



Post-it® Fax Note 7871

DATE	2/26	# of pages	10
To	MANUSKOW		
From	ED TASSI		
Co./Dept.	CAT TECH		
Phone #			
Fax #	804 966-5081		

05/20/2005

Attn.
Kari
Sweezey

Material:

1 Identification of substance

Product details

Trade name: **FCC SuRCA™ GYR12 PLUS**

Article number: 5133519

Manufacturer/Supplier:
 DAVISON CATALYSTS
 W.R. Grace & CO.-CONN
 7500 Grace Dr
 Columbia, MD 21044

Information department: Health and Safety (9 AM to 5 PM-EST) 1-410-531-4764

Emergency information:

Transportation Emergency (24 hr) Chemtrec 1-800-424-9300
 Other Emergencies (24 hr) 1-410-531-4000

2 Data on components

CAS No. &	List of Components	
1332-58-7	natural aluminosilicate (Kaolin)	
1318-02-1	zeolite (crystalline aluminosilicate)	
1344-28-1	aluminum oxide (non-fibrous)	
7631-86-0	amorphous silicon dioxide, chemically prepared	
1312-01-8	rare earth oxides	
14808-60-7	quartz (SiO2)	
	Proprietary 60528	T: R 25-36/37/38

Additional information:

The EPA has designated that non-fibrous forms of aluminum oxide are not a toxic chemical, under Section 313 of SARA
 For the wording of the component risk phrases refer to section 16.

3 Hazards identification

Information pertaining to particular dangers for man and environment:

The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the European Union" in the latest valid version.

Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

NFPA ratings (scale 0 - 4)



Health = 1
 Fire = 0
 Reactivity = 0

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HMS-ratings (scale 0 - 4)

HEALTH	1	Health = 1
FIRE	0	Fire = 0
REACTIVITY	0	Reactivity = 0

Additional information:

This product contains less than 1 % quartz, which is part of a natural raw material. However, quartz has been recently classified by IARC (International Agency for Research on Cancer) as carcinogenic to humans by inhalation (Group I). Furthermore, quartz can cause silicosis and other lung diseases on prolonged exposure. It is not expected that the operator will be exposed to free respirable quartz particles in excess of the limits allowed by the worker protection regulations. Nevertheless, the user is responsible for controlling the working environment according to local regulations, e.g. In the UK: COSHH Regulations.

4 First aid measures

After inhalation: Supply fresh air, consult doctor in case of complaints.

After skin contact:
Generally the product does not irritate the skin.
Immediately rinse with water.
If skin irritation occurs, consult a doctor.

After eye contact:
Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. If symptoms occur, consult a doctor.

After swallowing:
If large amounts are swallowed, Wash mouth out with water. Get medical aid if irritation or symptoms occur.

5 Fire fighting measures

Suitable extinguishing agents:
CO2, extinguishing powder or water spray. Fight larger fire with alcohol resistant foam.
Use fire fighting measures that suit the environment.

Protective equipment: Wear protective equipment

Additional information
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

Person-related safety precautions:
Avoid formation of dust.
Wear protective clothing

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Measures for environmental protection:

Do not allow to enter into sewers, surface water and/or groundwater.

Measures for cleaning/collecting:

Pick up mechanically.

Use appropriate industrial vacuum cleaners or central vacuum systems for dust removal.

Dispose of the collected material according to regulations.

Additional information:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

Handling:

Information for safe handling: Prevent formation of dust.

Information about protection against explosions and fires: The product is not flammable.

Storage:

Information about storage in one common storage facility: Store away from foodstuffs.

Further information about storage conditions: Keep receptacle tightly sealed.

