US

# Safety Data Sheet acc. to OSHA HCS

Printing date 08/23/2023

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Reviewed on 08/23/2023

Identification	
Product identifier	
Trade name: <u>Cumene 99%</u>	
Article number: C8405	
CAS Number:	
98-82-8 • <b>EC number:</b>	
202-704-5	AQUA
Index number:	SOLUTIONS
601-024-00-X	
• Details of the supplier of the safety da • Manufacturer/Supplier:	ita sheet
Aqua Solutions, Inc.	
6913 Highway 225	
DEER PARK, TX 77536	
USA 800-256-2586	
Information department:	
Technical Coordinator	
Sherman Nelson shermann@aquasolu	tions.org
• <i>Emergency telephone number:</i> <i>Chemtrec: 800-424-9300</i>	
<i>Canutec:</i> 613-996-6666	
Hazard(s) identification • Classification of the substance or mix	ture
	ture
Classification of the substance or mix	ture H226 Flammable liquid and vapor.
Classification of the substance or mix GHS02 Flame	
Classification of the substance or mix GHS02 Flame Flammable Liquids 3 GHS08 Health hazard	
Classification of the substance or mix GHS02 Flame Flammable Liquids 3 GHS08 Health hazard	H226 Flammable liquid and vapor.
Classification of the substance or mix GHS02 Flame Flammable Liquids 3 GHS08 Health hazard Carcinogenicity 1A	H226 Flammable liquid and vapor. H350 May cause cancer.
Classification of the substance or mix GHS02 Flame Flammable Liquids 3 GHS08 Health hazard Carcinogenicity 1A Aspiration Hazard 1 GHS07 Specific Target Organ Toxicity - Single	H226 Flammable liquid and vapor. H350 May cause cancer.
Classification of the substance or mix GHS02 Flame Flammable Liquids 3 GHS08 Health hazard Carcinogenicity 1A Aspiration Hazard 1 GHS07 Specific Target Organ Toxicity - Single Label elements	H226 Flammable liquid and vapor. H350 May cause cancer. H304 May be fatal if swallowed and enters airways. e Exposure 3 H335 May cause respiratory irritation.
Classification of the substance or mix GHS02 Flame Flammable Liquids 3 GHS08 Health hazard Carcinogenicity 1A Aspiration Hazard 1 GHS07 Specific Target Organ Toxicity - Single Label elements GHS label elements The substance is o	H226 Flammable liquid and vapor. H350 May cause cancer. H304 May be fatal if swallowed and enters airways. e Exposure 3 H335 May cause respiratory irritation.
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#### Trade name: Cumene 99%

(Contd. of	page 1)
· Hazard statements	
Flammable liquid and vapor.	
May cause cancer.	
May cause respiratory irritation.	
May be fatal if swallowed and enters airways.	
· Precautionary statements	
Obtain special instructions before use.	
Do not handle until all safety precautions have been read and understood.	
Keep away from heat/sparks/open flames/hot surfaces No smoking.	
Ground/bond container and receiving equipment.	
Use explosion-proof electrical/ventilating/lighting/equipment.	
Use only non-sparking tools.	
Take precautionary measures against static discharge.	
Avoid breathing dust/fume/gas/mist/vapors/spray	
Use only outdoors or in a well-ventilated area.	
Wear protective gloves/protective clothing/eye protection/face protection.	
If swallowed: Immediately call a poison center/doctor.	
Do NOT induce vomiting.	
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/doctor if you feel unwell.	
In case of fire: Use CO2, powder or water spray 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 in accordance with local/regional/national/international regulations.	
· Classification system:	
· NFPA ratings (scale 0 - 4)	
Health = 1	
$\frac{3}{Fire = 3}$	
$\frac{1}{1} \frac{1}{1} \frac{1}$	
Keucuvuy = 0	
· HMIS-ratings (scale 0 - 4)	
<b>HEALTH *1</b> $Health = *1$	
FIRE 3 $Fire = 3$	
<b>REACTIVITY</b> Reactivity = 0	
· Other hazards	
· Results of PBT and vPvB assessment	
· <b>PBT:</b> Not applicable.	
• <b>vPvB:</b> Not applicable.	
3 Composition/information on ingredients	
· Chemical characterization: Substances	
· CAS No. Description	
CAS: 98-82-8 Cumene	
· Identification number(s)	
• EC number: 202-704-5	2)

