



POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

PROCADD GREEN

Version Number 1.1
Revision Date 05/16/2006

Page 1 of 8
Print Date 11/18/2011

1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION
33587 Walker Road, Avon Lake, OH 44012

Telephone : Product Stewardship (770) 271-5902
Emergency telephone number : **CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).**

Product name : PROCADD GREEN
Product code : CC10067878
Chemical Name : Mixture
CAS-No. : Mixture
Product Use : Industrial Applications

2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

Components	CAS-No.	Weight %
Molybdate orange (Lead chromate pigment)	12656-85-8	0.1 - 1
Quartz	14808-60-7	0.1 - 1
Titanium dioxide	13463-67-7	1 - 5
Cadmium zinc sulfide ((Cd,Zn)S)	12442-27-2	5 - 10
Barium sulfate	7727-43-7	10 - 30
Calcium carbonate	1317-65-3	10 - 30

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

This mixture has not been evaluated as a whole. Information provided on the health effects of this product is based on individual components. All ingredients are bound and potential for hazardous exposure as shipped is minimal. However, some vapors may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure.

POTENTIAL HEALTH EFFECTS

Routes of Exposure: : Inhalation, Ingestion, Skin contact

Acute exposure

Inhalation : Resin particles, like other inert materials, can be mechanically irritating.
Ingestion : May be harmful if swallowed.
Eyes : Resin particles, like other inert materials, are mechanically irritating to eyes.
Skin : Experience shows no unusual dermatitis hazard from routine handling.

POLYONE CORPORATION**MATERIAL SAFETY DATA SHEET****PROCADD GREEN**Version Number 1.1
Revision Date 05/16/2006Page 2 of 8
Print Date 11/18/2011**Chronic exposure** : Refer to Section 11 for Toxicological Information.**Medical Conditions** : None known.**Aggravated by Exposure:****4. FIRST AID MEASURES**

- Inhalation** : Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. When symptoms persist or in all cases of doubt seek medical advice.
- Ingestion** : Do not induce vomiting without medical advice. When symptoms persist or in all cases of doubt seek medical advice.
- Eyes** : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, seek medical attention.
- Skin** : Wash off with soap and plenty of water. If skin irritation persists seek medical attention.

5. FIRE-FIGHTING MEASURES

- Flash point** : Not applicable
- Flammable Limits**
- Upper explosion limit** : Not applicable
 - Lower explosion limit** : Not applicable
- Autoignition temperature** : Not applicable
- Suitable extinguishing media** : Carbon dioxide blanket, water spray, dry powder, foamnone.
- Special Fire Fighting Procedures** : Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants.
- Unusual Fire/Explosion Hazards** : Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), other hazardous materials, and smoke are all possible.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Wear appropriate personal protection during cleanup, such as impervious gloves, boots and coveralls.
- Environmental precautions** : Should not be released into the environment. The product should not be allowed to enter drains, water courses or the soil.
- Methods for cleaning up** : Clean up promptly by sweeping or vacuum. Package all material in plastic, cardboard or metal containers for disposal. Refer to Section 13 of this MSDS for proper disposal methods.

7. HANDLING AND STORAGE

POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

PROCADD GREEN

Version Number 1.1
Revision Date 05/16/2006

Page 3 of 8
Print Date 11/18/2011

- Handling : Take measures to prevent the build up of electrostatic charge. Heat only in areas with appropriate exhaust ventilation.
- Storage : Keep containers dry and tightly closed to avoid moisture absorption and contamination. Keep in a dry, cool place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Respiratory protection : No personal respiratory protective equipment normally required.
- Eye/Face Protection : Safety glasses with side-shields.
- Hand protection : Protective gloves.
- Skin and body protection : Long sleeved clothing.
- Additional Protective Measures : Safety shoes.
- General Hygiene Considerations : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
- Engineering measures : Heat only in areas with appropriate exhaust ventilation. Provide appropriate exhaust ventilation at machinery.

