

### SECTION 1 Identification

#### 1.1. Product identifier

Product form : Substance  
 Trade name : Cumene  
 Chemical name : cumene  
 CAS-No. : 98-82-8  
 Product code : P506  
 Formula : C9H12

#### 1.2. Other means of identification

Synonyms : Cumene / Benzene, (1-methylethyl)- / (1-Methylethyl)benzene / 2-Phenylpropane / CUMENE  
 Other means of identification : cumene  
 EC Index No. (Report) : 601-024-00-X  
 EC-No. : 202-704-5

#### 1.3. Recommended use of the chemical and restrictions on use

Recommended use : Phenol and acetone manufacture  
 Restrictions on use : No additional information available

#### 1.4. Supplier's details

Braskem America, Inc.  
 1735 Market Street  
 Philadelphia, PA 19103-7583  
 Tel: (800) 396 - 5251  
 productsafety@braskem.com

#### 1.5. Emergency phone number

Emergency number : CHEMTREC: +1 800 424 9300 (NORTH AMERICA)  
 CHEMTREC International: +1 1-703-527-3887

### SECTION 2 Hazard Identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Flammable liquid, Category 3	Flammable liquid and vapor.
Germ cell mutagenicity, Category 1B	May cause genetic defects.
Carcinogenicity, Category 1A	May cause cancer.
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	May cause respiratory irritation.
Aspiration hazard, Category 1	May be fatal if swallowed and enters airways.

#### 2.2. Label elements

##### GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Danger  
 Hazard statements (GHS US) : Flammable liquid and vapor  
 May be fatal if swallowed and enters airways  
 May cause respiratory irritation  
 May cause genetic defects.  
 May cause cancer.

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Precautionary statements (GHS US) : Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Keep container tightly closed.  
Ground/Bond container and receiving equipment.  
Use explosion-proof electrical equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Avoid breathing mist, spray, vapors.  
Use only outdoors or in a well-ventilated area.  
Wear protective clothing, protective gloves, eye protection.  
If swallowed: Immediately call a POISON CENTER.  
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
If inhaled: Remove person to fresh air and keep comfortable for breathing.  
If exposed or concerned: Get medical advice/attention.  
Call a POISON CENTER if you feel unwell.  
Do NOT induce vomiting.  
In case of fire: Use carbon dioxide (CO<sub>2</sub>), dry extinguishing powder, sand to extinguish.  
Store in a well-ventilated place. Keep container tightly closed.  
Store in a well-ventilated place. Keep cool.  
Store locked up.  
Dispose of contents/container to hazardous or special waste collection point, in accordance with local, national regulation.

### 2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

### 2.4. Hazards not otherwise classified

Other hazards which do not result in classification : Handling this product may result in electrostatic accumulation. Use proper grounding procedures. Spilled material may present a slipping hazard. Toxic to aquatic life with long lasting effects.

### 2.5. Unknown acute toxicity

No additional information available

## SECTION 3 Composition/information on ingredients

### 3.1. Substances

Substance type : UVCB  
Name : Cumene  
CAS-No. : 98-82-8

Name	Product identifier	%	GHS US classification
Cumene	CAS-No.: 98-82-8	≥ 93	Flam. Liq. 3, H226 Muta. 1B, H340 Carc. 1A, H350 STOT SE 3, H335 Asp. Tox. 1, H304

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Name	Product identifier	%	GHS US classification
Benzene	CAS-No.: 71-43-2	< 1	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Muta. 1B, H340 Carc. 1A, H350 STOT RE 1, H372 Asp. Tox. 1, H304

### 3.2. Mixtures

Not applicable

## SECTION 4 First aid measures

### 4.1. Description of necessary 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	: Remove person to fresh air and keep at rest in a position comfortable for breathing.
First-aid measures after skin contact	: Immediately remove contaminated clothing or footwear. Rinse skin with water/shower. Seek medical attention if ill effect or irritation develops. IF exposed or concerned: Get medical advice/attention.
First-aid measures after eye contact	: Rinse eyes with water as a precaution. Seek medical attention if ill effect or irritation develops.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. If vomiting occurs have person lean forward. Immediately call a poison center or doctor/physician.