Class according to regulation on flammable liquids: None Applicable

8 Exposure controls and personal protection

Components with limit values that require monitoring at the workplace:

1332-58-7 natural aluminosilicate (Kaolin)

PEL	15 ^{**} ; 5 ^{**} mg/m ³ OSHA TWA *Total dust **Respirable fraction
RFL	10 ^{**} ; 5 ^{**} mg/m ³ NIOSH TWA *Total dust **Respirable fraction
TIV	2 [*] mg/m ³ ACGIH TWA *Respirable fraction

1318-02-1 zeolite (crystalline aluminosilicate)

PEL	Short-term value: 24 A (bis 01.09.05); 12 A mg/m ³ Long-term value: 15 ^{**} 5 ^{**} mg/m ³
TLV	OSHA TWA Total Dust* Respirable fraction** 10 [*] 3 ^{**} mg/m ³ ACGIH TWA Total Dust* Respirable fraction**

1344-28-1 aluminum oxide (non-fibrous)

PEL	15 ^{**} ; 5 ^{**} mg/m ³ OSHA TWA *Total dust **Respirable fraction
TLV	10 mg/m ³ ACGIH TWA (e)

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7631-86-9 amorphous silicon dioxide, chemically prepared

PEL 80/1% SiO₂ mg/m³
 OSHA TWA for amorphous silica
 REL 6 mg/m³
 NIOSH TWA
 TLV 10* 5** mg/m³
 ACGIH TWA *Total Dust **Respirable fraction

1312-81-8 rare earth oxides

PEL 18* 5** mg/m³
 OSHA TWA Total Dust* Respirable fraction**
 TLV 10* 3** mg/m³
 ACGIH TWA Total Dust* Respirable fraction**

14808-60-7 quartz (SiO₂)

PEL 30** 10 mg/m³
 OSHA TWA 1/2 (%SiO₂+2) Total Dust, **Respirable
 REL 0.05* mg/m³
 NIOSH TWA *Respirable dust
 TLV 0.1 mg/m³
 ACGIH TWA

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PEL 15* 5** mg/m³
 OSHA TWA *Total **Respirable as Nuisance particle
 TLV 10* 3** mg/m³
 ACGIH TWA *Total **Respirable as Nuisance particle

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Breathing equipment:

If exposure limit is exceeded, a suitable respiratory protective device is recommended.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Eye protection:



Safety glasses

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Body protection: Protective work clothing

9 Physical and chemical properties

General Information

Form: Powder
 Color: Beige
 Odor: Odorless

Change in condition
 Melting point/Melting range: Undetermined.

Flash point: Not applicable.

Auto igniting: Product is not self-igniting.

Danger of explosion: Product does not present an explosion hazard.

Density at 20°C (68°F): 40 - 63 lbs/ft³

Solubility in / Miscibility with
 Water: Insoluble.

pH-value at 20°C (68°F): 4-8

10 Stability and reactivity

Thermal decomposition / conditions to be avoided:
 No decomposition if used according to specifications.

Dangerous reactions: No dangerous reactions known.

Dangerous products of decomposition: No dangerous decomposition products known.

11 Toxicology information

Acute toxicity:

LD/LC50 values that are relevant for classification:

1318-02-1 zeolite (crystalline aluminosilicate)

Oral	LD50	> 5110 mg/kg (rat) Organization for Economic Cooperation and Development 401
Dermal	LD50	> 2000 mg/kg (rabbit)
Inhalative	LC50 (1 h)	> 18.3 mg/l (rat)

1344-28-1 aluminum oxide (non-fibrous)

Oral	LD50	> 5000 mg/kg (rat)
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7631-86-9 amorphous silicon dioxide, chemically prepared

Oral	LD50	10000 mg/kg (rat)
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Dermal	LD50	> 5000 mg/kg (rabbit) (OECD) 402
Inhalative	LC50	> 0.130 mg/l/14h (rat)
1312-81-8 rare earth oxides		
Oral	LD50	9968 mg/kg (rat) Nd2O3 < 1000 mg/kg CeO2 < 1000 mg/kg Pr6O11 < 2500 mg/kg (Toxicology and Applied Pharmacology 5, 760 ff; Dangerous Properties of Industrial Materials, 7th Edition, Vol. II)
Proprietary 60526		
Dermal	LD50	4450 mg/kg (rabbit)

Primary irritant effect:

on the skin: May cause irritation with dryness and abrasion.

in the eye: May cause abrasion, redness and pain.

