LC50 fish 1	10.7 - 14.7 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	8.76 - 15.6 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
EC50 other aquatic organisms 1	29 mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata)
LC50 fish 2	5.3 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])
EC50 Daphnia 2	10 mg/l (Exposure time: 48 h - Species: Daphnia magna)
Toluene (108-88-3)	
LC50 fish 1	15.22 - 19.05 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	5.46 - 9.83 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
EC50 other aquatic organisms 1	> 433 mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata)
LC50 fish 2	12.6 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 2	11.5 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 other aquatic organisms 2	12.5 mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata [static])
Ethylbenzene (100-41-4)	
LC50 fish 1	11.0 - 18.0 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 Daphnia 1	1.8 - 2.4 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 other aquatic organisms 1	4.6 mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata)
LC50 fish 2	4.2 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static])
EC50 other aquatic organisms 2	> 438 mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata)

12.2. Persistence and degradability

No additional information available

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12.3. Bioaccumulative potential

Benzene (71-43-2)	
BCF fish 1	3.5 - 4.4
Log Pow	1.83
Toluene (108-88-3)	
Log Pow	2.65
Ethylbenzene (100-41-4)	
BCF fish 1	15
Log Pow	3.118

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on ozone layer : No known effects from this product.
Effect on the global warming : No known ecological damage caused by this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Contact supplier if guidance is required. Ensure that the emission levels from local regulations or operating permits are not exceeded. Disposal through controlled incineration or authorized waste dump.
Waste disposal recommendations : Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT
Transport document description : UN3295 Hydrocarbons, liquid, n.o.s., 3, II
UN-No.(DOT) : UN3295
Proper Shipping Name (DOT) : Hydrocarbons, liquid, n.o.s.
Transport hazard class(es) (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

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Hazard labels (DOT) : 3 - Flammable liquid



Packing group (DOT) : II - Medium Danger

DOT Packaging Non Bulk (49 CFR 173.xxx) : 202

DOT Packaging Bulk (49 CFR 173.xxx) : 242

DOT Special Provisions (49 CFR 172.102) : 144 - If transported as a residue in an underground storage tank (UST), as defined in 40 CFR 280.12, that has been cleaned and purged or rendered inert according to the American Petroleum Institute (API) Standard 1604 (IBR, see 171.7 of this subchapter), then the tank and this material are not subject to any other requirements of this subchapter. However, sediments remaining in the tank that meet the definition for a hazardous material are subject to the applicable regulations of this subchapter.

IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.

T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.

TP8 - A portable tank having a minimum test pressure of 1.5 bar (150 kPa) may be used when the flash point of the hazardous material transported is greater than 0 C (32 F).

TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

DOT Packaging Exceptions (49 CFR 173.xxx) : 150

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 5 L

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 60 L

DOT Vessel Stowage Location : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.

Additional information

Other information : No supplementary information available.

ADR

Transport document description : UN 3295 HYDROCARBONS, LIQUID, N.O.S., 3, II, (D/E)

Packing group (ADR) : II


Class (ADR) : 3 - Flammable liquid

Hazard identification number (Kemler No.) : 33

Classification code (ADR) : F1

Hazard labels (ADR) : 3 - Flammable liquids



Orange plates : 

Tunnel restriction code (ADR) : D/E

Limited quantities (ADR) : 11

Excepted quantities (ADR) : E2

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Transport by sea

UN-No. (IMDG)	: 3295
Proper Shipping Name (IMDG)	: Hydrocarbons, Liquid, n.o.s.
Class (IMDG)	: 3 - Flammable liquids
Packing group (IMDG)	: II - substances presenting medium danger

Air transport

UN-No. (IATA)	: 3295
Proper Shipping Name (IATA)	: Hydrocarbons, Liquid, n.o.s.
Class (IATA)	: 3 - Flammable Liquids
Packing group (IATA)	: II - Medium Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

Benzene (71-43-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Subject to reporting requirements of United States SARA Section 313

SARA Section 313 - Emission Reporting	0.1 %
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Toluene (108-88-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Subject to reporting requirements of United States SARA Section 313

SARA Section 313 - Emission Reporting	1.0 %
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Ethylbenzene (100-41-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Subject to reporting requirements of United States SARA Section 313