### 4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects	: May cause cancer. May cause genetic defects.
Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: May cause slight temporary irritation. Symptoms may be delayed.
Symptoms/effects after eye contact	: Direct contact with the eyes is likely to be irritating. May cause slight temporary irritation.
Symptoms/effects after ingestion	: May be harmful if swallowed. May be fatal if swallowed and enters airways.

### 4.3. Indication of immediate medical attention and special treatment needed, if necessary

Note to physician : : Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Dry powder. Carbon dioxide. Sand.
Unsuitable extinguishing media	: Do not use a water jet since it may cause the fire to spread.

### 5.2. Specific hazards arising from the chemical

Fire hazard	: Flammable liquid and vapor. On combustion, forms: carbon oxides (CO and CO <sub>2</sub> ). Vapors may cause fire/explosion if source of ignition is present. Heavier than air, vapors may travel long distances along ground, ignite and flash back to source. Material can accumulate some static charge during transfer.
Explosion hazard	: May form flammable/explosive vapor-air mixture. Heat may cause pressure rise with explosion of tanks/drums. Heavier than air, vapors may travel long distances along ground, ignite and flash back to source.
Hazardous decomposition products in case of fire	: On combustion, forms: carbon oxides (CO and CO <sub>2</sub> ).

### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
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Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. For further information refer to section 8: "Exposure controls/personal protection".

### SECTION 6 Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate unnecessary personnel. Use special care to avoid static electric charges. No open flames. No smoking. Eliminate all ignition sources if safe to do so. Handling this product may result in electrostatic accumulation. Use proper grounding procedures. Avoid contact with spilled material. Spilled material may present a slipping hazard. Notify authorities if product enters sewers or public waters.

#### For non-emergency personnel

Protective equipment : Wear personal protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Avoid any direct contact with the product. Evacuate unnecessary personnel. Avoid breathing mist, spray, vapors. Stop leak if safe to do so. Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes.

#### For emergency responders

Protective equipment : Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Ventilate area. Avoid all eye and skin contact and do not breathe vapor and mist. Spilled material may present a slipping hazard. Eliminate every possible source of ignition. No open flames, no sparks, and no smoking. Prevent runoff from entering water courses, sewers and basements.

Environmental precautions : Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.2. Methods and materials for containment and cleaning up

For containment : Stop leaks if it can be done without personal risk. Use non-sparking tools. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Take precautionary measures against static discharge. Consult the appropriate authorities about waste disposal. Handling this product may result in electrostatic accumulation. Use proper grounding procedures. Notify authorities if product enters sewers or public waters.

Other information : Dispose in a safe manner in accordance with local/national regulations.

For further information refer to section 8: "Exposure controls/personal protection". For disposal of contaminated materials refer to section 13 : "Disposal considerations".

### SECTION 7 Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapor. No open flames. No smoking. Take precautionary measures against static discharge. Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use only non-sparking tools. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing mist, spray, vapors. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes.

Hygiene measures : Wash hands thoroughly after handling. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product.

Additional hazards when processed : Handle empty containers with care because residual vapors are flammable. Handling this product may result in electrostatic accumulation. Use proper grounding procedures. Take precautionary measures to prevent the formation of static electricity.

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### 7.2. Conditions for safe storage, including incompatibilities

Technical measures	: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof equipment. Keep away from sources of ignition - No smoking.
Storage conditions	: Keep only in the original container in a cool well ventilated place. Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Storage area	: Store in a dry, cool and well-ventilated place. Store away from heat.
Incompatible materials	: Strong bases. Strong acids. Strong oxidizing agents.