(Contd. on page 3)

Printing date 08/23/2023

Reviewed on 08/23/2023

(Contd. of page 2)

Trade name: Cumene 99%

• Index number: 601-024-00-X

#### 4 First-aid measures

- · Description of first aid measures
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

## **5** Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- $\cdot \textit{For safety reasons unsuitable extinguishing agents: Water with full jet}$
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

#### 6 Accidental release measures

- *Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.*
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13.

- Ensure adequate ventilation.
- Reference to other sections
   See Section 7 for information on safe handling.
   See Section 8 for information on personal protection equipment.
   See Section 13 for disposal information.
- · Protective Action Criteria for Chemicals
- **PAC-1:** 50 ppm
- PAC-2: 300 ppm
- · PAC-3: 730 ppm

#### 7 Handling and storage

- · Handling:
- · Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- · Information about protection against explosions and fires:
- Keep ignition sources away Do not smoke. Protect against electrostatic charges.

(Contd. on page 4)

US

Printing date 08/23/2023

Reviewed on 08/23/2023

Trade name: Cumene 99%

(Contd. of page 3)

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- *Specific end use(s) No further relevant information available.*

#### 8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see section 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

·Com	ponenis wiin timu values inai require monuoring at the workplace:		
CAS.	: 98-82-8 Cumene		
PEL	Long-term value: 245 mg/m³, 50 ppm Skin		
REL	Long-term value: 245 mg/m³, 50 ppm Skin		
TLV	Long-term value: 5 ppm A3		
• Additional information: The lists that were valid during the creation were used as basis.			
· Expo	osure controls		

- · Personal protective equipment:
- General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Store protective clothing separately.
- · Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

• Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

- Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation  $\cdot$  *Material of gloves*
- The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- · Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 5)

Printing date 08/23/2023

Reviewed on 08/23/2023

Trade name: Cumene 99%

• Eye protection:

(Contd. of page 4)



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Tightly sealed goggles

· Body protection: Protective work clothing

Information on basic physical and o	chemical properties
General Information	
Appearance:	
Form:	Fluid
Color:	Colorless
Odor:	Unpleasant
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	-96.9 °C (-142.4 °F)
Boiling point/Boiling range:	152 °C (305.6 °F)
Flash point:	31 °C (87.8 °F)
Flammability (solid, gaseous):	Flammable.
Auto igniting:	420 °C (788 °F)
Decomposition temperature:	Not determined.
Ignition temperature:	Not determined.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapo mixtures are possible.
Explosion limits:	
Lower:	0.8 Vol %
Upper:	6 Vol %
Vapor pressure at 20 °C (68 °F):	5 hPa (3.8 mm Hg)
Density at 20 °C (68 °F):	0.86 g/cm <sup>3</sup> (7.1767 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water at 20 •C (68 •F):	0.2 g/l
Partition coefficient (n-octanol/wate	e <b>r):</b> Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Other information	No further relevant information available.

(Contd. on page 6)

Printing date 08/23/2023

Reviewed on 08/23/2023

Trade name: Cumene 99%

(Contd. of page 5)

#### **10 Stability and reactivity**

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

#### **11 Toxicological information**

- · Information on toxicological effects
- Acute toxicity:
- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) 2B
- · NTP (National Toxicology Program) R
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

#### **12** Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:
- Water hazard class 1 (Assessment by list): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. • **Results of PBT and vPvB assessment** 

- *Results of FBT and VFVB assess* • *PBT:* **Not applicable.**
- **vPvB:** Not applicable.
- Other adverse effects No further relevant information available.

#### **13 Disposal considerations**

- $\cdot$  Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

(Contd. on page 7)

US

(Contd. of page 6)

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Uncleaned packagings:
Recommendation: Disposal must be made according to official regulations.