SARA Section 313 - Emission Reporting	0.1 %
---------------------------------------	-------

Benzene, 1-(1,1-dimethylethyl)-3,5-dimethyl- (98-19-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

n-Hexylbenzene (1077-16-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

Benzene (71-43-2)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification	Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects
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Toluene (108-88-3)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification	Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects
----------------------	--

Ethylbenzene (100-41-4)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification	Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects
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Benzene, 1-(1,1-dimethylethyl)-3,5-dimethyl- (98-19-1)

Listed on the Canadian NDSL (Non-Domestic Substances List)

n-Hexylbenzene (1077-16-3)

Listed on the Canadian NDSL (Non-Domestic Substances List)

EU-Regulations

Benzene (71-43-2)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Toluene (108-88-3)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Ethylbenzene (100-41-4)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Benzene, 1-(1,1-dimethylethyl)-3,5-dimethyl- (98-19-1)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

p-tert-Butylethylbenzene (7364-19-4)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

n-Hexylbenzene (1077-16-3)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

No additional information available

National regulations

Benzene (71-43-2)

Listed on IARC (International Agency for Research on Cancer)
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Japanese Pollutant Release and Transfer Register Law (PRTR Law)
Listed as carcinogen on NTP (National Toxicology Program)
Listed on the Canadian IDL (Ingredient Disclosure List)

Toluene (108-88-3)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Japanese Poisonous and Deleterious Substances Control Law
Japanese Pollutant Release and Transfer Register Law (PRTR Law)
Listed on the Canadian IDL (Ingredient Disclosure List)

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Ethylbenzene (100-41-4)

Listed on the AICS (Australian Inventory of Chemical Substances)
 Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
 Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
 Listed on the Korean ECL (Existing Chemicals List)
 Listed on NZIoC (New Zealand Inventory of Chemicals)
 Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
 Japanese Pollutant Release and Transfer Register Law (PRTR Law)
 Listed on the Canadian IDL (Ingredient Disclosure List)

o-tert-Butyltoluene (1074-92-6)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Benzene, 1-(1,1-dimethylethyl)-3,5-dimethyl- (98-19-1)

Listed on the AICS (Australian Inventory of Chemical Substances)
 Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
 Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
 Listed on NZIoC (New Zealand Inventory of Chemicals)
 Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

n-Hexylbenzene (1077-16-3)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
 Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

15.3. US State regulations

Benzene (71-43-2)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
Yes	Yes	No	Yes	6.4 µg/day

Toluene (108-88-3)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	Yes	Yes	No	

Ethylbenzene (100-41-4)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
Yes	No	No	No	54 µg/day

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Benzene (71-43-2)

U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances
U.S. - Pennsylvania - RTK (Right to Know) List

Toluene (108-88-3)

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

Ethylbenzene (100-41-4)

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

SECTION 16: Other information

Indication of changes

: Revised safety data sheet in accordance with OSHA final rule on GHS implementation promulgated March 26, 2012.

Other information

: This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR, 1910.1200. Other government regulations must be reviewed for applicability to this product.

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Full text of H-phrases:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Aquatic Chronic 4	Hazardous to the aquatic environment - Chronic Hazard Category 4
Asp. Tox. 1	Aspiration hazard Category 1
Carc. 1A	Carcinogenicity Category 1A
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 2	Flammable liquids Category 2
Flam. Liq. 3	Flammable liquids Category 3
Flam. Liq. 4	Flammable liquids Category 4
Flam. Sol. 1	Flammable solids Category 1
Muta. 1B	Germ cell mutagenicity Category 1B
Repr. 2	Reproductive toxicity Category 2
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization Category 1
Skin Sens. 1A	Skin sensitization Category 1A
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H227	Combustible liquid
H228	Flammable solid
H302	Harmful if swallowed
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
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H340	May cause genetic defects (Inhalation)
H350	May cause cancer
H361	Suspected of damaging fertility or the unborn child
H372	Causes damage to organs through prolonged or repeated exposure
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
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

SDS US (GHS HazCom 2012)

This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR, 1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of Air Liquide America Corporation's knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either express or implied, are provided. The information contained herein relates only to this specific product. If this product is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.