

Cancels and replaces version: 2

135 Joshua Court, Lincolnton, NC 28092 USA

FSS Carbomer	Page: 1/12

SECTION 1. IDENTIFICATION

Date: 04/14/2025

Product Name/Identifier Product Code	FSS Carbomer FSS00849
Recommended Use	Powder - Hair
Restrictions on Use	Refer to the detailed list of labeling/restrictions (Section 15 Regulatory Information)
Supplier Site Address	Formulator Sample Shop 135 Joshua Court Lincolnton, NC 28092, USA
Telephone No. (24hrs)	1-704-276-7540

Version: 3

Emergency Telephone # 1-704-276-7540 (Mon-Fri: 8:00AM – 5:00PM EST)

SECTION 2. HAZARD(S) IDENTIFICATION

Hazard Classification:

Health Hazards:

Germ Cell Mutagenicity: Carcinogenicity:

Unknown Toxicity:

Acute toxicity, oral:	0.0%
Acute toxicity, dermal:	0.0%
Acute toxicity, inhalation, vapor:	99.3%
Acute toxicity, inhalation, dust or mist:	100.0%

OSHA Hazard(s):

Combustible Dust

Category 1B

Category 1A

Labeling Elements:

Pictograph:



Hazard statements/Signal Word:

H340: DANGER – May cause genetic defects H350: DANGER – May cause cancer EUH018: WARNING – in use may form flammable/explosive vapour-air mixture



=

Safety Data Sheet

135 Joshua Court, Lincolnton, NC 28092 USA

FSS Carbomer		Page: 2/12	
Date: 04/14/2025	Version: 3	Cancels and replaces version: 2	
Precautionary statements: Prevention:	P201: Obtain special instructions before use P202: Do not handle until all safety precautions have been read and understood P233: Keep container tightly closed P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking P240 Ground/bond container and receiving equipment. P281: Use personal protective equipment as required.		
Response:	P308 + P313: IF exposed or concerned: Get medical advice/attention		
Storage:	P405: Store locked up		
Disposal:	P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal		

Other hazards which do not result in classification: None identified

US NFPA 704 (National Fire Protection Association) Hazard Rating System:

Health hazard: Rating 1; Irritation or minor reversible injury possible Flammability: Rating 1; Material must be preheated before ignition will occur Reactivity: Rating 0; Stable Other Hazard Information: None

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Common Chemical Name:	Polyacrylic Acid

Chemical Family: Polymer

Description: Mixture: consisting of the following components. This section describes all components of the mixture

<u>Substance</u> Carbomer Benzene Acrylic Acid	CAS NumbersEC NumbersPercentage by Weight9003-01-4N/A99.5 - 100.00%71-43-2200-753-70.10 - 0.50%79-10-7201-177-90.10 - 0.50%			
Formula:	Not applicable			
SECTION 4. FIRST-AID MEASURES				
General:	If exposed or concerned, in all cases of doubt, seek medical attention.			
Inhalation:	Move to fresh air from exposure area. Get medical attention for any breathing difficulty			
Skin contact:	Rinse with soap and water. Get medical advice if irritation develops.			

This information is presented in good faith but is not warranted as to accuracy of results. Also, freedom from patent infringement is not implied. This information is offered solely for your investigation, verification, and consideration.

=



Safety Data Sheet 135 Joshua Court, Lincolnton, NC 28092 USA

FSS Carbomer		Page: 3/12
Date: 04/14/2025	Version: 3	Cancels and replaces version: 2
Eye contact:	Water (moisture) swells this product into a gelatinous film which may be difficult to remove from the eye using only water. 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 15 minutes. See a physician. Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses	
Ingestion:	Treat symptomatically. Consult	with a physician.
Protection of first-aiders:	No special protection required.	
SECTION 5. FIRE-FIGHTING	MEASURES	
Fire and explosion hazards:	Avoid hose stream or any method	od which will create dust clouds
Extinguishing media:		
Suitable:	Water spray, dry chemicals and large fires.	I foam. Carbon dioxide may be ineffective on
Not suitable:	None known	
Fire fighting:	It is categorized as Dust Explos organic dust air mixture. As with critical proportions and in the pr explode. Dust may be sensitive arcs, sparks, welding torches, c sources. This product has a hig static electricity which may be d source for solvent vapor/air mixt measures for handling finely div solvent, ensure appropriate safe	ed and is considered to be a risk for dust explosion. ion Class ST1. Material can form an explosive a all organic dusts, fine particles suspended in air in resence of an ignition source may ignite and/or to ignition by electrostatic discharge, electrical sigarettes, open flame, or other significant heat h volume resistivity and a propensity to build up lischarged as a spark. A spark can be an ignition tures. As a precaution, implement standard safety <i>r</i> ided organic powders. If you add this product to a e handling practices such as provision for inerting minimize airborne dust. Solid does not readily
Protection for fire-fighters:	Boots, gloves, goggles & self-co	ontained breathing apparatus.
SECTION 6. ACCIDENTAL R		
Personal precautions:	Avoid contact with eyes. Personal Protective Equipment: -Protective goggles	
Environmental precautions:		vaterways. Do not allow material to em. Environmental manager must be informed of all