· Special precautions for userWarning: Fl· Hazard identification number (Kemler code): 30· EMS Number:F-E,S-E· Stowage CategoryA· Transport in bulk according to Annex II of MARPOL73/78 and the IBC CodeNot applical	ENZENE
• DOT       Isopropylbet         • IMDG, IATA       ISOPROPYL         • Transport hazard class(es)       •         • DOT       •         • DOT       •         • Class       3 Flammabl         • Label       3         • IMDG, IATA       3         • Class       3 Flammabl         • Label       3         • Class       3 Flammabl         • Label       3         • Class       3 Flammabl         • Label       3         • Class       3 Flammabl         • DOT, IMDG, IATA       III         • Environmental hazards:       Environmental         • DOT, IMDG, IATA       III         • Environmental hazards:       Environmental         • Special precautions for user       Warning: Fl         • Hazard identification number (Kemler code): 30       F-E,S-E         • Stowage Category       A         • Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code       Not applical	ENZENE
IMDG, IATA       ISOPROPYI         Transport hazard class(es)       DOT         Impose the construction of the construction o	ENZENE
<ul> <li>Transport hazard class(es)</li> <li>DOT</li> <li>DOT</li> <li>Class 3 Flammabl 3</li> <li>IMDG, IATA</li> <li>IMDG, IATA</li> <li>Class 3 Flammabl 3</li> <li>Packing group</li> <li>DOT, IMDG, IATA</li> <li>Packing group</li> <li>DOT, IMDG, IATA</li> <li>Environmental hazards:</li> <li>Environmental hazards:</li> <li>Environmental hazards:</li> <li>Special precautions for user</li> <li>Warning: Flammable 30</li> <li>EMS Number:</li> <li>F-E,S-E</li> <li>Stowage Category</li> <li>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</li> </ul>	iquids
DOT Class 3 Flammabl Label 3 IMDG, IATA Class 3 Flammabl 1MDG, IATA Class 3 Flammabl 2 Jabel 3 Packing group DOT, IMDG, IATA III Environmental hazards: Environmen Special precautions for user Warning: Fl Hazard identification number (Kemler code): 30 EMS Number: F-E,S-E Stowage Category A Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applical	-
Class3 FlammableLabel3IMDG, IATAImpose3Class3 FlammableLabel3Class3 FlammableDot, IADG, IATA111Environmental hazards:EnvironmentalSpecial precautions for userWarning: FleHazard identification number (Kemler code):30EMS Number:F-E,S-EStowage CategoryATransport in bulk according to Annex II of MARPOL73/78 and the IBC CodeNot applical	-
Label       3         IMDG, IATA       IMDG, IATA         Impose       3         Impose       3         Class       3         Flammable       3         Label       3         Packing group       3         DOT, IMDG, IATA       III         Environmental hazards:       Environmental         Special precautions for user       Warning: Flammable         Special precautions for user       Warning: Flammable         Hazard identification number (Kemler code):       30         EMS Number:       F-E,S-E         Stowage Category       A         Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code       Not applical	-
Label3IMDG, IATA3IMDG, IATA3Image: Second Stress3 FlammableClass3 FlammableLabel3Packing group111DOT, IMDG, IATA111Environmental hazards:EnvironmentSpecial precautions for userWarning: FleHazard identification number (Kemler code):30EMS Number:F-E,S-EStowage CategoryATransport in bulk according to Annex II of MARPOL73/78 and the IBC CodeNot applical	-
<ul> <li>Class 3 Flammable</li> <li>Label 3</li> <li>Packing group</li> <li>DOT, IMDG, IATA III</li> <li>Environmental hazards: Environmental</li> <li>Special precautions for user Warning: Fle</li> <li>Hazard identification number (Kemler code): 30</li> <li>EMS Number: Fle</li> <li>Stowage Category A</li> <li>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicate</li> </ul>	iquids
Class3 FlammableLabel3Packing group3DOT, IMDG, IATAIIIEnvironmental hazards:EnvironmentalSpecial precautions for userWarning: FlHazard identification number (Kemler code):30EMS Number:F-E,S-EStowage CategoryATransport in bulk according to Annex II of MARPOL73/78 and the IBC CodeNot applical	iquids
DOT, IMDG, IATAIIIEnvironmental hazards:EnvironmentalSpecial precautions for userWarning: FlHazard identification number (Kemler code):30EMS Number:F-E,S-EStowage CategoryATransport in bulk according to Annex II of MARPOL73/78 and the IBC CodeNot applical	
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Special precautions for userWarning: FlHazard identification number (Kemler code): 30EMS Number:F-E,S-EStowage CategoryATransport in bulk according to Annex II of MARPOL73/78 and the IBC CodeNot applical	
Hazard identification number (Kemler code): 30EMS Number:F-E,S-EStowage CategoryATransport in bulk according to Annex II of MARPOL73/78 and the IBC CodeNot applical	lly hazardous substance, liquid; Marine Polluta
EMS Number:F-E,S-EStowage CategoryATransport in bulk according to Annex II of MARPOL73/78 and the IBC CodeNot applical	nmable liquids
Stowage CategoryATransport in bulk according to Annex II of MARPOL73/78 and the IBC CodeNot applical	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicat	
MARPOL73/78 and the IBC Code Not applicat	
	2
Transport/Additional information:	
DOT	
	aircraft/rail: 60 L
	raft only: 220 L
Hazardous substance: 5000 lbs, 22	l kg
·IMDG	
Limited quantities (LQ) 5L	
Excepted quantities (EQ) Code: E1	
Maximum no Maximum no	

