

Prepared according to Annex II of EC Regulation 1907/2006.

1	Substance/Product Identification
Product Trade Name	CARBOPOL® ULTREZ 21 POLYMER

Company	The Lubrizol Corporation 29400 Lakeland Boulevard Wickliffe, Ohio 44092 Tel: (440) 943-4200
E-mail contact	EUSDS@lubrizol.com
CAS Number	Confidential.
Synonyms	Confidential.
Preparation/Revision Date	03 December 2008
Generic Chemical Name	Polyacrylic acid
Product Type	Base Carbopol-Personal Care
Emergency Phone Number	FOR TRANSPORT EMERGENCY call CHEMTREC: (+1) 703-527-3887 (outside the U.S.), 1-800-424-9300 (in the U.S.)
MSDS No.	26503488-4103322-1128860-102103

Hazards Identification



Product Classification

R36 -- Irritating to eyes.

3	Composition/Information on Ingredients

Hazardous Ingredients

Comp	Percentage (by wt.)	Symbol(s)	Risk Phrase(s)	EU Number
Alcohol ethoxylate	From 1 to 4.9 percent	Xi	R38 R41	Polymer
Cyclohexane	From 0.1 to 0.9 percent	F N Xi	R11 R38 R50/53 R65 R67	203-806-2

4	First Aid Measures
Ingestion	DO NOT INDUCE VOMITING. Get immediate medical attention.
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. If eye irritation persists, get medical attention. Water (moisture) swells this product into a gelatinous film which may be difflicult to remove from the eye using only water.
Skin	Wash with soap and water. Remove contaminated clothing. If skin irritation occurs, get medical attention. 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.		
Additional Information	Note to physician: Treat symptomatically.		
5	Fire Fighting Measures		
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 wich 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.		
	Fire and Explosive Properties		
Min. Explosive Concentration	115 g/m3 (0.115 oz/ft3)		
Min. Ignition Energy	> 0.05 joules		
Volume Resistivity	4.58 x 10+15 ohm-cm		
	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 hear sources. As a precaution, implement standard safety measures for handling finely divided organic powders.		
6			
6 Spill Procedures	precaution, implement standard safety measures for handling finely divided organic powders.		
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Exposure Controls/Personal Protection

Exposure Limits

8

EU			
Comp	CAS No.	Long Term (8 Hours T.W.A.)	Short Term (15 mins.)
Cyclohexane	110-82-7	200 ppm	N/E

UK

Not applicable.

Ireland

Comp	CAS No.	Long Term (8 Hours T.W.A.)	Short Term (15 mins.)
Cyclohexane	110-82-7	100 ppm	300 ppm

India

Not applicable.

Cyprus Not applicable.

	 (s) - Skin exposure (p) - Proposed limit (c) - Ceiling exposure (l) - Recommended exposure limit (u) - Supplier recommended exposure limit (N/E) - None established
Other Exposure Limits	None known.
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.
Hand Protection	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 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	Long sleeve shirt is recommended. Do not wear rings, watches or similar apparel that could entrap the material and cause a skin reaction.

9	Physical and Chemical Properties

Flash Point	Not applicable.
Upper Flammable Limit	Not determined.
Lower Flammable Limit	Not determined.
Autoignition Point	~ 520 °C, ~ 968 °F
Explosion Data	Dust can form explosive mixtures in the air.
Vapour Pressure	Not determined.
рН	2.5 - 3.5 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	Not determined.
Volatile Organic Compound	< 0.6%
Vapour Density	Not determined.
Evaporation Rate	Not determined.
Odour	Mild acrylic
Appearance	White powder.
Viscosity	Not determined.
Odour 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.

10	Stability and Reactivity
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.

11	Toxicological Information
4.2 K.2	

-- ACUTE EXPOSURE --

Eye Irritation	Moderate to strong eye irritant. 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. Prolonged or repeated contact as from clothing wet with the material may cause severe irritation. 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	If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract. Based on data from components and similar materials. Exposure to a dust may be irritating. 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 > 5000 mg/kg. Based on data from components or similar materials.
Dermal Sensitization	Not expected to cause skin sensitization. Based on data from similar materials.
Inhalation Sensitization	No data available to indicate product or components may be respiratory sensitizers.

-- CHRONIC EXPOSURE --

Chronic Toxicity	Adverse lung effects were observed in rats receiving life-long inhalation exposure to respirable polyacrylate dust. Effects included inflammation, hyperplasia, fibrosis, and alveolar abnormalities. Occupational exposure to respirable polyacrylate dusts must be avoided by implementing the recommended respiratory protection measures (See Section 8) and observing the recommended permissible exposure limit of 0.05 mg/m3.
Carcinogenicity	A lifetime (2-year) inhalation study in rats exposed to respirable polyacrylate dust resulted in inflammation and tumors. The tumorigenic response may be a "rat specific" finding and thus not relevant to humans.
Mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
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.
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

-- ENVIRONMENTAL TOXICITY --

Freshwater Fish Toxicity	The acute LC50 is 10 - 100 mg/L based on component data.
Freshwater Invertebrates Toxicity	The acute EC50 is 10 - 100 mg/L based on component data.
Algae Toxicity	Not determined.
Saltwater Fish Toxicity	Not determined.
Saltwater Invertebrates Toxicity	Not determined.
Bacteria Toxicity	Not determined.
Miscellaneous Toxicity	Not determined.
Biodegradation	ENVIRONMENTAL FATE 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 potentially bioconcentrate, based on measured octanol/water partition coefficients.
Soil Mobility	Not determined.
WGK	WGK = 1 according to the Water Hazardous Directive, VwVwS, dated May 17, 1999.
13	Disposal Considerations

14	Transport Information
	This material, if discarded, should be considered a European hazardous waste in accordance with European Law. H4.
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ІСАО/ІАТА	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.
ADR/RID	Not regulated
ADR/RID Hazard ID No.	Not applicable.

Review classification requirements before shipping materials at elevated temperatures.

15	Regulatory Information	
Symbol(s)	×	
Indication of Danger	Irritant	
Precautionary Labels	 R36 Irritating to eyes. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S33 Take precautionary measures against static discharges. S39 Wear eye/face protection. 	
Other Label Information	None.	
Global Chemical Inventories		
USA	All components of this material are on the US TSCA Inventory or are exempt.	
EU	All components are in compliance with the EC Seventh amendment Directive 92 /32/EEC.	
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.	
New Zealand	May require notification before sale under New Zealand regulations.	
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.	
	Product Registrations	

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
Korean Registration Number	LOC filed 5/15/08
U.S. Dept of Agriculture	This product has not been filed with the USDA to support H2 approvals.
NSF Nonfood Compounds Registration	This product has not been filed with the NSF to support H1 or H2 approvals.

-- Other / International --

FDA Appro	val
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Not applicable.

16	Other Information			
HMIS Codes	Health	Fire	Reactivity	
Relevant R Phrases	2* R11 Highly flamm R36 Irritating to ey	es.	0	
	R38 Irritating to sk R41 Risk of seriou R50/53 Very toxic aquatic environment. R65 Harmful: may R67 Vapors may ca	s damage to ey to aquatic org cause lung da	anisms, may cause lon mage if swallowed.	g-term adverse effects in the
Revision Indicators		Section		Changed
	1 Product type.			November 2008
	5 Minimum ignition energy.			November 2008
	9 Odor threshold.			November 2008
	9 Percent volatile.			November 2008
	9 Viscosity.			November 2008
	12 WGK.			

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