

# INEOS Phenol

## Safety Data Sheet

### Section 1: Identification

#### Product identifier

- Product Name** ● Isopropylbenzene [Cumene]  
**Synonyms** ● (1-methylethyl) benzene; 2-Phenylethane; Cumene; Cumol; Isopropylbenzene  
**CAS Number** ● 98-82-8

#### Relevant identified uses of the substance or mixture and uses advised against

- Recommended use** ● Raw material used in the manufacture of phenol and acetone

#### Details of the supplier of the safety data sheet

- Manufacturer** ● INEOS Phenol  
3503 Pasadena Freeway  
Pasadena, Texas 77503  
**Telephone (General):** 713-920-4308

#### Emergency telephone number

- 24 Hour Emergency Number:** 800-424-9300  
**24 Hour CHEMTREC Number:** 800-424-9300 (USA)  
703-527-3887 (International)

### Section 2: Hazard Identification

#### UN GHS

According to Third Revised Edition

#### Classification of the substance or mixture

- UN GHS** ● Flammable Liquids 3 - H226  
Acute Toxicity Oral 4 - H302  
Aspiration 1 - H304  
Skin Irritation 2 - H315  
Eye Irritation 2 - H319  
Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects - H336  
Carcinogenicity 2 - H351  
Hazardous to the aquatic environment Chronic 2 - H411

#### Label elements

UN GHS

**DANGER**



- Hazard statements**
- H226 - Flammable liquid and vapour
  - H302 - Harmful if swallowed
  - H304 - May be fatal if swallowed and enters airways
  - H315 - Causes skin irritation
  - H319 - Causes serious eye irritation
  - H336 - May cause drowsiness or dizziness
  - H351 - Suspected of causing cancer.
  - H411 - Toxic to aquatic life with long lasting effects

**Precautionary statements**

- Prevention**
- P201 - Obtain special instructions before use.
  - P202 - Do not handle until all safety precautions have been read and understood.
  - P210 - Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
  - P233 - Keep container tightly closed.
  - P240 - Ground and/or 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.
  - P261 - Avoid breathing dust, fume, gas, mist, vapours and/or spray.
  - P264 - Wash thoroughly after handling.
  - P270 - Do not eat, drink or smoke when using this product.
  - P271 - Use only outdoors or in a well-ventilated area.
  - P273 - Avoid release to the environment.
  - P280 - Wear protective gloves/protective clothing/eye protection/face protection.
  - P281 - Use personal protective equipment as required.

- Response**
- P391 - Collect spillage.
  - P370+P378 - In case of fire: Use appropriate media for extinction.
  - P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
  - P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
  - P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
  - P332+P313 - If skin irritation occurs: Get medical advice/attention.
  - P321 - Specific treatment, see supplemental first aid information.
  - 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.
  - P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
  - P330 - Rinse mouth.
  - P331 - Do NOT induce vomiting.
  - P308+P313 - IF exposed or concerned: Get medical advice/attention.

- Storage/Disposal**
- P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
  - P235 - Keep cool.
  - P405 - Store locked up.
  - P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**Other hazards**

**UN GHS**

- According to the Globally Harmonized System for Classification and Labeling (GHS) this product is considered hazardous.

**United States (US)**

According to OSHA 29 CFR 1910.1200 HCS

**Classification of the substance or mixture**

**OSHA HCS 2012**

- Flammable Liquids 3 - H226
- Acute Toxicity Oral 4 - H302
- Aspiration 1 - H304
- Skin Irritation 2 - H315
- Eye Irritation 2 - H319
- Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects - H336
- Carcinogenicity 2 - H351

**Label elements**

OSHA HCS 2012

**DANGER**

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  - Causes serious eye irritation - H319
  - May cause drowsiness or dizziness - H336
  - Suspected of causing cancer. - H351