## SECTION 8 Exposure controls/personal protection

### 8.1. Control parameters

Cumene (98-82-8)	
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Cumene
ACGIH® TLV® TWA	25 mg/m <sup>3</sup>
	5 ppm
Remark (ACGIH®)	TLV® Basis: URT adenoma; neurological eff. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
ACGIH® chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
Regulatory reference	ACGIH 2025
<b>USA - OSHA - Occupational Exposure Limits</b>	
Local name	Cumene
OSHA PEL TWA	245 mg/m <sup>3</sup>
	50 ppm
Limit value category (OSHA)	prevent or reduce skin absorption
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
<b>USA - Cal/OSHA - Occupational Exposure Limits</b>	
Local name	Cumene; isopropylbenzene
Cal/OSHA PEL (OEL TWA)	5 mg/m <sup>3</sup>
Remark (Cal/OSHA)	S - Skin notation and Protecting Clothing
Regulatory reference	California Division of Occupational Safety and Health (Cal/OSHA) - Permissible Exposure Limit for Chemical Contaminants (Table AC-1)
<b>USA - IDLH - Occupational Exposure Limits</b>	
IDLH	900 ppm (10% LEL)
<b>USA - NIOSH - Occupational Exposure Limits</b>	
Local name	Cumene
NIOSH REL TWA	245 mg/m <sup>3</sup>
	50 ppm
NIOSH REL 10h TWA	50 ppm
US-NIOSH chemical category	Potential for dermal absorption

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<b>Cumene (98-82-8)</b>	
Regulatory reference (US-NIOSH)	OSHA Annotated Table Z-1 (NIOSH Pocket Guide to Chemical Hazards (NPG))
<b>Benzene (71-43-2)</b>	
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Benzene
ACGIH® TLV® TWA	0.02 ppm
Remark (ACGIH®)	TLV® Basis: Myelodysplastic syndrome; acute myeloid leukemia; leukemia; hematologic eff; chromosomal dam. Notations: Skin; A1 (Confirmed Human Carcinogen); BEI
ACGIH® chemical category	Confirmed Human Carcinogen, Skin - potential significant contribution to overall exposure by the cutaneous route
Regulatory reference	ACGIH 2025
<b>USA - ACGIH - Biological Exposure Indices</b>	
Local name	Benzene
BEI	25 µg/g Kreatinin Parameter: S-Phenyl mercapturic acid - Medium: urine - Sampling time: End of shift - Notations: B 500 µg/g Kreatinin Parameter: t,t-Muconic acid - Medium: urine - Sampling time: End of shift - Notations: B
Regulatory reference	ACGIH 2025
<b>USA - OSHA - Occupational Exposure Limits</b>	
Local name	Benzene
OSHA PEL TWA	10 ppm
OSHA PEL STEL	5 ppm (see 29 CFR 1910.1028)
OSHA PEL C	25 ppm
Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr shift	50 ppm 10 mins.
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-2
<b>USA - Cal/OSHA - Occupational Exposure Limits</b>	
Local name	Benzene [Benzol]
Cal/OSHA PEL (OEL TWA)	1 ppm
Cal/OSHA STEL	5 ppm
Remark (Cal/OSHA)	S - Skin notation and Protecting Clothing
Regulatory reference	California Division of Occupational Safety and Health (Cal/OSHA) - Permissible Exposure Limit for Chemical Contaminants (Table AC-1)
<b>USA - IDLH - Occupational Exposure Limits</b>	
IDLH	500 ppm
<b>USA - NIOSH - Occupational Exposure Limits</b>	
Local name	Benzene
NIOSH REL TWA	0.1 ppm
NIOSH REL 10h TWA	0.1 ppm

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Benzene (71-43-2)	
NIOSH REL STEL	1 ppm
Remark (NIOSH)	Ca = Potential occupational carcinogens
Regulatory reference (US-NIOSH)	OSHA Annotated Table Z-2 (NIOSH Pocket Guide to Chemical Hazards (NPG))

### 8.2. Appropriate engineering controls

Appropriate engineering controls	: Provide local exhaust or general room ventilation. Avoid the formation of mists in the atmosphere. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Handling this product may result in electrostatic accumulation. Use proper grounding procedures. Use spark-/explosionproof appliances and lighting system.
Environmental exposure controls	: Avoid release to the environment.