Exposure limit(s)

POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

PROCADD GREEN

Version Number 1.1
Revision Date 05/16/2006

Page 4 of 8
Print Date 11/18/2011

Components	Value	Exposure time	Exposure type	List:
Barium sulfate	10 mg/m3	Time Weighted Average (TWA):	Total dust.	ACGIH
	5 mg/m3	PEL:	Respirable fraction.	OSHA Z1
	15 mg/m3	PEL:	Total dust.	OSHA Z1
Cadmium zinc sulfide ((Cd,Zn)S)	0.005 mg/m3	Time Weighted Average (TWA):	as Cd	OSHA
	0.01 mg/m3	Time Weighted Average (TWA):	as Cd	ACGIH
	0.002 mg/m3	Time Weighted Average (TWA):	Respirable fraction. as Cd	ACGIH
	0.002 mg/m3	Time Weighted Average (TWA):	Respirable dust. as Cd	MX OEL
	0.01 mg/m3	Time Weighted Average (TWA):	Total dust. as Cd	MX OEL
	Calcium carbonate	5 mg/m3	PEL:	Respirable fraction.
15 mg/m3		PEL:	Total dust.	OSHA Z1
10 mg/m3		Time Weighted Average (TWA):		MX OEL
20 mg/m3		Short Term Exposure Limit (STEL):		MX OEL
Molybdate orange (Lead chromate pigment)	0.05 mg/m3	Time Weighted Average (TWA):		OSHA
	0.03 mg/m3	OSHA Action level:		OSHA
	0.1 mg/m3	Ceiling Limit Value:		OSHA Z2
	0.01 mg/m3	Time Weighted Average (TWA):	as Cr	ACGIH
	0.05 mg/m3	Time Weighted Average (TWA):	as Pb	ACGIH
	1 mg/m3	PEL:	as Cr	OSHA Z1
	10 mg/m3	Time Weighted Average (TWA):	Inhalable fraction. as Mo	ACGIH
	3 mg/m3	Time Weighted Average (TWA):	Respirable fraction. as Mo	ACGIH
	15 mg/m3	PEL:	Total dust. as Mo	OSHA Z1
	10 mg/m3	Time Weighted Average (TWA):	as Mo	MX OEL
20 mg/m3	Short Term Exposure Limit (STEL):	as Mo	MX OEL	
Quartz	0.05 mg/m3	Time Weighted Average (TWA):	Respirable fraction.	ACGIH
	5 mg/m3	PEL:	Respirable fraction.	OSHA Z1
	15 mg/m3	PEL:	Total dust.	OSHA Z1
	0.1 mg/m3	Time Weighted Average (TWA):	Respirable.	Z3
	0.3 mg/m3	Time Weighted Average (TWA):	Total dust.	Z3

POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

PROCADD GREEN

Version Number 1.1
Revision Date 05/16/2006

Page 5 of 8
Print Date 11/18/2011

	0.1 mg/m3	Time Weighted Average (TWA):		MX OEL
Titanium dioxide	10 mg/m3	Time Weighted Average (TWA):		ACGIH
	15 mg/m3	PEL:	Total dust.	OSHA Z1
	20 mg/m3	Short Term Exposure Limit (STEL):	as Ti	MX OEL

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: Solid	Evaporation rate	: Not applicable
Appearance	: Pellets	Specific Gravity:	: Not determined
Color	: GREEN	Bulk density	: Not established
Odor	: Very faint	Vapor pressure	: Not applicable
Melting point/range	: Not determined	Vapour density	: Not applicable
Boiling Point:	: Not applicable	pH	: Not applicable
Water solubility	: Insoluble		

10. STABILITY AND REACTIVITY

Stability	: Stable.
Hazardous Polymerization	: Will not occur.
Conditions to avoid	: Keep away from oxidizing agents and open flame. To avoid thermal decomposition, do not overheat.
Incompatible Materials	: Incompatible with strong acids and oxidizing agents.
Hazardous decomposition products	: Carbon dioxide (CO ₂), carbon monoxide (CO), oxides of nitrogen (NO _x), other hazardous materials, and smoke are all possible.

11. TOXICOLOGICAL INFORMATION

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

Toxicity Overview

This product contains the following components which in their pure form have the following characteristics:

CAS-No.	Chemical Name	Effect	Target Organ
12656-85-8	Molybdate orange (Lead chromate pigment)	Irritant	Eyes, Skin.
		Systemic effects	central nervous system (CNS), reproductive system.
14808-60-7	Quartz	Systemic effects	Eyes, Respiratory system.
13463-67-7	Titanium dioxide	Systemic effects	Respiratory system.
12442-27-2	Cadmium zinc sulfide ((Cd,Zn)S)	Highly Toxic	Refer to LC50 / LD50 Data on MSDS..
7727-43-7	Barium sulfate	Irritant	Respiratory system.

POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET

PROCADD GREEN

Version Number 1.1
Revision Date 05/16/2006

Page 6 of 8
Print Date 11/18/2011

		Systemic effects	Eyes, Respiratory system.
1317-65-3	Calcium carbonate	Irritant	Eyes, Skin.
		Systemic effects	Eyes, Skin, Respiratory system.

Carcinogenicity

This product contains the following components which, in their pure form, have the following carcinogenicity data:

CAS-No.	Chemical Name	OSHA	IARC	NTP
14808-60-7	Quartz	no	1	no
12442-27-2	Cadmium zinc sulfide ((Cd,Zn)S)	yes	1	no

IARC Carcinogen Classifications:

- 1 - The component is carcinogenic to humans.
- 2A - The component is probably carcinogenic to humans.
- 2B - The component is possibly carcinogenic to humans.

NTP Carcinogen Classifications:

- 1 - The component is known to be a human carcinogen.
- 2 - The component is reasonably anticipated to be a human carcinogen.

Additional Health Hazard Information:

Molybdate orange (Lead chromate pigment) 12656-85-8 Systemic effects include neurotoxic, teratogenic, fetotoxic and reproductive with abdominal pain, anemia, pallor, decreased hand grip strength with characteristic "wrist drop".

Additional Health Hazard Information:

Quartz 14808-60-7 This material in its free releasable form may cause respiratory tract irritation. Long term exposure may cause coughing, chest pain, diminished chest expansion and possibly silicosis which is a scarring of the lungs.

Additional Health Hazard Information:

Cadmium zinc sulfide ((Cd,Zn)S) 12442-27-2 Can produce rapid and sometimes fatal pulmonary edema, chronic absorption leads to liver and kidney damage.

12. ECOLOGICAL INFORMATION

- Persistence and degradability : Not readily biodegradable.
- Environmental Toxicity : Chemicals are not readily available as they are bound within the polymer matrix.
- Bioaccumulation Potential : Chemicals are not readily available as they are bound within the polymer matrix.
- Additional advice : No data available

13. DISPOSAL CONSIDERATIONS

POLYONE CORPORATION**MATERIAL SAFETY DATA SHEET****PROCADD GREEN**Version Number 1.1
Revision Date 05/16/2006Page 7 of 8
Print Date 11/18/2011

Product : Like most thermoplastic plastics the product can be recycled. Where possible recycling is preferred to disposal or incineration. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.

Contaminated packaging : Recycling is preferred when possible. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.

14. TRANSPORT INFORMATION

U.S. DOT Classification : Not regulated for transportation.

ICAO/IATA (air) : Refer to specific regulation.

IMO / IMDG (maritime) : Refer to specific regulation.

15. REGULATORY INFORMATION

US Regulations:

OSHA Status : Classified as hazardous based on components.

TSCA Status : All components of this product are listed on or exempt from the TSCA Inventory.

US. EPA CERCLA Hazardous Substances (40 CFR 302)

Not applicable

California Proposition 65 : WARNING! This product contains a chemical known to the State of California to cause cancer., WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

SARA Title III Section 302 Extremely Hazardous Substance
Not applicable

SARA Title III Section 313 Toxic Chemicals:

Chemical Name	CAS-No.	Weight %
CADMIUM COMPOUNDSZINC COMPOUNDS	12442-27-2	5.00 - 10.00

POLYONE CORPORATION**MATERIAL SAFETY DATA SHEET****PROCADD GREEN**Version Number 1.1
Revision Date 05/16/2006Page 8 of 8
Print Date 11/18/2011

Chemical Name	CAS-No.	Weight %
CHROMIUM VI COMPOUNDS LEAD COMPOUNDS, INORGANIC LEAD COMPOUNDS	12656-85-8	0.10 - 1.00

Canadian Regulations:

National Pollutant Release Inventory (NPRI)

Chemical Name	CAS-No.	Weight %	NPRI ID#
Cadmium zinc sulfide ((Cd,Zn)S)	12442-27-2	5.00 - 10.00	233
		5.00 - 10.00	231
Molybdate orange (Lead chromate pigment)	12656-85-8	0.10 - 1.00	235
		0.10 - 1.00	236
Phthalocyanine green	1328-53-6	1.00 - 5.00	71

WHMIS Classification : D2A

DSL : All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt.

National Inventories:

Australia AICS : Listed
China IECS : Not determined
Europe EINECS : Not determined
Japan ENCS : Not determined
Korea KECI : Not determined
Philippines PICCS : Not determined**16. OTHER INFORMATION**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material when used in combination with any other materials and/or in any particular process or processing conditions.