135 Joshua Court, Lincolnton, NC 28092 USA

FSS Carbomer		Page: 4/12
Date: 04/14/2025	Version: 3	Cancels and replaces version: 2
Methods for cleaning up:		
Recovery:	labeled container for chemical compound or water to avoid rai vacuum cleaner with particle fill spill area with detergent. Materi	and/or disposal. Sweep up and place in a clearly waste. Avoid dust formation. Use wet sweeping sing a dust. Collect powder using special dust ter or carefully sweep into closed container. Wash ial is slippery when wet. Prevent entry into sewers ccordance with all federal, state and local

SECTION 7. HANDLING AND STORAGE

Handling Technical measures: Safe handling advice:	Labeling: Keep out of the reach of children. For industrial use, only as directed. Wash hands after use. Avoid storage near feed or food stuff. Avoid conditions which create dust. Avoid breathing dust. Avoid contact with eyes and prolonged or repeated contact with skin. Ground container and transfer equipment to eliminate static electric sparks. Keep away from heat, sparks and open flame. Avoid drinking, tasting, swallowing or ingesting this product.
Storage Technical measures: Recommended Storage Conditions:	Keep container closed. Store away from incompatible materials. See section 10 for incompatible materials. Store in a dry, well-ventilated place. Keep containers closed when not in use. Maximum storage temperature is < 80°C or < 176°F.
Incompatible products:	Heat may be generated if polymer comes in contact with strong basic materials like ammonia, sodium hydroxide or strong basic amines. Strong bases. Refer to the detailed list of incompatible materials (Section 10 Stability/Reactivity)
Packaging: Packaging materials:	Product may be packaged in normal commercial packaging. Recommended - Polypropylene & High Density Polyethylene

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

Occupational exposure limits:

Chemical Name	Туре	Exposure Limit Values	Source
Benzene	TWA	0.5 ppm	US. ACGIH Threshold Limit Values (02 2012)
Benzene	STEL	2.5 ppm	US. ACGIH Threshold Limit Values (02 2012)
Benzene	REL	0.1 ppm	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
Benzene	STEL	1 ppm	US. NIOSH: Pocket Guide to Chemical Hazards (2010)

This information is presented in good faith but is not warranted as to accuracy of results. Also, freedom from patent infringement is not implied. This information is offered solely for your investigation, verification, and consideration.



135 Joshua Court, LincoInton, NC 28092 USA

FSS Carbomer

Date: 04/14/2025

Version: 3

Page: 5/12 Cancels and replaces version: 2

Occupational exposure limits (Continued):

Benzene	TWA	1 ppm		US. OSHA Specifically Regulated Substances (29 CFR 1910. 1001-1050) (02 2006)
Benzene	STEL	5 ppm		US. OSHA Specifically Regulated Substances (29 CFR 1910. 1001-1050) (02 2006)
Benzene	OSHA-ACT	0.5 ppm		US. OSHA Specifically Regulated Substances (29 CFR 1910. 1001-1050) (02 2006)
Benzene	TWA	10 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
Benzene	Ceiling	25 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
Benzene	MAX. CONC	50 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
Acrylic Acid	TWA	2 ppm		US. ACGIH Threshold Limit Values (02 2012)
Acrylic Acid	REL	2 ppm	6 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)

Other exposure limits:

Chemical Name	Туре	Exposure Limit Values	Source
Polyacrylic Acid	TWA	0.5 mg/m3	

Biological limit values:

Chemical Name	Exposure Limit Values	Source
Benzene (t,t-Muconic acid:	500 µg/g	ACGIH BEI (03 2013)
Sampling time: End of shift.)	(Creatinine in urine)	
Benzene (SPhenylmercapturic	25 μg/g	ACGIH BEI (03 2013)
acid: Sampling time: End of shift.)	(Creatinine in urine)	

Appropriate engineering controls:

To prevent dust explosions employ bonding and grounding for operations capable of generating static electricity. Minimize dust generation and accumulation. Provide adequate ventilation.