### 8.3. Individual protection measures, such as personal protective equipment

<b>Hand protection:</b>
Chemically resistant protective gloves. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. ISO 374-1
<b>Eye protection:</b>
Chemical goggles or safety glasses. ISO 16321-1
<b>Skin and body protection:</b>
Long sleeved protective clothing.
<b>Respiratory protection:</b>
An approved organic vapor respirator/supplied air or self-contained breathing apparatus must be used when vapor concentration exceeds applicable exposure limits

#### Other information:

Do not eat, drink or smoke during use.

## SECTION 9 Physical and chemical properties

### 9.1. Basic physical and chemical properties

Physical state	: Liquid
Appearance	: Clear.
Color	: Yellowish
Odor	: aromatic odor
Odor threshold	: No data available
pH	: No data available
Melting point	: -96 °C
Freezing point	: -96 °C
Boiling point	: 152 °C
Flash point	: 43.9 °C (111.02 °F; (Closed cup))
Flammability (solid, gas)	: Flammable liquid and vapor.
Vapor pressure	: 0.427 kPa (20 °C / 68 °F)
Relative vapor density at 20°C	: 4.1
Relative density	: 0.858 – 0.94 g/cm <sup>3</sup> (20 °C / 68 °F)
Density	: 0.858 – 0.94 (20 °C / 68 °F)
Solubility	: Soluble in : Ethanol. Benzene. Acetone. Diethyl ether. Carbon tetrachloride. Petroleum ether. Water: 61.3 mg/l
Partition coefficient n-octanol/water (Log Pow)	: 3.55 (at 23 °C) 3.66

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Auto-ignition temperature	: 420 °C
Decomposition temperature	: No data available
Viscosity, kinematic	: 0.85 mm <sup>2</sup> /s (25 °C / 77 °F)
Explosion limits	: 0.9 – 6.5 vol % Upper explosion limit: 0.9 – 6.5 %
Particle characteristics	: No data available

### 9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

## SECTION 10 Stability and reactivity

### 10.1. Reactivity

Flammable liquid and vapor. Heavier than air, vapors may travel long distances along ground, ignite and flash back to source. May form flammable/explosive vapor-air mixture.

### 10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

### 10.3. Possibility of hazardous reactions

Static-accumulating.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.

### 10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. In the event of thermal decomposition : May release flammable gases. Carbon oxides (CO, CO<sub>2</sub>).

## SECTION 11 Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)

Cumene (98-82-8)	
LD50 oral rat	2260 mg/kg body weight
LD50 dermal rat	10600 mg/kg
LD50 dermal rabbit	> 3160 mg/kg body weight Animal: rabbit
LC50 Inhalation - Rat	39 mg/l/4h
LC50 Inhalation - Rat [ppm]	> 3577 ppm (Exposure time: 6 h Source: JAPAN_GHS)
ATE US (oral)	2260 mg/kg body weight
ATE US (dermal)	10600 mg/kg body weight
ATE US (vapors)	39 mg/l/4h
ATE US (dust, mist)	39 mg/l/4h

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)

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Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)

Respiratory or skin sensitization : Not classified (Based on available data, the classification criteria are not met)

Germ cell mutagenicity : May cause genetic defects.

Carcinogenicity : May cause cancer.