Sensitization: Sensitizing effect through inhalation is possible with prolonged exposure.

Subacute to chronic toxicity:

Amorphous silicon dioxide, chemically prepared:

No negative effects were determined during tests for chronic oral toxicity, carcinogenicity, teratogenicity and fertility. No irreversible changes and no symptoms of silicosis were determined during tests for chronic inhalative toxicity.

Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12 Ecology information

Information about elimination (persistence and degradability):

Other information:

By the insolubility in water there is a separation at every filtration and sedimentation process. The product is chemically and biologically inert.

Ecotoxicological effects:

Aquatic toxicity:

Fish toxicity	
1318-02-1 zeolite (crystalline aluminosilicate)	
LC50 (96 h)	1800 mg/l (Brachydanio rerio) Organization for Economic Cooperation and Development 203
7631-86-9 amorphous silicon dioxide, chemically prepared	
LC50 (96 h)	> 10000 mg/l (Brachydanio rerio) OECD 203

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Water flea toxicity

1318-02-1 zeolite (crystalline aluminosilicate)

LC50 (24 h) 2808 mg/l (Daphnia magna)
Organization for Economic Cooperation and Development 202

7631-86-9 amorphous silicon dioxide, chemically prepared

EC50 (24 h) > 1000 mg/l (Daphnia magna)
OECD 202

Algae toxicity

1318-02-1 zeolite (crystalline aluminosilicate)

NOEC (96 h) 10 mg/l (Scenedesmus subspicatus)
Organization for Economic Cooperation and Development 201

Bacterial toxicity

1318-02-1 zeolite (crystalline aluminosilicate)

- (Pseudomonas putida)

General notes: Generally not hazardous for water

13 Disposal considerations

Product:

Recommendation:

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14 Transport information

Transport/Additional information:

Not regulated as hazardous goods by DOT, ADR, IMCO, or IATA.

15 Regulations

Sara

Section 305 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

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TSCA (Toxic Substances Control Act):

Zeolites are considered for TSCA purposes to be mixtures of the substances used to manufacture them.

All ingredients are listed.

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Proposition 65

Chemicals known to cause cancer:

14808-60-7 quartz (SiO2)

Chemicals known to cause reproductive toxicity:

None of the ingredients are listed.

Carcinogenicity categories

EPA (Environmental Protection Agency)

None of the ingredients are listed.

IARC (International Agency for Research on Cancer)

1318-02-1	zeolite (crystalline aluminosilicate)	3
7631-86-9	amorphous silicon dioxide, chemically prepared	3
14808-60-7	quartz (SiO2)	1

NTP (National Toxicology Program)

14808-60-7	quartz (SiO2)	K
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TLV (Threshold Limit Value established by ACGIH)

1332-58-7	natural aluminosilicate (Kaolin)	A4
1344-28-1	aluminum oxide (non-fibrous)	A4
14808-60-7	quartz (SiO2)	A2

MAK (German Maximum Workplace Concentration)

1344-28-1	aluminum oxide (non-fibrous)	2
7631-86-9	amorphous silicon dioxide, chemically prepared	Ja
14808-60-7	quartz (SiO2)	1

NIOSH-Ca (National Institute for Occupational Safety and Health)

14808-60-7 quartz (SiO2)

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients are listed.

Canadian DSL

All ingredients are listed.

Canadian NDSL

None of the ingredients are listed.

Japan ENCS

All ingredients are listed.

Korea ECL

All ingredients are listed.

Philippines: PICCS

All ingredients are listed.

Australia: AICS

All ingredients are listed.

European EINECS

All ingredients are listed.

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Product related hazard information:

Observe the general safety regulations when handling chemicals.
The product is not subject to identification regulations according to directives on hazardous materials.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Component Hazard Symbols: Xn Harmful

Component Risk Phrases

25 Toxic if swallowed.

36/37/38 Irritating to eyes, respiratory system and skin.

Department issuing MSDS: GRACE Davison Safety & Health Department

Contact:

DAVISON CATALYSTS
SALES OFFICES

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* Data compared to the previous version altered.

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