

CARBOPOL® 940 POLYMER,22*8OZ



Material Safety Data Sheet
 CARBOPOL® 940 POLYMER,22*8OZ

Prepared according to 29CFR 1910.1200.

1	Chemical Product and Company Identification
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THE LUBRIZOL CORPORATION
 9921 BRECKSVILLE RD
 BRECKSVILLE, OH 44141
 216-447-5000

Product Trade Name CARBOPOL® 940 POLYMER,22*8OZ
CAS Number 9003-01-4
Synonyms Carbomer
Generic Chemical Name Polyacrylic acid
Product Type Base Carbopol-Personal Care
Preparation/Revision Date 04 November 2013
Transportation Emergency Phone No. FOR TRANSPORT EMERGENCY call CHEMTREC: (+1) 703-527-3887 (outside the U.S.), 1-800-424-9300 (in the U.S.)
MSDS No. 13760040-6501111-3170341-102103

2	Hazards Identification
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Appearance White powder.
Odor Slight acetic
Principal Hazards Caution

- Airborne dust may form explosive mixtures with air.
- Dusts may be harmful if inhaled.
- Contains component (s) which cause cancer.



See Section 11 for complete health hazard information.

3	Composition/Information on Ingredients
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Hazardous Ingredients

Comp	CAS No.	Percentage (by wt.)	Carcinogen
Benzene	71-43-2	0.5%	IARC Human Carcinogen NTP Carcinogen OSHA Carcinogen

(N/E) - None established

4	First Aid Measures
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Eyes Immediately flush eyes with plenty of one percent (1%) physiological saline solution for five (5) minutes while holding eyelids open. If no saline is available, flush with plenty of clean water for fifteen (15) minutes. See a physician. Water (moisture) swells this product into a gelatinous film which may be difficult to remove from the eye using only water.
Skin Wash with soap and water. Get medical attention if irritation develops. Launder contaminated clothing before reuse
Inhalation Remove exposed person to fresh air if adverse effects are observed. If breathing is labored, administer oxygen. If breathing has stopped, apply artificial respiration. If irritation persists or if toxic symptoms are observed, get medical attention.
Oral Treat symptomatically. Get medical attention.
Additional Information If exposed or concerned: Get medical attention.

5	Fire Fighting Measures
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Flash Point Not applicable
Extinguishing Media CO2, dry chemical, foam, water spray, water fog. Carbon dioxide may be ineffective on larger fires due to a lack of cooling capacity which may result in reignition. Avoid hose stream or any method which will create dust clouds
Firefighting Procedures Wear full protective firegear including self-containing breathing apparatus operated in the positive pressure mode with full facepiece, coat, pants, gloves and boots
Unusual Fire & Explosion Hazards Solid does not readily release flammable vapors. Material can form an explosive organic dust air mixture. See section 10 for additional information.

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– Fire and Explosive Properties –

Min. Explosive Concentration	0.13 oz/ft ³ (130 g/m ³)
Min. Ignition Energy	> 0.03 joules
Deflagration Index	130 bar m/sec (6190 psi ft/sec)
Max. Rate of Pressure Rise	5500 psi/sec @ 0.5 oz/ft ³ (379.21 bar/s @ 501 g/m ³)
Max. Pressure of Explosion	70 psi @ 0.5 oz/ft ³ (4.83 bar @ 501 g/m ³)
Volume Resistivity	0.32 x 10 ⁺¹⁵ ohm-cm
Explosion Severity	2.02 (Severe)
Ignition Temperature of Dust Cloud	520 °C (968 °F)

This product has a high volume resistivity and a propensity to build up static electricity which may be discharged as a spark. A spark can be an ignition source for solvent vapor/air mixtures. If you add this product to a solvent, ensure appropriate safe handling practices such as provision for inerting flammable vapors. As with all organic dusts, fine particles suspended in air in critical proportions and in the presence of an ignition source may ignite and/or explode. Dust may be sensitive to ignition by electrostatic discharge, electrical arcs, sparks, welding torches, cigarettes, open flame, or other significant heat sources. As a precaution, implement standard safety measures for handling finely divided organic powders.