<b>Cumene (98-82-8)</b>	
IARC group	2B - Possibly carcinogenic to humans
National Toxicity Program (NTP) Status	Reasonably anticipated to be Human Carcinogen, Evidence of Carcinogenicity
In OSHA Hazard Communication Carcinogen list	Yes

<b>Benzene (71-43-2)</b>	
IARC group	1 - Carcinogenic to humans
National Toxicity Program (NTP) Status	Known Human Carcinogens, Evidence of Carcinogenicity
In OSHA Hazard Communication Carcinogen list	Yes
In OSHA Specifically Regulated Carcinogen list	Yes

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

STOT-single exposure : May cause respiratory irritation.

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

<b>Benzene (71-43-2)</b>	
NOAEL (oral, rat, 90 days)	100 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEC (inhalation, rat, 90 days)	96 mg/m <sup>3</sup>
STOT-repeated exposure	Causes damage to organs (hematopoietic system) through prolonged or repeated exposure.

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

<b>Cumene (98-82-8)</b>	
Viscosity, kinematic	0.85 mm <sup>2</sup> /s (25 °C / 77 °F)

<b>Benzene (71-43-2)</b>	
Viscosity, kinematic	0.686 mm <sup>2</sup> /s

Symptoms/effects : May cause cancer. May cause genetic defects.

Symptoms/effects after inhalation : May cause respiratory irritation.

Symptoms/effects after skin contact : May cause slight temporary irritation. Symptoms may be delayed.

Symptoms/effects after eye contact : Direct contact with the eyes is likely to be irritating. May cause slight temporary irritation.

Symptoms/effects after ingestion : May be harmful if swallowed. May be fatal if swallowed and enters airways.

Other information : Likely routes of exposure: ingestion, inhalation, skin and eye.

## SECTION 12 Ecological information

### 12.1. Ecotoxicity

Hazardous to the aquatic environment, short-term (acute) : Not a OSHA HazCom 2024 hazard endpoint

Hazardous to the aquatic environment, long-term (chronic) : Not a OSHA HazCom 2024 hazard endpoint

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### 12.2. Persistence and degradability

#### Cumene (98-82-8)

Persistence and degradability	Not established.
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#### Benzene (71-43-2)

Persistence and degradability	Readily biodegradable in water.
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### 12.3. Bioaccumulative potential

#### Cumene (98-82-8)

BCF - Fish [1]	(35.5 dimensionless)
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Partition coefficient n-octanol/water (Log Pow)	3.55 (at 23 °C)
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Partition coefficient n-octanol/water (Log Kow)	3.66
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Bioaccumulative potential	Not established.
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#### Benzene (71-43-2)

BCF - Fish [1]	3.5 – 4.4
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Bioconcentration factor (BCF REACH)	> 2000
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Partition coefficient n-octanol/water (Log Pow)	2.13
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Partition coefficient n-octanol/water (Log Kow)	2.13
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Bioaccumulative potential	not bioaccumulable.
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### 12.4. Mobility in soil

#### Benzene (71-43-2)

Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.12742878
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### 12.5. Other adverse effects

Ozone : Not a OSHA HazCom 2024 hazard endpoint

Fluorinated greenhouse gases : No

Other information : Avoid release to the environment.

## SECTION 13 Disposal considerations

Regional legislation (waste) : U.S. - RCRA (Resource Conservation Recovery Act) - U Series Wastes - Acutely Toxic Wastes Other Hazardous Characteristics.

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Consult the appropriate local waste disposal expert about waste disposal. Dispose of contents/container to comply with applicable local, national and international regulations.

Additional information : Handle empty containers with care because residual vapors are flammable. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose containers to flames, sparks, heat, or other potential ignition sources. Do not re-use empty containers.

Ecological waste information : Avoid release to the environment. Hazardous waste due to toxicity.





