

# SAFETY DATA SHEET

## 1. Identification

**Product identifier** Reccocel C-9

**Other means of identification**  
**Product code** BLOW-C9-BG

**Recommended use** Finely ground benzene sufonyl hydrazine mixture in an inert carrier, typically used for closed cell sponge

**Recommended restrictions** None known.

**Manufacturer/Importer/Supplier/Distributor information**  
**Manufacturer**

**Company name** R.E. Carroll, Inc  
**Address** 1570 North Olden Ave  
Trenton, NJ 08638  
United States

**Telephone** 609-695-6211 (7am - 5pm)  
**E-mail** Not available.  
**Emergency phone number** 800-424-9300 (CHEMTREC)

**Supplier** Refer to Manufacturer

## 2. Hazard(s) identification

**Physical hazards** This mixture does not meet the classification criteria according to OSHA HazCom 2012.

**Health hazards** This mixture does not meet the classification criteria according to OSHA HazCom 2012.

**Environmental hazards** This mixture does not meet the classification criteria according to OSHA HazCom 2012.

**OSHA defined hazards** This mixture does not meet the classification criteria according to OSHA HazCom 2012.

### Label elements

**Hazard symbol** None.

**Signal word** None.

**Hazard statement** The mixture does not meet the criteria for classification.

**Precautionary statement**

**Prevention** None required according to OSHA Hazcom 2012.

**Response** None required according to OSHA Hazcom 2012.

**Storage** None required according to OSHA Hazcom 2012.

**Disposal** None required according to OSHA Hazcom 2012.

### Hazard(s) not otherwise classified (HNOC)

No OSHA defined hazard classes.  
Other hazards which do not result in classification: Bulk quantities may self ignite if heated above 150°C. May cause mild skin and eye irritation. May cause respiratory irritation. May cause central nervous system effects. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Repeated or prolonged inhalation of fine dusts may cause an increase in mucous production. Prolonged or repeated overexposure may cause liver and kidney effects.

**Supplemental information** None.

## 3. Composition/information on ingredients

### Mixtures

Chemical name	Common name and synonyms	CAS number	%
Limestone	Natural calcium carbonate	1317-65-3	70 - 80
Benzenesulfonic Acid, 4,4'-oxybis-, Dihydrazide	4,4'-Oxybis(benzenesulfonohydrazide) P,P'-oxybis(benzenesulfonylhydrazide)	80-51-3	20 - 30
Distillates (petroleum), Hydrotreated Heavy Naphthenic	HYDROTREATED HEAVY NAPHTHENIC DISTILLATE (PETROLEUM)	64742-52-5	0.5 - 1.5

#### 4. First-aid measures

<b>Inhalation</b>	Move to fresh air. If breathing is difficult, give oxygen. If breathing stops, provide artificial respiration. Get medical attention if symptoms persist.
<b>Skin contact</b>	Wash off with soap and plenty of water. Get medical attention if irritation develops and persists.
<b>Eye contact</b>	Flush with large amounts of water for 15 minutes. Get medical attention if irritation persists after washing.
<b>Ingestion</b>	Do not induce vomiting. Never give anything by mouth to a victim who is unconscious or is having convulsions. When symptoms persist or in all cases of doubt, seek medical advice.
<b>Most important symptoms/effects, acute and delayed</b>	May cause mild skin and eye irritation. Symptoms may include abrasions, redness and itching. Symptoms may include stinging and tearing. May cause respiratory irritation. Symptoms may include upper respiratory irritation, coughing, and breathing difficulties. May cause central nervous system effects. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
<b>Indication of immediate medical attention and special treatment needed</b>	Treat symptomatically.
<b>General information</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

#### 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Fire fighting equipment/instructions</b>	Ventilate the contaminated area. Move containers from fire area if you can do it without risk. Use water spray to cool unopened containers. Prevent fire extinguishing water from contaminating surface water or the ground water system.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>General fire hazards</b>	Bulk quantities may self ignite if heated above 150°C.
<b>Hazardous combustion products</b>	Carbon oxides. Nitrogen oxides (NO <sub>x</sub> ).

#### 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of dust. Wear a dust mask if dust is generated above exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
<b>Methods and materials for containment and cleaning up</b>	Ventilate the contaminated area. Extinguish all flames in the vicinity. Stop leak if you can do it without risk. Sweep up or vacuum up spillage and collect in suitable container for disposal. Collect dust using a vacuum cleaner equipped with HEPA filter. Prevent entry into waterways, sewer, basements or confined areas.  Never return spills in original containers for re-use. For waste disposal, see section 13 of the SDS. In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.
<b>Environmental precautions</b>	Avoid discharge into drains, water courses or onto the ground.

#### 7. Handling and storage

<b>Precautions for safe handling</b>	Provide appropriate exhaust ventilation at places where dust is formed. Avoid breathing dust. Avoid contact with eyes, skin, and clothing. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Do not empty into drains. Use appropriate container to avoid environmental contamination. Practice good housekeeping.
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**Conditions for safe storage, including any incompatibilities**

Store in original tightly closed container. Keep container tightly closed. Store in a well-ventilated place. Store in a cool, dry place out of direct sunlight. Store away from incompatible materials (see Section 10 of the SDS).