Personal Protective Equipment:

Respiratory protection:	Local Exhaust
Hand protection:	Protective gloves made of rubber or neoprene.
Eye protection:	Use tight fitting goggles if dust is generated.
Collective emergency equipment:	Eye fountain.
Skin and Body Protection:	Suitable protective clothing.
Hygiene measures:	Handle in accordance with food industrial hygiene and safety practice.
Measures related to the Environment:	No particular measures.



135 Joshua Court, LincoInton, NC 28092 USA

FSS Carbomer

Date: 04/14/2025

Version: 3

Page: 6/12 Cancels and replaces version: 2

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Physical state: Form: Color:	Solid Powder White
Odor:	Slight acetic
pH (1% Water):	2.5 – 3.0
Relative Density (20°C):	Not determined
Vapor density: Boiling Point: Freezing Point: Melting point:	Not determined Not determined Not determined Not determined
Evaporation rate: Flammability (solids, gas):	Not determined Not determined
Vapor pressure:	Not determined
Bulk density:	< 0.24 g/ml 77°F (25°C)
Dust explosion properties: Minimum ignition energy: Minimum ignition temperature: Volume Resistivity: Percent volatile:	157 - 193 m.b_/s 25 - 50 mJ Approximate 896°F (480°C) 1.84x 10+16 ohm-cm < 2% (Percent by Weight)
Flash point: Oxidizing properties:	Not applicable Non oxidizing material according to EC criteria.
Solubility : In water: In organic solvents:	Material will swell in water Not determined

Not determined

SECTION 10. STABILITY AND REACTIVITY

Stability:	Stable under ordinary conditions of use and storage up to one year then re-test to full product specifications to extend shelf life
Hazardous reactions:	None known
Conditions to avoid:	Static discharge, moisture & heat

This information is presented in good faith but is not warranted as to accuracy of results. Also, freedom from patent infringement is not implied. This information is offered solely for your investigation, verification, and consideration.

Log P:



Safety Data Sheet 135 Joshua Court, Lincolnton, NC 28092 USA

FSS Carbomer		Page: 7/12
Date: 04/14/2025	Version: 3	Cancels and replaces version: 2
Materials to avoid:	No dangerous reaction known w	vith common products.
Hazardous decomposition products	: Thermal decomposition or comb carbon dioxide and other produc	ustion may generate smoke, carbon monoxide cts of incomplete combustion.
SECTION 11. TOXICOLOGICA	L INFORMATION	
Ingestion: Dermal: Ocular: Inhalation:	Not Determined Not Determined Not Determined Not Determined	
Acute toxicity data:		
Oral: Dermal:	Not classified for acute toxicity bandle for	
Inhalation:	polyacrylate dust may cause infla sensitive airways (e.g., asthmatic	studies indicate the inhalation of respirable ammatory changes in the lung. Persons with cs) may react to vapors. Breathing of dust may tion, and shortness of breath. Not classified fo data.
Skin Corrosion/Irritation:	repeated exposure. Contact dern extreme and unusual conditions exposure accompanied by elevat	itions may be aggravated by prolonged or natitis may occur in sensitive individuals under of prolonged and repeated contact, such as hi ted temperature and occlusion by clothing. ne product's hygroscopic properties, abrasion,
Serious Eye Damage/Eye Irritation:	Classification: Not irritating (Read Remarks: Particles in the eyes m Remarks: Not classified as a prin	nay cause irritation and smarting.
Respiratory sensitization:	Not Determined	
Skin sensitization:	Classification: Not a skin sensitiz	er. (Read across) Not a skin sensitizer.
Specific Target Organ Toxicity - Sin Benzene: Acrylic Acid:	gle Exposure: Nose, throat and lung irritant Respiratory tract irritation	
Aspiration Hazard:	Not determined	
Other effects:		isture and may become thick and gelatinous branes of the eye, or upon inhalation into