**Precautionary statements**

- Prevention**
- Obtain special instructions before use. - P201
  - Do not handle until all safety precautions have been read and understood. - P202
  - Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking. - P210
  - Keep container tightly closed. - P233
  - Ground and/or bond container and receiving equipment. - P240
  - Use explosion-proof electrical/ventilating/lighting/equipment. - P241
  - Use only non-sparking tools. - P242
  - Take precautionary measures against static discharge. - P243
  - Avoid breathing dust, fume, gas, mist, vapours and/or spray. - P261
  - Wash thoroughly after handling. - P264
  - Do not eat, drink or smoke when using this product. - P270
  - Use only outdoors or in a well-ventilated area. - P271
  - Wear protective gloves/protective clothing/eye protection/face protection. - P280
- Response**
- In case of fire: Use appropriate media for extinction. - P370+P378
  - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. - P304+P340
  - Call a POISON CENTER or doctor/physician if you feel unwell. - P312
  - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. - P303+P361+P353
  - If skin irritation occurs: Get medical advice/attention. - P332+P313
  - Specific treatment, see supplemental first aid information. - P321
  - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. - P305+P351+P338
  - If eye irritation persists: Get medical advice/attention. - P337+P313
  - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. - P301+P310
  - Rinse mouth. - P330
  - Do NOT induce vomiting. - P331
  - IF exposed or concerned: Get medical advice/attention. - P308+P313
- Storage/Disposal**
- Store in a well-ventilated place. Keep container tightly closed. - P403+P233
  - Keep cool. - P235
  - Store locked up. - P405
  - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. - P501

**Other hazards**

OSHA HCS 2012

- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

**Canada**

According to WHMIS

**Classification of the substance or mixture**

WHMIS

- Flammable Liquids - B2

Other Toxic Effects - D2A  
Other Toxic Effects - D2B

## Label elements

WHMIS



- Flammable Liquids - B2
- Other Toxic Effects - D2A
- Other Toxic Effects - D2B

## Other hazards

WHMIS

- In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

## Section 3 - Composition/Information on Ingredients

### Substances

Composition				
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive
1-Methylethylbenzene	CAS:98-82-8	> 99.9%	Ingestion/Oral-Rat LD50 • 1400 mg/kg Skin-Rabbit LD50 • 12300 µL/kg Inhalation-Rat LC50 • 39000 mg/m <sup>3</sup> 4 Hour(s)	UN GHS: Flam. Liq. 3; Asp. Tox. 1; Eye Irrit. 2; Skin Irrit. 2; Carc. 2; Acute Tox. 4 (oral); Aquatic Acute 2 OSHA HCS 2012: Flam. Liq. 3; Asp. Tox. 1; Eye Irrit. 2; Skin Irrit. 2; Carc. 2; Acute Tox. 4 (oral)

### Mixtures

- Material does not meet the criteria of a mixture.

## Section 4: First-Aid Measures

### Description of first aid measures

#### Inhalation

- Administer oxygen if breathing is difficult. Do not use mouth-to-mouth method if victim inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Give artificial respiration if victim is not breathing. Move victim to fresh air. Get medical attention immediately.

#### Skin

- For minor skin contact, avoid spreading material on unaffected skin. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Remove and isolate contaminated clothing. If irritation develops and persists, get medical attention.

#### Eye

- In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation develops and persists, get medical attention.

#### Ingestion

- If swallowed, rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Do not use mouth-to-mouth method if victim ingested the substance. Obtain medical attention immediately if ingested.

**Most important symptoms and effects, both acute and delayed**

- Refer to Section 11 - Toxicological Information.

**Indication of any immediate medical attention and special treatment needed****Notes to Physician**

- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

**Section 5: Fire-Fighting Measures****Extinguishing media**

**Suitable Extinguishing Media** • Use an acceptable halon replacement such as carbon dioxide extinguishers, alcohol foam or dry chemical for small fires. Large fires should be extinguished with alcohol foam.

**Unsuitable Extinguishing Media**

- Water sprays may be used to keep the containers cool but may be insufficient to extinguish the fire. Direct water streams may promote the spread of isopropylbenzene flames, as isopropylbenzene is lighter than water.

**Special hazards arising from the substance or mixture****Unusual Fire and Explosion Hazards**

- Containers may explode when heated. Vapor explosion hazard indoors, outdoors or in sewers. **HIGHLY FLAMMABLE:** Will be easily ignited by heat, sparks or flames. Many liquids are lighter than water. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Runoff to sewer may create fire or explosion hazard. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

**Hazardous Combustion Products**

- Combustion of isopropylbenzene produces irritants and toxic gases and vapors.

**Advice for firefighters**

- Wear positive pressure self-contained breathing apparatus (SCBA). Move containers from fire area if you can do it without risk. **LARGE FIRES:** Cool containers with flooding quantities of water until well after fire is out.

**Section 6 - Accidental Release Measures****Personal precautions, protective equipment and emergency procedures****Personal Precautions**

- Ventilate enclosed areas. Ventilate the area before entry. Do not walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear appropriate personal protective equipment, avoid direct contact. Avoid contact with skin, eyes, and clothing.