**8. Exposure controls/personal protection**

**Occupational exposure limits**

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

Components	Type	Value	Form
Distillates (petroleum), Hydrotreated Heavy Naphthenic (CAS 64742-52-5)	PEL	5 mg/m3	Mist.
		2000 mg/m3 500 ppm	
Limestone (CAS 1317-65-3)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.

**US. ACGIH Threshold Limit Values**

Components	Type	Value	Form
Benzenesulfonic Acid, 4,4'-oxybis-, Dihydrazide (CAS 80-51-3)	TWA	0.1 mg/m3	Inhalable fraction.

**US. NIOSH: Pocket Guide to Chemical Hazards**

Components	Type	Value	Form
Distillates (petroleum), Hydrotreated Heavy Naphthenic (CAS 64742-52-5)	STEL	10 mg/m3	Mist.
Limestone (CAS 1317-65-3)	TWA	5 mg/m3	Mist.
	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total

**Biological limit values**

No biological exposure limits noted for the ingredient(s).

**Appropriate engineering controls**

Provide adequate general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**

If contact is likely, safety glasses with side shields are recommended. Eye wash fountain and emergency showers are recommended.

**Skin protection**

**Hand protection**

Wear appropriate chemical-resistant gloves. Advice should be sought from glove suppliers.

**Other**

Wear suitable protective clothing.

**Respiratory protection**

Use a NIOSH approved dust respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Advice should be sought from respiratory protection specialists.

**Thermal hazards**

Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations**

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**9. Physical and chemical properties**

**Appearance**

**Physical state**

Solid.

**Form**

Powder.

**Color**

Off-white.

**Odor**

Characteristic.

**Odor threshold**

Not available.

**pH**

Not available.

<b>Melting point/freezing point</b>	Not applicable
<b>Initial boiling point and boiling range</b>	Not available.
<b>Flash point</b>	Not applicable
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not applicable
<b>Flammability limit - upper (%)</b>	Not applicable
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Partly soluble
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	248 - 327.2 °F (120 - 164 °C)
<b>Viscosity</b>	Not available.
<b>Other information</b>	
<b>Specific gravity</b>	2.24

## 10. Stability and reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions. Bulk quantities may self ignite if heated above 150°C.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	Avoid heat, sparks, open flames and other ignition sources. Contact with incompatible materials. Temperatures above 150 °C. Do not use in areas without adequate ventilation.
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	None known, refer to hazardous combustion products in Section 5.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation</b>	May cause irritation to the respiratory system. May cause central nervous system effects.
<b>Skin contact</b>	May be irritating to the skin.
<b>Eye contact</b>	May be irritating to eyes.
<b>Ingestion</b>	May cause irritation of the gastrointestinal tract.
<b>Most important symptoms/effects, acute and delayed</b>	May cause mild skin and eye irritation. Symptoms may include abrasions, redness and itching. Symptoms may include stinging and tearing. May cause respiratory irritation. Symptoms may include upper respiratory irritation, coughing, and breathing difficulties. May cause central nervous system effects. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

### Information on toxicological effects

<b>Acute toxicity</b>	This product is not classified as an acute toxicity hazard. The below product data is the calculated ATE values for this mixture. Individual ingredient component data appears below the product mixture ATE values.
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Product	Species	Test Results
Reccocel C-9		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg
<i>Inhalation</i>		
LC50	Rat	> 5.2 mg/l, 4 hours
<i>Oral</i>		
LD50	Rat	> 4608 mg/kg

Components	Species	Test Results
Benzenesulfonic Acid, 4,4'-oxybis-, Dihydrazide (CAS 80-51-3)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	No data in literature
<i>Inhalation</i>		
LC50	Rat	No data in literature
<i>Oral</i>		
LD50	Rat	2300 mg/kg

Distillates (petroleum), Hydrotreated Heavy Naphthenic (CAS 64742-52-5)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg
<i>Inhalation</i>		
LC50	Rat	> 5.23 mg/l, 4 hours Mist
<i>Oral</i>		
LD50	Rat	> 5000 mg/kg

Limestone (CAS 1317-65-3)		
<b>Acute</b>		
<i>Dermal</i>		
		No data in literature
<i>Inhalation</i>		
LC50		Not data in literature
<i>Oral</i>		
LD50	Rat	6450 mg/kg

\* Estimates for product may be based on additional component data not shown.

<b>Skin corrosion/irritation</b>	May be irritating to the skin.
<b>Serious eye damage/eye irritation</b>	May be irritating to eyes.
<b>Respiratory or skin sensitization</b>	
<b>Respiratory sensitization</b>	This product is not expected to cause respiratory sensitization.
<b>Skin sensitizer</b>	This product is not expected to cause skin sensitization.
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
<b>Carcinogenicity</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
<b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>	
Not listed.	
<b>Reproductive toxicity</b>	This product is not expected to cause reproductive or developmental effects.
<b>Specific target organ toxicity - single exposure</b>	Not classified as a specific target organ toxicity -single exposure.
<b>Specific target organ toxicity - repeated exposure</b>	Not classified as a specific target organ toxicity -repeated exposure.