Printing date 08/23/2023

Reviewed on 08/23/2023

(Contd. of page 7)

US

Trade name: Cumene 99%

• UN ''Model Regulation'':

UN 1918 ISOPROPYLBENZENE, 3, III

#### **15 Regulatory information**

 $\cdot$  Safety, health and environmental regulations/legislation specific for the substance or mixture  $\cdot$  Sara

• Section 355 (extremely hazardous substances): Substance is not listed.

- Section 313 (Specific toxic chemical listings): Substance is listed.
- · TSCA (Toxic Substances Control Act): ACTIVE
- · Hazardous Air Pollutants Substance is listed.
- · Proposition 65
- · Chemicals known to cause cancer: Substance is listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is not listed.
- · Carcinogenic categories
- · EPA (Environmental Protection Agency) D, CBD
- TLV (Threshold Limit Value) Substance is not listed.
- · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- *GHS label elements* The substance is classified and labeled according to the Globally Harmonized System (GHS). *Hazard pictograms*



· Signal word Danger	
Hazard statements	
Flammable liquid and vapor.	
May cause cancer.	
May cause respiratory irritation.	
May be fatal if swallowed and enters airways.	
Precautionary statements	
Obtain special instructions before use.	
Do not handle until all safety precautions have been read and understood.	
Keep away from heat/sparks/open flames/hot surfaces No smoking.	
Ground/bond container and receiving equipment.	
Use explosion-proof electrical/ventilating/lighting/equipment.	
Use only non-sparking tools.	
Take precautionary measures against static discharge.	
Avoid breathing dust/fume/gas/mist/vapors/spray	
Use only outdoors or in a well-ventilated area.	
Wear protective gloves/protective clothing/eye protection/face protection.	
If swallowed: Immediately call a poison center/doctor.	
Do NOT induce vomiting.	
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/doctor if you feel unwell.	
In case of fire: Use CO2, powder or water spray to extinguish.	
	(Contd. on page 9)

Printing date 08/23/2023

Reviewed on 08/23/2023

#### Trade name: Cumene 99%

(Contd. of page 8)

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 in accordance with local/regional/national/international regulations.

#### · National regulations:

· Information about limitation of use:

Workers are not allowed to be exposed to this hazardous material. Exceptions can be made by the authorities in certain cases.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Environment protection department.

· Contact:

• Date of preparation / last revision Revision 1.1, 08-23-2023: Updated SDS to match Supplier SDS. STN 08/23/2023

· Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit **REL:** Recommended Exposure Limit Flammable Liquids 3: Flammable liquids – Category 3 Carcinogenicity 1A: Carcinogenicity - Category 1A Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) - Category 3 Aspiration Hazard 1: Aspiration hazard – Category 1  $\cdot$  \* Data compared to the previous version altered.