

SAFETY DATA SHEET

CARBOPOL-940

Product Trade Name:

Revision Date: 11-May-2015

Revision Number: 8

1. Identification

1.1. Product Identifier

Product Trade Name: CARBOPOL-940
Synonyms: None
Chemical Family: Polymer
Internal ID Code: HM000153

1.2 Recommended use and restrictions on use

Application: Calibration material
Uses Advised Against: No information available

1.3 Manufacturer's Name and Contact Details

Manufacturer/Supplier: Halliburton Energy Services Inc.
P.O. Box 1431
Duncan, Oklahoma 73536-0431
Emergency Telephone: (281) 575-5000

Prepared By: Chemical Stewardship
Telephone: 1-580-251-4335
e-mail: fdunexchem@halliburton.com

1.4. Emergency telephone number

Emergency Telephone Number: (281) 575-5000

2. Hazard(s) Identification

2.1 Classification in accordance with paragraph (d) of §1910.1200

Germ Cell Mutagenicity	Category 1 - H340
Carcinogenicity	Category 1A - H350

2.2. Label Elements

Hazard Pictograms



Signal Word: Danger

Hazard Statements: H340 - May cause genetic defects
H350 - May cause cancer

Precautionary Statements

- Prevention** P201 - Obtain special instructions before use
 P202 - Do not handle until all safety precautions have been read and understood
 P280 - Wear protective gloves/protective clothing/eye protection/face protection
- Response** P308 + P313 - IF exposed or concerned: Get medical advice/attention
- Storage** P405 - Store locked up
- Disposal** P501 - Dispose of contents/container in accordance with local/regional/national/international regulations

Contains Substances
Benzene

CAS Number
71-43-2

2.3 Hazards not otherwise classified

None known

3. Composition/information on Ingredients

Substances	CAS Number	PERCENT (w/w)	GHS Classification - US
Benzene	71-43-2	0.1 - 1%	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Muta. 1 (H340) Carc. 1A (H350) STOT RE 1 (H372) Asp. Tox. 1 (H304) Aquatic Acute 2 (H401) Flam. Liq. 2 (H225)

The exact percentage (concentration) of the composition has been withheld as proprietary.

4. First-Aid Measures

4.1. Description of first aid measures

- Inhalation** If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.
- Eyes** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.
- Skin** Wash with soap and water. Get medical attention if irritation persists.
- Ingestion** Do NOT induce vomiting. Give nothing by mouth. Obtain immediate medical attention.

4.2 Most important symptoms/effects, acute and delayed

May cause heritable genetic damage Carcinogen.

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

Notes to Physician Treat symptomatically.

5. Fire-fighting measures

5.1. Extinguishing media

Suitable Extinguishing Media

Water fog, carbon dioxide, foam, dry chemical.

Extinguishing media which must not be used for safety reasons

None known.

5.2 Specific hazards arising from the substance or mixture**Special Exposure Hazards**

Decomposition in fire may produce toxic gases.

5.3 Special protective equipment and precautions for fire-fighters**Special Protective Equipment for Fire-Fighters**

Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

6. Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Use appropriate protective equipment. Avoid creating and breathing dust.

See Section 8 for additional information

6.2. Environmental precautions

Prevent from entering sewers, waterways, or low areas.

6.3. Methods and material for containment and cleaning up

Scoop up and remove.

7. Handling and storage**7.1. Precautions for Safe Handling****Handling Precautions**

Avoid creating or inhaling dust.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities**Storage Information**

Store away from alkalis. Store in a cool, dry location.

8. Exposure Controls/Personal Protection**8.1 Occupational Exposure Limits**

Substances	CAS Number	OSHA PEL-TWA	ACGIH TLV-TWA
Benzene	71-43-2	1 ppm	TWA: 0.5 ppm STEL: 2.5 ppm

8.2 Appropriate engineering controls**Engineering Controls**

Use in a well ventilated area.

8.3 Individual protection measures, such as personal protective equipment**Personal Protective Equipment**

If engineering controls and work practices cannot prevent excessive exposures, the selection and proper use of personal protective equipment should be determined by an industrial hygienist or other qualified professional based on the specific application of this product.