6	Accidental Release Measures
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Spill Procedures Personal Protective Equipment must be worn, see Personal Protection Section for PPE recommendations. Prevent entry into sewers and waterways. Pick up free solid for recycle and/or disposal. Avoid raising a dust. Wash spill area with detergent. Material is slippery when wet.

7	Handling and Storage
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Pumping Temperature Not applicable.
Maximum Handling Temperature Not determined.
Handling Procedures Keep material away from heat, sparks, pilot lights, static electricity and open flame. Avoid creating dust. Maintain good housekeeping practices. Avoid drinking, tasting, swallowing or ingesting this product. Avoid inhalation of dust, aerosol, mist, spray, fume, or vapor. Use with appropriate and adequate ventilation. Avoid contact with eyes, skin and clothing. Ground and bond containers when transferring material. Avoid prolonged skin contact. Launder contaminated clothing before reuse. Dispose of packaging or containers in accordance with local, regional, national and international regulations.
Maximum Storage Temperature Not determined.
Storage Procedures Store in a cool, dry, well-ventilated area. Keep container closed when not in use. Store locked up. See section 10 for incompatible materials.
Maximum Loading Temperature Not determined.

8	Exposure Controls/Personal Protection
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Exposure Limits

Comp	Exposure Guidelines					
	OSHA		ACGIH		Other	
	TWA	STEL	TWA	STEL	TWA	STEL
Benzene	10 ppm	25 ppm (c)	0.50 ppm (s)	2.50 ppm	0.10 ppm (l)	N/E

- (s) - Skin exposure
- (p) - Proposed limit
- (c) - Ceiling exposure
- (l) - Recommended exposure limit
- (u) - Supplier recommended exposure limit
- (N/E) - None established
- Confidential - See section 1 for HMIRA exemption status

Other Exposure Limits The industry-recommended permissible exposure limit for respirable polyacrylate dusts is 0.05 mg/m³
Engineering Controls If use generates a dust, local exhaust ventilation is recommended. Prevent inhalation by providing effective general and, when necessary, local exhaust ventilation to draw dust away from workers. Avoid high concentrations of dust in air and accumulation of dust on equipment.
Gloves Procedures Use good industrial hygiene practices to avoid skin contact. If contact with the material may occur wear chemically protective gloves.
Eye Protection Safety glasses or goggles.
Respiratory Protection Use NIOSH/MSHA approved respirator with a High Efficiency Particulate Air (HEPA) filter if the recommended exposure limit is exceeded. Consult with an industrial hygienist to determine the appropriate respiratory protection for your specific use of this material. A respiratory protection program compliant with all applicable regulations must be followed whenever workplace conditions require the use of a respirator.
Clothing Recommendation Gloves, coveralls, apron, boots as necessary to minimize contact.

9	Physical and Chemical Properties
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Flash Point Not applicable.
Upper Flammable Limit Not determined.

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Lower Flammable Limit	Not determined.
Autoignition Point	520 °C, 968 °F
Explosion Data	Dust can form explosive mixtures in the air.
Vapor Pressure	Not determined.
pH	2.5 - 3 at 1% in water
Specific Gravity	1.4 (20 °C)
Bulk Density	< 0.24 Kg/L, < 2 Lb/gal
Water Solubility	Material will swell in water.
Percent Solid	Not determined.
Percent Volatile	< 2%
Volatile Organic Compound	Not determined.
Vapor Density	Not determined.
Evaporation Rate	Not determined.
Odor	Slight acetic
Appearance	White powder.
Viscosity	Not determined.
Odor Threshold	Not determined.
Boiling Point	Not determined.
Pour Point Temperature	Not determined.
Melting / Freezing Point	Not determined.

The above data are typical values and do not constitute a specification. Vapor pressure data are calculated unless otherwise noted.