**Emergency Procedures**

- **ELIMINATE** all ignition sources (no smoking, flares, sparks or flames in immediate area). As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. If tank, rail car or tank truck is involved in a fire, **ISOLATE** for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions. **LARGE SPILL:** Consider initial downwind evacuation for at least 300 meters (1000 feet). Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering.

**Environmental precautions**

- Prevent entry into waterways, sewers, basements or confined areas.

**Methods and material for containment and cleaning up**

**Containment/Clean-up Measures**

- Stop leak if you can do it without risk. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Use clean non-sparking tools to collect absorbed material. A vapor suppressing foam may be used to reduce vapors. All equipment used when handling the product must be grounded. LARGE SPILLS: Dike far ahead of liquid spill for later disposal. LARGE SPILLS: Water spray may reduce vapor; but may not prevent ignition in closed spaces.

**Section 7 - Handling and Storage****Precautions for safe handling****Handling**

- Handle and open container with care. Use only with adequate ventilation. Avoid contact with heat and ignition sources. All equipment used when handling the product must be grounded. Use only non-sparking tools. Take precautionary measures against static charges. All seals, gaskets, liners and other such parts exposed to isopropylbenzene service should be made of aromatic resistant elastomers. Do not use rubber-lined tanks. Wear appropriate personal protective equipment, avoid direct contact. Avoid contact with skin, eyes, and clothing. Do not breathe mist, vapors, spray. Do not ingest. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

**Conditions for safe storage, including any incompatibilities****Storage**

- Ventilate enclosed areas. Keep only in the original container. Keep container tightly closed. Avoid contact with heat and ignition sources and oxidizers. Store in a cool, dry, well-ventilated place. Empty containers retain product residue and can be hazardous. Do not cut, weld, puncture or incinerate container.

**Section 8 - Exposure Controls/Personal Protection****Control parameters****Exposure controls****Engineering Measures/Controls**

- Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Use explosion-proof electrical/ventilating/lighting/equipment.

**Personal Protective Equipment****Respiratory**

- If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**Eye/Face**

- Wear chemical splash goggles and face shield.

**Skin/Body**

- 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. HANDS: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Environmental Exposure Controls**

- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

**Key to abbreviations**

ACGIH = American Conference of Governmental Industrial Hygiene  
 NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

STEL = Short Term Exposure Limits are based on 15-minute exposures

TWAEV = Time-Weighted Average Exposure Value

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

## Section 9 - Physical and Chemical Properties

### Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Clear, colorless liquid with a sharp, penetrating aromatic odor.
Color	Colorless	Odor	Sharp, penetrating aromatic odor.
Odor Threshold	No data available		
General Properties			
Boiling Point	152 C(305.6 F)	Melting Point	-96 C(-140.8 F)
Decomposition Temperature	No data available	pH	No data available
Specific Gravity/Relative Density	0.86 Water=1	Water Solubility	Insoluble
Solvent Solubility	Alcohol; Ether; Benzene; Chlorinated solvents	Viscosity	0.74 Centistoke (cSt, cS) or mm <sup>2</sup> /sec @ 40 C(104 F)
Volatility			
Vapor Pressure	3.2 mmHg (torr) @ 20 C(68 F)	Vapor Density	4.14 Air=1
Evaporation Rate	No data available		
Flammability			
Flash Point	33 C(91.4 F) CC (Closed Cup)	UEL	6.5 %
LEL	0.9 %	Autoignition	425 C(797 F)
Flammability (solid, gas)	Not relevant.		
Environmental			
Octanol/Water Partition coefficient	3.55 log Kow	Bioconcentration Factor	35.5 Fish [measured]

## Section 10: Stability and Reactivity

### Reactivity

- No dangerous reaction known under conditions of normal use.

### Chemical stability

- Stable under recommended storage and handling conditions.

### Possibility of hazardous reactions

- Under normal conditions of storage and use, hazardous polymerization will not occur.

### Conditions to avoid

- Keep away from heat, sparks, and flame.

### Incompatible materials

- Violent reactions may take place between isopropylbenzene and nitric acid, oleum and chlorosulphonic acid. Isopropylbenzene reacts with oxidizing agents to form isopropylbenzene hydroperoxide, which may cause explosive hazards.

### Hazardous decomposition products

- Combustion products of isopropylbenzene may include styrene, benzaldehyde,

acetophenone, benzene, carbon monoxide, and carbon dioxide. Other unidentified organic compounds may be formed during combustion.

