Material Safety Data Sheet



Date of issue	1 May 2013
Version	19

1. Product and company identification

Product name	: ACRI-SHIELD GLOSS LIGHT BASE
Code	: PP619
Supplier	: PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272
Emergency telephone number	: (412) 434-4515 (U.S.) (514) 645-1320 (Canada) 01-800-00-21-400 (Mexico)
Technical Phone Number	: 1-800-441-9695 (8:00 am to 5:00 pm EST)

2. Hazards ide	entification
Emergency overview	: WARNING!
	CAUSES RESPIRATORY TRACT AND EYE IRRITATION. MAY BE HARMFUL IF INHALED OR SWALLOWED. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE.
	Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.
Potential acute health eff	ects
Inhalation	: May be harmful if inhaled. Irritating to respiratory system. Can irritate eyes, nose, mouth and throat.
Ingestion	: May be harmful if swallowed.
Skin Eyes	 May cause skin dryness and irritation. Irritating to eyes.
Over-exposure signs/syn	nptoms
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Ingestion	: No specific data.
Skin	: Adverse symptoms may include the following: irritation dryness cracking
Eyes	: Adverse symptoms may include the following: pain or irritation watering redness
Medical conditions aggravated by over- exposure	: Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

This Material Safety Data Sheet has been prepared in accordance with Canada's Workplace Hazardous Materials Information System (WHMIS) and the OSHA Hazard Communication Standard (29 CFR 1910.1200). See toxicological information (Section 11)



3. Composition/information on ingredients

<u>Name</u>

Manium dioxide ethanediol silicon dioxide aluminium hydroxide CAS number%13463-67-77 - 13107-21-11 - 57631-86-91 - 521645-51-20.5 - 1.5

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Material Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

Eye contact	 Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
Skin contact	 Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Inhalation	 Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Ingestion	: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
Notes to physician	: No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. Fire-fighting measures

Flammability of the product	: In a fire or if heated, a pressure increase will occur and the container may burst.
Extinguishing media	
Suitable	: Use an extinguishing agent suitable for the surrounding fire.
Not suitable	: None known.
Special exposure hazards	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Hazardous combustion products	: Decomposition products may include the following materials: carbon oxides metal oxide/oxides
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Personal precautions	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).



6. Accidental release measures

Large spill	: Stop leak if without risk. Move containers from spill area. Approach release from
	upwind. Prevent entry into sewers, water courses, basements or confined areas.
	Wash spillages into an effluent treatment plant or proceed as follows. Contain and
	collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite
	or diatomaceous earth and place in container for disposal according to local
	regulations (see Section 13). Dispose of via a licensed waste disposal contractor.
	Contaminated absorbent material may pose the same hazard as the spilled product.
	Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate
	waste disposal container. Dispose of via a licensed waste disposal contractor.

7. Handling and storage

Handling

: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Do not swallow. Do not get in eyes or on skin or clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. If this material is part of a multiple component system, read the Material Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.

Storage

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Do not store below the following temperature: 32F / 0C.

8. Exposure controls/personal protection

Name	Result	ACGIH	OSHA	Ontario	Mexico	IPEL
Manium dioxide	TWA	10 mg/m ³	15 mg/m³ TD	10 mg/m³ TD	10 mg/m³ (as Ti)	Not established
	STEL	Not established	Not established	Not established	20 mg/m³ (as Ti)	Not established
ethanediol	STEL	100 mg/m ³ C	Not established	100 mg/m ³ C	100 mg/m ³ C	Not established
silicon dioxide	TWA	Not established	Not established	Not established	10 mg/m³ 3 mg/m³ R	Not established
aluminium hydroxide	TWA	1 mg/m ³	Not established	Not established	2 mg/m ³	Not established

Key to abbreviations

= Acceptable Maximum Peak

ACGIH = American Conference of Governmental Industrial Hygienists.

- С = Ceiling Limit F
 - = Fume

IPEL = Internal Permissible Exposure Limit

- OSHA = Occupational Safety and Health Administration. = Respirable
- R Ζ
 - = OSHA 29CFR 1910.1200 Subpart Z Toxic and Hazardous Substances

Consult local authorities for acceptable exposure limits.