Respiratory Protection

Dust/mist respirator. (N95, P2/P3)

Hand Protection

Normal work gloves.

Skin Protection

Normal work coveralls.

Eye Protection Wear safety glasses or goggles to protect against exposure.
Other Precautions None known.

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical State: Solid **Color:** White
Odor: Mild acidic **Odor** No information available
Threshold:

<u>Property</u> <u>Remarks/ - Method</u>	<u>Values</u>
pH:	3
Freezing Point/Range	No data available
Melting Point/Range	No data available
Boiling Point/Range	No data available
Flash Point	No data available
Flammability (solid, gas)	No data available
upper flammability limit	No data available
lower flammability limit	No data available
Evaporation rate	No data available
Vapor Pressure	No data available
Vapor Density	No data available
Specific Gravity	1.41
Water Solubility	Partly soluble
Solubility in other solvents	No data available
Partition coefficient: n-octanol/water	No data available
Autoignition Temperature	520 °C / 968 °F
Decomposition Temperature	No data available
Viscosity	No data available
Explosive Properties	No information available
Oxidizing Properties	No information available

9.2. Other information

VOC Content (%) No data available

10. Stability and Reactivity

10.1. Reactivity

Not expected to be reactive.

10.2. Chemical Stability

Stable

10.3. Possibility of Hazardous Reactions

Will Not Occur

10.4. Conditions to Avoid

Avoid contact with alkalis.

10.5. Incompatible Materials

Strong alkalis.

10.6. Hazardous Decomposition Products

Toxic fumes. Fumes of aromatic hydrocarbons. Carbon monoxide and carbon dioxide.

11. Toxicological Information

11.1 Information on likely routes of exposure

Principle Route of Exposure Eye or skin contact, inhalation.

11.2 Symptoms related to the physical, chemical and toxicological characteristics

Acute Toxicity

Inhalation May cause respiratory irritation.
Eye Contact May cause mild eye irritation.
Skin Contact May cause skin irritation.
Ingestion May be harmful if swallowed.

Chronic Effects/Carcinogenicity Contains a small amount of benzene, a human carcinogen, repeat overexposures may result in bone marrow depression possibly leading to leukemia.

11.3 Toxicity data

Toxicology data for the components

Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
Benzene	71-43-2	1800 mg/kg (Rat) 5970 mg/kg (Rat)	> 8260 mg/kg (Guinea pig)	43.77 mg/L (Rat) 4h

Substances	CAS Number	Skin corrosion/irritation
Benzene	71-43-2	Skin, rabbit: Causes moderate skin irritation.

Substances	CAS Number	Eye damage/irritation
Benzene	71-43-2	Eye, rabbit: Causes moderate eye irritation.

Substances	CAS Number	Skin Sensitization
Benzene	71-43-2	Did not cause sensitization on humans or laboratory animals.

Substances	CAS Number	Respiratory Sensitization
Benzene	71-43-2	No data of sufficient quality are available.

Substances	CAS Number	Mutagenic Effects
Benzene	71-43-2	Some in vitro tests have shown mutagenic effects. Some in vivo tests have shown mutagenic effects.

Substances	CAS Number	Carcinogenic Effects
Benzene	71-43-2	This substance is a carcinogen.

Substances	CAS Number	Reproductive toxicity
Benzene	71-43-2	Adverse developmental effects were only observed at maternally toxic doses.

Substances	CAS Number	STOT - single exposure
Benzene	71-43-2	No significant toxicity observed in animal studies at concentration requiring classification.

Substances	CAS Number	STOT - repeated exposure
Benzene	71-43-2	Causes damage to organs through prolonged or repeated exposure: (Blood)

Substances	CAS Number	Aspiration hazard
Benzene	71-43-2	Aspiration into the lungs may cause chemical pneumonitis including coughing, difficulty breathing, wheezing, coughing up blood and pneumonia, which can be fatal.