10	Stability and Reactivity
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Stability	Material is normally stable at moderately elevated temperatures and pressures.
Decomposition Temperature	Not determined.
Incompatibility	Heat may be generated if polymer comes in contact with strong basic materials like ammonia, sodium hydroxide or strong basic amines.
Polymerization	Will not occur.
Thermal Decomposition	Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion.
Conditions to Avoid	Not determined.

11	Toxicological Information
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– ACUTE EXPOSURE –

Eye Irritation	Not expected to cause eye irritation. Based on data from similar materials. Particulates may cause mechanical irritation. Solid particles (powder or dust) on the eye may cause pain and irritation.
Skin Irritation	Not expected to be a primary skin irritant. Based on data from similar materials. Contact dermatitis may occur in sensitive individuals under extreme and unusual conditions of prolonged and repeated contact, such as high exposure accompanied by elevated temperature and occlusion by clothing. This effect may be the result of the product's hygroscopic properties, abrasion, or pH.
Respiratory Irritation	Not expected to cause nose, throat and lung irritation. Based on data from similar materials. Breathing of dust may cause coughing, mucous production, and shortness of breath.
Dermal Toxicity	The LD50 in rabbits is > 2000 mg/Kg. Based on data from components or similar materials.
Inhalation Toxicity	Avoid inhalation of dust. Animal studies indicate the inhalation of respirable polyacrylate dust may cause inflammatory changes in the lung.
Oral Toxicity	The LD50 in rats is > 10,000 mg/Kg. Based on data from components or similar materials.
Dermal Sensitization	Not expected to cause skin sensitization. Based on data from components or similar materials.
Inhalation Sensitization	No data available to indicate product or components may be respiratory sensitizers.

– CHRONIC EXPOSURE –

Chronic Toxicity	A two-year inhalation study in rats exposed to a respirable, water-absorbent sodium polyacrylate dust resulted in lung effects such as inflammation, hyperplasia, and tumors. There were no observed adverse effects at exposures of 0.05 mg/m ³ . In addition, long-term medical monitoring of potentially exposed workers has not revealed lung effects such as those observed in the rat. However, the inhalation of respirable dusts should be avoided by implementing respiratory protection measures and observing the recommended permissible exposure limit of 0.05 mg/m ³ .
Carcinogenicity	Benzene is recognized as causing leukemia in humans.
Mutagenicity	Benzene has been examined for mutagenicity both in vitro and in vivo assays. It has shown mixed results for mutagenicity in vitro although in mammalian cells there is overall evidence for potential mutagenic activity. Benzene has been shown to be mutagenic in vivo in both somatic cells and germ cells.
Reproductive Toxicity	No data available to indicate either product or components present at greater than 0.1% that may cause reproductive toxicity.
Teratogenicity	No data available to indicate product or any components contained at greater than 0.1% may cause birth defects.

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– ADDITIONAL INFORMATION –

Other Pre-existing skin conditions may be aggravated by prolonged or repeated exposure. Persons with sensitive airways (e.g., asthmatics) may react to vapors. This material readily absorbs moisture and may become thick and gelatinous upon contact with mucous membranes of the eye, or upon inhalation into the nasal passages.

12	Ecological Information
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– ENVIRONMENTAL TOXICITY –

Freshwater Fish Toxicity	The acute LC50 is > 1000 mg/L based on actual data.
Freshwater Invertebrates Toxicity	The acute EC50 is > 1000 mg/L based on actual data.
Algal Inhibition	Not determined.
Saltwater Fish Toxicity	Not determined.
Saltwater Invertebrates Toxicity	Not determined.
Bacteria Toxicity	The acute EC50 is 100 - 1000 ppm based on component data.
Miscellaneous Toxicity	Not determined.

– ENVIRONMENTAL FATE –

Biodegradation	At least 25% of the components in this product show limited biodegradation based on OECD 301-type test data. At least 25% of the components in this product show limited biodegradation based on OECD 302-type test data.
Bioaccumulation	Less than 1.0% of the components display no potential to bioconcentrate.
Soil Mobility	Not determined.