Safety Data Sheet 135 Joshua Court, Lincolnton, NC 28092 USA

FSS Carbomer		Page: 8/12
Date: 04/14/2025	Version: 3	Cancels and replaces version: 2
Chronic Effects: Carcinogenicity: Product: Benzene:	Not determined IARC 1: Carcinogenic to humans	5
IARC Monographs on the Eval Benzene:	uation of Carcinogenic Risks to Hum Overall evalutation: 1. Carcinoge	
US. National Toxicology Progr Benzene:	am (NTP) Report on Carcinogens: Known to be human carcinogen	
US. OSHA Specifically Regulat Benzene:	ed Substances (29 CFR 1910.1001-10 Cancer	050):
Germ Cell Mutagenicity: Benzene: Acrylic Acid: Benzene: Acrylic Acid:	In vitro mutagenicity testing have Results of vitro mutagenicity test Mutagenic in vivo in both somati Results of in vivo mutagenicity te	ts have been positive c cells and germ cells
Reproductive toxicity:	Not determined	
Specific Target Organ Toxicity	- Repeated Exposure:	
Product:	polyacrylate dust resulted in lung tumors. There were no observed addition, long-term medical mon revealed lung effects such as the respirable dusts should be avoid	ts exposed to a respirable, waterabsorbent sodium g effects such as inflammation, hyperplasia, and d adverse effects at exposures of 0.05 mg/m3. In itoring of potentially exposed workers has not ose observed in the rat. However, the inhalation of led by implementing respiratory protection ommended permissible exposure limit of
Benzene:	abnormalities and adverse blood	formation system
Acrylic Acid:	Prolonged or repeated exposure Unknown: Target Organ(s): Kidn	



135 Joshua Court, LincoInton, NC 28092 USA

FSS Carbomer

Date: 04/14/2025

Version: 3

Page: 9/12 Cancels and replaces version: 2

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity Fish:	
Product:	LC 50 (Bluegill Sunfish, 96 h): 580 mg/l
Benzene:	LC 50 (Bluegill Sunfish, 4 d): 22 mg/l
	LC 50 (Rainbow Trout, 4 d): 5.3 mg/l
	LC 50 (Fathead Minnow, 32 d): > 1.6 mg/l
Acrylic Acid:	LC 50 (Rainbow Trout, 4 d): 27 mg/l
Aquatic Invertebrates:	
Product:	EC 50 (Water flea (Daphnia magna), 48 h): 174 mg/l
Benzene:	EC 50 (Water flea (Daphnia magna), 2 d): 10 mg/l
Acrylic Acid:	EC 50 (Water flea (Daphnia magna), 2 d): 95 mg/l
Toxicity to Aquatic Plants:	
Benzene:	EC 50 (Green algae (Selenastrum capricornutum), 3 d): 100 mg/l
Acrylic Acid:	EC 50 (Green algae (Selenastrum capricornutum), 3 d): 0.13 mg/l
Toxicity to soil dwelling organisms:	Not determined
Sediment toxicity:	Not determined
Toxicity to terrestrial plants:	Not determined
Toxicity to Above-Ground Organism	s: Not determined
Toxicity to microorganisms:	
Benzene:	EC 50 (Bacteria, 1 d): 13 mg/l
Acrylic Acid:	EC 50 (Sludge, 0.1 d): 900 mg/l

Persistence and Degradability Biodegradation:

Benzene:	OECD TG 301 F, 96%, 28 d, Readily biodegradable
Acrylic Acid:	OECD TG 301 D, 80%, 28 d, Readily biodegradable

Bioaccumulative Potential Bioconcentration Factor (BCF): Not determined

Partition Coefficient n-octanol / wate	er (log Kow):
Benzene:	Log Kow: 2.13 (calculated)
Acrylic Acid:	Log Kow: 0.46 (calculated)

Mobility: Other Adverse Effects: Not determined Not determined



135 Joshua Court, Lincolnton, NC 28092 USA

 FSS Carbomer

 Date: 04/14/2025
 Version: 3
 Cancels

Cancels and replaces version: 2

Page: 10/12

SECTION 13. DISPOSAL CONSIDERATIONS

Residues from product

Destruction/Disposal:

Prohibition: Destruction/Disposal:	Do not allow the product to be released into the Environment. Dispose of in accordance with relevant local regulations.
Contaminated packaging	
Decontamination/cleaning:	Cleaning is not required prior to disposal.