12. Ecological Information

12.1. Toxicity**Ecotoxicity Effects****Product Ecotoxicity Data**

No data available

Substance Ecotoxicity Data

Substances	CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Toxicity to Invertebrates
Benzene	71-43-2	LC50 (72h) 100 mg/L (Pseudokirchnerella subcapitata)	LC50 (96h) 5.3 mg/L (Oncorhynchus mykiss)	No information available	LC50 (48h) 10 mg/L (Daphnia magna)

12.2. Persistence and degradability

Substances	CAS Number	Persistence and Degradability
Benzene	71-43-2	(102% @ 28d)

12.3. Bioaccumulative potential

Substances	CAS Number	Log Pow
Benzene	71-43-2	Log Kow = 2.13

12.4. Mobility in soil

Substances	CAS Number	Mobility
Benzene	71-43-2	KOC = >13

12.5 Other adverse effects

No information available

13. Disposal Considerations**13.1. Waste treatment methods**

Disposal Method Disposal should be made in accordance with federal, state, and local regulations.
Contaminated Packaging Follow all applicable national or local regulations.

14. Transport Information**US DOT**

UN Number: Not restricted
UN Proper Shipping Name: Not restricted
Transport Hazard Class(es): Not applicable
Packing Group: Not applicable
Environmental Hazards: Not applicable

US DOT Bulk

DOT (Bulk) Not applicable

Canadian TDG

UN Number: Not restricted
UN Proper Shipping Name: Not restricted
Transport Hazard Class(es): Not applicable
Packing Group: Not applicable

Environmental Hazards: Not applicable

IMDG/IMO

UN Number: Not restricted
UN Proper Shipping Name: Not restricted
Transport Hazard Class(es): Not applicable
Packing Group: Not applicable
Environmental Hazards: Not applicable

IATA/ICAO

UN Number: Not restricted
UN Proper Shipping Name: Not restricted
Transport Hazard Class(es): Not applicable
Packing Group: Not applicable
Environmental Hazards: Not applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

Special Precautions for User: None

15. Regulatory Information

US Regulations

US TSCA Inventory	All components listed on inventory or are exempt.
EPA SARA Title III Extremely Hazardous Substances	Not applicable
EPA SARA (311,312) Hazard Class	Chronic Health Hazard
EPA SARA (313) Chemicals	This product contains toxic chemical(s) listed below which is(are) subject to the reporting requirements of Section 313 of Title III of SARA and 40 CFR Part 372: Benzene//71-43-2
EPA CERCLA/Superfund Reportable Spill Quantity	Not applicable.
EPA RCRA Hazardous Waste Classification	If product becomes a waste, it does NOT meet the criteria of a hazardous waste as defined by the US EPA.
California Proposition 65	The California Proposition 65 regulations apply to this product.
MA Right-to-Know Law	One or more components listed.
NJ Right-to-Know Law	One or more components listed.
PA Right-to-Know Law	One or more components listed.

Canadian Regulations

Canadian DSL Inventory All components listed on inventory or are exempt.

16. Other information**Preparation Information**

Prepared By Chemical Stewardship
Telephone: 1-580-251-4335
e-mail: fdunexchem@halliburton.com

Revision Date: 11-May-2015

Reason for Revision Update to Format
SECTION:
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Additional information

For additional information on the use of this product, contact your local Halliburton representative.

For questions about the Safety Data Sheet for this or other Halliburton products, contact Chemical Stewardship at 1-580-251-4335.

Key or legend to abbreviations and acronyms

bw – body weight
CAS – Chemical Abstracts Service
EC50 – Effective Concentration 50%
ErC50 – Effective Concentration growth rate 50%
LC50 – Lethal Concentration 50%
LD50 – Lethal Dose 50%
LL50 – Lethal Loading 50%
mg/kg – milligram/kilogram
mg/L – milligram/liter
NIOSH – National Institute for Occupational Safety and Health
NTP – National Toxicology Program
OEL – Occupational Exposure Limit
PEL – Permissible Exposure Limit
ppm – parts per million
STEL – Short Term Exposure Limit
TWA – Time-Weighted Average
UN – United Nations
h - hour
mg/m³ - milligram/cubic meter
mm - millimeter
mmHg - millimeter mercury
w/w - weight/weight
d - day

Key literature references and sources for data

www.ChemADVISOR.com/
ECHA C&L
OSHA

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End of Safety Data Sheet