13	Disposal Considerations
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Waste Disposal This material, if discarded, is a hazardous waste under RCRA Regulation 40 CFR 261. 0.5% Benzene, CAS no. 71-43-2, D018. Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.

14	Transport Information
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ICAO/IATA I	Not regulated.
ICAO/IATA II	Not regulated.
IMDG	Not regulated.
IMDG EMS Fire	Not applicable.
IMDG EMS Spill	Not applicable.
IMDG MFAG	Not applicable.
MARPOL Annex II	Not determined.
USCG Compatibility	Not determined.
U.S. DOT Bulk	UN3077 Environmentally hazardous substance, solid, n.o.s. (Benzene) 9, III, RQ (Benzene)
DOT NAERG	171
U.S. DOT (Intermediate)	UN3077 Environmentally hazardous substance, solid, n.o.s. (Benzene) 9, III, RQ (Benzene)
U.S. DOT Intermediate NAERG	171
U.S. DOT Non-Bulk	Not regulated.
U.S. DOT Non-Bulk NAERG	Not applicable.
Canada	Not regulated.
Mexico	Not regulated.
Bulk Quantity	25000 KG, 55115 lbs.
Intermediate Quantity	11000 KG, 24251 lbs.
Non-Bulk Quantity	400 KG, 882 lbs.

Review classification requirements before shipping materials at elevated temperatures.

15	Regulatory Information
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– Global Chemical Inventories –

USA	All components of this material are on the US TSCA Inventory or are exempt.
Other TSCA Reg.	None known.
EU	To obtain information on the REACH compliance status of this product, please visit Lubrizol.com/REACH , or e-mail us at REACH_MSDS_INQUIRIES@Lubrizol.com
Japan	All components are in compliance with the Chemical Substances Control Law of Japan.
Australia	All components are in compliance with chemical notification requirements in Australia.

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New Zealand All components are in compliance with chemical notification requirements in New Zealand.
Canada All components are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List.
Switzerland All components are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland.
Korea All components are in compliance in Korea.
Philippines All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A. 6969).
China All components of this product are listed on the Inventory of Existing Chemical Substances in China.
Taiwan All components of this product are listed on the Taiwan inventory.

– Other U.S. Federal Regulations –

SARA Ext. Haz. Subst. This product does not contain greater than 1.0% of any chemical substance on the SARA Extremely Hazardous Substances list.

SARA Section 313 0.5% Benzene, CAS no. 71-43-2

SARA 311 Classifications

Acute Hazard	No
Chronic Hazard	Yes
Fire Hazard	No
Reactivity Hazard	No

CERCLA Hazardous Substances

Transit Reportable Quantities

Component	Reportable Quantity RQ	Units	Reportable Quantity RQ	Units
Benzene	2005	lbs.	909	KG

– State Regulations –

Cal. Prop. 65 This product contains the following chemical(s) known to the state of California to cause cancer and/or birth defects: < 1 ppm arsenic < 1 ppm lead 0.499% Benzene, CAS no. 71-43-2

– Product Registrations –

U.S. Fuel Registration Not applicable.
Finnish Registration Number Not Registered
Swedish Registration Number Not Registered
Norwegian Registration Number Not Registered
Danish Registration Number Not Registered
Swiss Registration Number Not Registered
Italian Registration Number Not Registered

– Other / International –

Miscellaneous Regulatory Information Not determined.

16	Other Information
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US NFPA Codes

Health	Fire	Reactivity	Special
1	1	0	N/E

(N/E) - None established

HMIS Codes

Health	Fire	Reactivity
1*	1	0

Precautionary Labels

Caution.

- Airborne dust may form explosive mixtures with air.
- Dusts may be harmful if inhaled.
- Contains component (s) which cause cancer.

Revision Indicators

Section: 1 Product type. Changed: 21 August 2013
 Section: 11 Cacinogenicity. Changed: 21 August 2013

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