Container packaging may exhibit hazards.

Note: Take all necessary precautions when disposing of this product according to local regulations.

SECTION 14. TRANSPORT INFORMATION

Labeling of the Mixture:UN Number:UN 3077UN Proper Shipping Name:Environmentally Hazardous Substance, Solid, N.O.S. [Benzene (INC)])]
Transport Hazard Class(es):Class:9Label(s):9Packing Group:111Marine Pollutant:NoSpecial Precautions for User:None establishedReportable quantity:Benzene 10 lbs	
Transport/Additional Information:	
IMDG Remarks:Not regulated for US DOT Ground Transport in non-bulk containersIATA Remarks:Not regulated	

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: None known.

The above regulatory prescriptions are those valid on the date of publication of this sheet. However, given the possible evolution of transport regulations for hazardous materials and in the event of the MSDS in your possession dating back more than 12 months, it is advisable to check their validity with your sales office.

SECTION 15. REGULATORY INFORMATION

Labeling/Restrictions:

EC regulations:

Benzen is listed in Annex II (List of Substances Prohibited in Cosmetic Products) of Regulation (EC) No 1223/2009 – (EC) 2009/552 – as a constituent of other substances, or in mixtures, in concentrations equal to, or greater than 0.1% by weight



=

Safety Data Sheet

135 Joshua Court, LincoInton, NC 28092 USA

FSS Carbomer			Page: 11/12	
Date: 04/14/2025		Version: 3	Cancels and replaces version: 2	
USA Regulations: Restrictions:			cal(s) known to the state of California to ca itional information can be received upon re	
Canada Regulations: Restrictions:	schec Enviro	dule 1. It is subjected to the onmental Emergency Regi	a Hazard Category (C = combustible) unde e reporting of a release in section 18 of the ulations, 2019 if it meets the minimum s) and is not part of exclusions in 2(2).	۶r
Brazil Regulations:		ene is listed on the List of I n°79, of August 28, 2000	Prohibited Substances according to Resolu	tion
Further regulations				
United Kingdom:	subst Hygie		ant British regulation: control of Regulations Environmental ised annually)	
Korea regulations:	Haza	trial safety and hygiene re- rdous material control regu- prevention regulation:		
Other regulations:				
EINECS inventory status:		Polyacrylic Acid: Benzene: Acrylic Acid:	N/A 200-753-7 201-117-9	
TSCA inventory status: AICS inventory status: Canadian (CEPA DSL) inventory : Japan (MITI list): Korea:	status:	Exempt 9003-01-4 & 71-43-2 &	79-10-7 cid, homopolymer (DSL) & Benzene (DSL) .) ene** & Acrylic Acid	& Acry
China inventory status: Philippines inventory status:		Not Listed: Benzene & A Listed: Polyacrylic Acid		ic acid
*Listed on 2010 INCI Standard Ch **Not listed on Cosmetic-Info data				

**Not listed on Cosmetic-Info database (or) on Restricted List
^Not listed in 2004 CTFA Dictionary – Registered with Personal Care Products Council

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the products described in this sheet. The user's attention is drawn to the possible existence of additional provision which complete these regulations. Please refer to all applicable international, national and local regulations and provisions



135 Joshua Court, Lincolnton, NC 28092 USA

FSS Carbomer

Date: 04/14/2025

Version: 3

Page: 12/12

Cancels and replaces version: 2

SECTION 16. OTHER INFORMATION

Prohibited uses: For specific uses, food industry, ask the manufacturer for more information.

Last Revision Date: 04/14/2025

Preparation Date: 10/08/2020

MSDS summary of changes Revision to INCI in Section 3.

The information given is based on our knowledge of this product, at the time of publication in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than which it was intended. This is not in any way excuse the user from knowing and applying all the regulations governing their activity. It is sole responsibility of the user to take all precautions required in handling the product. The purpose of mandatory regulation mentioned is to help the user to fulfill his obligations regarding the use of products. This information is not exhaustive, this is not exonerate the user from ensuring that legal obligations other than those mentioned, relating to the use and storage.