<b>Aspiration toxicity</b>	Not expected to be an aspiration hazard.
<b>Chronic effects</b>	Prolonged or repeated overexposure may cause liver and kidney effects. Repeated or prolonged inhalation of fine dusts may cause an increase in mucous production.
<b>Further information</b>	This product has no known adverse effect on human health.

## 12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components	Species	Test Results
Benzenesulfonic Acid, 4,4'-oxybis-, Dihydrazide (CAS 80-51-3)		
<b>Aquatic</b>		
<i>Acute</i>		
Algae	EC50	Green Algae ( <i>Pseudokirchneriella subcapitata</i> ) 2.2 mg/l, 72 hours
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> ) 2.9 mg/l, 48 hours
Fish	LC50	Japanese rice fish ( <i>Oryzias latipes</i> ) > 6.6 mg/l, 96 hours
Distillates (petroleum), Hydrotreated Heavy Naphthenic (CAS 64742-52-5)		
<b>Aquatic</b>		
<i>Acute</i>		
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> ) > 10000 mg/l, 48 hours
Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> ) > 100 mg/l, 96 hours
<i>Chronic</i>		
Algae	NOEL	Green Algae ( <i>Pseudokirchneriella subcapitata</i> ) > 100 mg/l, 72 hours
Crustacea	NOEC	Water flea ( <i>Daphnia magna</i> ) 10 mg/l, 21 days
Limestone (CAS 1317-65-3)		
<b>Aquatic</b>		
<i>Acute</i>		
Fish	LC50	Mosquitofish ( <i>Gambusia affinis affinis</i> ) > 57000 mg/l, 96 hours

\* Estimates for product may be based on additional component data not shown.

<b>Persistence and degradability</b>	No data is available on the degradability of this product.
<b>Bioaccumulative potential</b>	No data available.
<b>Mobility in soil</b>	No data available.
<b>Other adverse effects</b>	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

<b>Disposal instructions</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
<b>Local disposal regulations</b>	Dispose in accordance with all applicable regulations.
<b>Hazardous waste code</b>	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Waste from residues / unused products</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## 14. Transport information

<b>DOT</b>	Not regulated as dangerous goods.
<b>IATA</b>	Not regulated as dangerous goods.

**IMDG**

Not regulated as dangerous goods.

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

**15. Regulatory information**

**US federal regulations** All components are on the U.S. EPA TSCA Inventory List.  
This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

**SARA 304 Emergency release notification**

Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories** Immediate Hazard - No  
Delayed Hazard - No  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

**SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous chemical** No

**SARA 313 (TRI reporting)**

Not regulated.

**Other federal regulations****Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

**US state regulations****US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)**

Not listed.

**US. Massachusetts RTK - Substance List**

Distillates (petroleum), Hydrotreated Heavy Naphthenic (CAS 64742-52-5)  
Limestone (CAS 1317-65-3)

**US. New Jersey Worker and Community Right-to-Know Act**

Benzenesulfonic Acid, 4,4'-oxybis-, Dihydrazide (CAS 80-51-3)  
Limestone (CAS 1317-65-3)

**US. Pennsylvania Worker and Community Right-to-Know Law**

Limestone (CAS 1317-65-3)

**US. Rhode Island RTK**

Not regulated.

**US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

## International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

Issue date 04-09-2015

Version # 01

### List of abbreviations

ACGIH: American Conference of Governmental Industrial Hygienists  
CAS: Chemical Abstract Services  
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act  
DOT: Department of Transportation  
EC: Effective Concentration  
HMIS: Hazardous Materials Identification System  
HSDB: Hazardous Substances Data Bank  
IARC: International Agency for Research on Cancer  
IATA: International Air Transport Association  
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
ICAO: International Civil Aviation Organisation  
IMDG: International Maritime Dangerous Goods  
LC: Lethal Concentration  
LD: Lethal Dose  
MARPOL: Marine Pollution  
NFPA: National Fire Protection Association  
NIOSH: National Institute for Occupational Safety and Health  
NOEC: No Observable Effect Concentration  
NTP: National Toxicology Program  
OECD: Organisation for Economic Co operation and Development  
OEL: National Occupational Exposure Limits  
OSHA: Occupational Safety and Health Administration  
PPE: Personal Protective Equipment  
RCRA: Resource Conservation and Recovery Act  
RQ: Reportable Quantity  
RTECS: Registry of Toxic Effects of Chemical Substances  
RTK: Right to Know  
SARA: Superfund Amendments and Reauthorization Act  
SDS: Safety Data Sheet  
STEL: Short Term Exposure Limit  
TSCA: Toxic Substances Control Act  
TWA: Time Weighted Average  
VOC: Volatile Organic Compounds  
WEL: Workplace Exposure Limit

**Disclaimer**

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**Disclaimer**

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**Bibliography**

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