## Section 11 - Toxicological Information

### Information on toxicological effects

	CAS	
Isopropylbenzene [Cumene]	98-82-8	Acute Toxicity: Ingestion/Oral-Rat LD50 • 1400 mg/kg; <i>Gastrointestinal</i> : Gastritis; Inhalation-Rat LC50 • 39000 mg/m <sup>3</sup> 4 Hour(s); Inhalation-Human TClO • 200 ppm; <i>Behavioral</i> : Somnolence (general depressed activity); <i>Behavioral</i> : Antipsychotic; <i>Behavioral</i> : Irritability; Skin-Rabbit LD50 • 12300 µL/kg; Irritation: Eye-Rabbit • 86 mg • Mild irritation; Skin-Rabbit • 100 mg 24 Hour(s) • Moderate irritation; Multi-dose Toxicity: Inhalation-Rat TClO • 1200 ppm 6 Hour(s) 13 Week(s)-Intermittent; <i>Sense Organs and Special Senses</i> : Eye: Other; <i>Behavioral</i> : Changes in motor activity (specific assay); <i>Blood</i> : Pigmented or nucleated red blood cells

GHS Properties	Classification
Acute toxicity	OSHA HCS 2012 • Acute Toxicity - Oral 4 UN GHS • Acute Toxicity - Oral 4
Aspiration Hazard	OSHA HCS 2012 • Aspiration 1 UN GHS • Aspiration 1
Carcinogenicity	OSHA HCS 2012 • Carcinogenicity 2 UN GHS • Carcinogenicity 2
Germ Cell Mutagenicity	OSHA HCS 2012 • Data lacking UN GHS • Data lacking
Skin corrosion/Irritation	OSHA HCS 2012 • Skin Irritation 2 UN GHS • Skin Irritation 2
Skin sensitization	OSHA HCS 2012 • Data lacking UN GHS • Data lacking
STOT-RE	OSHA HCS 2012 • Data lacking UN GHS • Data lacking
STOT-SE	OSHA HCS 2012 • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects UN GHS • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
Toxicity for Reproduction	OSHA HCS 2012 • Data lacking UN GHS • Data lacking
Respiratory sensitization	OSHA HCS 2012 • Data lacking UN GHS • Data lacking
Serious eye damage/Irritation	OSHA HCS 2012 • Eye Irritation 2 UN GHS • Eye Irritation 2

Route(s) of entry/exposure • Inhalation, Skin, Eye

### Potential Health Effects

#### Inhalation

##### Acute (Immediate)

- High or excessive exposure may cause upper respiratory tract irritation. May affect the



central nervous system. Symptoms may include dizziness, drowsiness, lethargy, coma and death.

**Chronic (Delayed)**

- No effects were identified.

**Skin**

**Acute (Immediate)**

- Causes skin irritation.

**Chronic (Delayed)**

- Repeated contact may result in defatting of the skin.

**Eye**

**Acute (Immediate)**

- Causes serious eye irritation.

**Chronic (Delayed)**

- No data available.

**Ingestion**

**Acute (Immediate)**

- Harmful if swallowed. Material may be aspirated into lungs during ingestion and/or subsequent vomiting. Aspiration of this material will cause severe lung injury, chemical pneumonitis, pulmonary edema or death.

**Chronic (Delayed)**

- No data available.

**Mutagenic Effects**

- Cumene has tested negative in in vitro genetic toxicity studies. In vivo genetic toxicity studies have generally been negative.

**Carcinogenic Effects**

- Suspected of causing cancer. Risk of cancer depends on duration and level of exposure. Cumene caused cancer in laboratory animal studies, but the relevance of these findings to humans is uncertain.

Carcinogenic Effects		
	CAS	IARC
1-Methylethylbenzene	98-82-8	Group 2B-Possible Carcinogen

**Reproductive Effects**

- No developmental effects including teratogenicity were seen in laboratory animals even at doses that were maternally toxic.

**Key to abbreviations**

LD = Lethal Dose

TC = Toxic Concentration

## Section 12 - Ecological Information

### Toxicity

Isopropylbenzene [Cumene]			98-82-8		
Dosage	Species	Duration	Results	Exposure Conditions	Comments
2.7 mg/L	Fish: Rainbow trout	96 Hour(s)	LC50	Semi-static	NDA
4 mg/L	Water Flea: Daphnia magna	48 Hour(s)	EC50	Semi-static	Immobilization
2.6 mg/L	Aquatic Plant(s): Green algae	72 Hour(s)	EC50	Static	Growth inhibition
0.35 mg/L	Water Flea: Daphnia magna	21 Day(s)	NDA	Semi-static	Reproduction

- Toxic to aquatic life with long lasting effects.