## SECTION 14 Transport information

In accordance with DOT / TDG / IMDG / IATA

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DOT	TDG	IMDG	IATA
<b>14.1. UN number</b>			
UN1918	UN1918	1918	1918
<b>14.2. Proper Shipping Name</b>			
Isopropylbenzene	ISOPROPYLBENZENE	ISOPROPYLBENZENE	Isopropylbenzene
<b>14.3. Transport hazard class(es)</b>			
3	3	3	3
			
<b>14.4. Packing group</b>			
III	III	III	III
<b>14.5. Environmental hazards</b>			
Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes
No supplementary information available			

### 14.6. Transport in bulk

Product Name : PROPYLBENZENE (ALL ISOMERS)  
 Ship type : 3  
 Pollution category : Y

### 14.7. Special precautions for user

**DOT**  
 UN-No. (DOT) : UN1918  
 DOT Special Provisions (49 CFR 172.102) : B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable.  
 IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). 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, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).  
 T2 - 1.5 178.274(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.

DOT Packaging Exceptions (49 CFR 173.xxx) : 150  
 DOT Packaging Non Bulk (49 CFR 173.xxx) : 203  
 DOT Packaging Bulk (49 CFR 173.xxx) : 242  
 DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 60 L  
 DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 220 L  
 DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

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### TDG

UN-No. (TDG)	: UN1918
Explosive Limit and Limited Quantity Index	: 5 L
Excepted quantities (TDG)	: E1
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	: 60 L
Emergency Response Guide (ERG) Number	: 130

### IMDG

Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T2
Tank special provisions (IMDG)	: TP1
EmS-No. (Fire)	: F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS
EmS-No. (Spillage)	: S-E - SPILLAGE SCHEDULE Echo - FLAMMABLE LIQUIDS, FLOATING ON WATER
Stowage category (IMDG)	: A
Flash point (IMDG)	: 31°C c.c.
Properties and observations (IMDG)	: Colorless liquid with a chloroform-like odor. Flashpoint: 31°C c.c. Explosive limits: 0.9% to 6.5%. Immiscible with water.

### IATA

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y344
PCA limited quantity max net quantity (IATA)	: 10L
PCA packing instructions (IATA)	: 355
PCA max net quantity (IATA)	: 60L
CAO packing instructions (IATA)	: 366
CAO max net quantity (IATA)	: 220L
ERG code (IATA)	: 3L

## SECTION 15 Regulatory information

### 15.1. Federal regulations

<b>Cumene (98-82-8)</b>	
Subject to reporting requirements of United States SARA Section 313 Listed on EPA Hazardous Air Pollutant (HAPS)	
CERCLA RQ	5000 lb

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory
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Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.		
Benzene	CAS-No. 71-43-2	< 1%

<b>Benzene (71-43-2)</b>	
Listed on EPA Hazardous Air Pollutant (HAPS)	
CERCLA RQ	10 lb received an adjusted RQ of 10 lbs based on potential carcinogenicity in an August 14, 1989 final rule

# Cumene

## Safety Data Sheet

according to US HazCom 2024

### 15.2. International regulations

No additional information available

### 15.3. State regulations

Cumene (98-82-8)	
U.S. - California - Proposition 65 - Carcinogens List	Yes
U.S. - California - Proposition 65 - Developmental Toxicity	No
U.S. - California - Proposition 65 - Reproductive Toxicity - Female	No
U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No
State or local regulations	U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Minnesota - Hazardous Substance List U.S. - Massachusetts - Right To Know List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List



**WARNING:**

This product can expose you to Cumene, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Component	State or local regulations
Benzene(71-43-2)	U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List; U.S. - Minnesota - Hazardous Substance List; U.S. - Massachusetts - Right To Know List; U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances; U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List; U.S. - Maine - Chemicals of Concern

### SECTION 16 Other information

according to US HazCom 2024

Revision date : 27 May 2026  
Issue date : 3 June 2015  
Other information : None.

Safety Data Sheet (SDS), USA - Braskem

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. It warns that the handling of any chemical substance requires the previous knowledge of its hazards for the user. It is up to the user of the product company providing this SDS to and promote the training of its employees about possible risks come upon of the product. The information contained herein is not absolute, but only general information on the use of the chemical and indication of safety and security measures.