### Persistence and degradability

- Cumene is readily biodegradable. Tests have shown greater than 60% degradation within 10 days and 70% degradation after 20 days (BOD test). Indirect Photodegradation with OH Radicals Rate Constant: 6.9E-12 cm<sup>3</sup>/molecule-s [estimated]; Atmospheric Half-life: 1.55 days [estimated]

### Bioaccumulative potential

- The bioaccumulation potential of cumene is low.

### Mobility in Soil

- Cumene is expected to have low mobility in soil and sediment. Soil organic carbon/water partition coefficient (Koc) is between 884 and 1500 [estimated]. Henry's Law Constant: 1.15E-02 atm-m<sup>3</sup>/mole, experimental.

### Other adverse effects

- No studies have been found.

## Section 13 - Disposal Considerations

### Waste treatment methods

#### Product waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

#### Packaging waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## Section 14 - Transport Information

	UN number	UN proper shipping name	Transport hazard class (es)	Packing group	Environmental hazards
DOT	UN1918	Isopropylbenzene	3	III	NDA
TDG	UN1918	ISOPROPYLBENZENE	3	III	NDA
IMO/IMDG	UN1918	ISOPROPYLBENZENE	3	III	NDA
IATA/ICAO	UN1918	Isopropylbenzene	3	III	NDA

Special precautions for user • None specified.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code • No data available

## Section 15 - Regulatory Information

### Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications • Acute, Chronic, Fire

Inventory						
Component	CAS	Canada DSL	Canada NDSL	EU EINECS	EU ELNICS	TSCA
1-Methylethylbenzene	98-82-8	Yes	No	Yes	No	Yes

### Canada

#### Labor

##### Canada - WHMIS - Classifications of Substances

• 1-Methylethylbenzene 98-82-8 B2, D2A

##### Canada - WHMIS - Ingredient Disclosure List

• 1-Methylethylbenzene 98-82-8 1 %

#### Environment

##### Canada - CEPA - Priority Substances List

• 1-Methylethylbenzene 98-82-8 Not Listed

**United States****Labor****U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals**

• 1-Methylethylbenzene	98-82-8	Not Listed
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**U.S. - OSHA - Specifically Regulated Chemicals**

• 1-Methylethylbenzene	98-82-8	Not Listed
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**Environment****U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants**

• 1-Methylethylbenzene	98-82-8	
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**U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities**

• 1-Methylethylbenzene	98-82-8	5000 lb final RQ; 2270 kg final RQ
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**U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities**

• 1-Methylethylbenzene	98-82-8	Not Listed
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**U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs**

• 1-Methylethylbenzene	98-82-8	Not Listed
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**U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs**

• 1-Methylethylbenzene	98-82-8	Not Listed
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**U.S. - CERCLA/SARA - Section 313 - Emission Reporting**

• 1-Methylethylbenzene	98-82-8	1.0 % de minimis concentration
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**U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing**

• 1-Methylethylbenzene	98-82-8	Not Listed
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**U.S. - TSCA (Toxic Substances Control Act) - Section 12(b) - Export Notification**

• 1-Methylethylbenzene	98-82-8	Not Listed
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**United States - California****Environment****U.S. - California - Proposition 65 - Carcinogens List**

• 1-Methylethylbenzene	98-82-8	carcinogen, initial date 4/6/10
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**U.S. - California - Proposition 65 - Developmental Toxicity**

• 1-Methylethylbenzene	98-82-8	Not Listed
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**U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)**

• 1-Methylethylbenzene	98-82-8	Not Listed
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**U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)**

• 1-Methylethylbenzene	98-82-8	Not Listed
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**U.S. - California - Proposition 65 - Reproductive Toxicity - Female**

• 1-Methylethylbenzene	98-82-8	Not Listed
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**U.S. - California - Proposition 65 - Reproductive Toxicity - Male**

• 1-Methylethylbenzene	98-82-8	Not Listed
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## Other Information

- WARNING: This product contains a chemical known to the State of California to cause cancer.

### Section 16 - Other Information

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|--|---|
| <b>Last Revision Date</b>                | ● 06/October/2015   |
| <b>Preparation Date</b>                  | ● 06/October/2015   |
| <b>Disclaimer/Statement of Liability</b> | ● INEOS Phenol provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must make no representations or warranties, either expressed or implied, including without limitation any warranties or merchantability, fitness for a particular purpose with respect to the information set forth herein or the product which the information refers. Accordingly, INEOS Phenol will not be responsible for damages resulting from the use of or reliance upon this information. |

**Key to abbreviations**

NDA= No Data Available