- = Potential skin absorption
- SR = Respiratory sensitization SS
 - = Skin sensitization

S

- STEL = Short term Exposure limit values
- TD = Total dust
- TLV = Threshold Limit Value
- TWA = Time Weighted Average



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8. Exposure controls/personal protection

Recommended monitoring procedures	nosphere or biologi ventilation or other btective equipment. ference to national	s ingredients with exposure limits, personal, workplace cal monitoring may be required to determine the effectiveness of control measures and/or the necessity to use respiratory Reference should be made to appropriate monitoring standards. guidance documents for methods for the determination of s will also be required.
Engineering measures	por or mist, use pro	e ventilation. If user operations generate dust, fumes, gas, cess enclosures, local exhaust ventilation or other engineering er exposure to airborne contaminants below any recommended
Hygiene measures	ting, smoking and u propriate technique ash contaminated c	s and face thoroughly after handling chemical products, before sing the lavatory and at the end of the working period. s should be used to remove potentially contaminated clothing. othing before reusing. Ensure that eyewash stations and safety he workstation location.
Personal protection		
Eyes	fety glasses with sid	
Hands	rn at all times wher cessary. Considerin ring use that the glo ted that the time to we manufacturers.	pervious gloves complying with an approved standard should be handling chemical products if a risk assessment indicates this is ing the parameters specified by the glove manufacturer, check oves are still retaining their protective properties. It should be breakthrough for any glove material may be different for different In the case of mixtures, consisting of several substances, the gloves cannot be accurately estimated.
Respiratory	propriate, certified r mplying with an app spirator selection m	to concentrations above the exposure limit, they must use espirators. Use a properly fitted, air-purifying or air-fed respirator proved standard if a risk assessment indicates this is necessary. Just be based on known or anticipated exposure levels, the t and the safe working limits of the selected respirator.
Skin		uipment for the body should be selected based on the task he risks involved and should be approved by a specialist before
Environmental exposure controls	ey comply with the r ses, fume scrubbers	ation or work process equipment should be checked to ensure equirements of environmental protection legislation. In some s, filters or engineering modifications to the process equipment duce emissions to acceptable levels.

9. Physical and chemical properties

Physical state	:	Liquid.
Flash point	1	Closed cup: >93.33°C (>200°F)
Color	:	Not available.
Odor	:	Not available.
рН	:	Not available.
Boiling/condensation point	:	>37.78°C (>100°F)
Melting/freezing point	:	Not available.
Specific gravity	:	1.17
Density(Ibs / gal)	:	9.76
Vapor pressure	1	2.3 kPa (17.2 mm Hg) [room temperature]
Vapor density	1	Not available.
Volatility	:	66% (v/v), 56.41% (w/w)
Evaporation rate	:	0.33 (butyl acetate = 1)
Partition coefficient: n- octanol/water	:	Not available.
% Solid. (w/w)	1	43.59

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10 . Stability and reactivity

Stability	: Stable under recommended storage and handling conditions (see Section 7).
Conditions to avoid	: No specific data.
Materials to avoid	: Reactive or incompatible with the following materials:,acids,oxidizing materials,strong alkalis
Hazardous decomposition products	 Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous polymerization	: Under normal conditions of storage and use, hazardous polymerization will not occur.

11. Toxicological information

Product/ingredient name	l.		Result	Species	Dose	Exposure
Manium dioxide ethanediol			LD50 Oral LD50 Oral LD50 Dermal	Rat Rat Rabbit	>10 g/kg 4700 mg/kg 9.53 g/kg	-
Conclusion/Summary Chronic toxicity	:	Not availa	ible.			
Conclusion/Summary	:	Not availa	ble.			
Defatting irritant	:	Prolongeo dermatitis		tact can defat the	skin and lead to irrita	tion, cracking and/
<u>Target organs</u>	:	nervous s Contains	ystem (CNS). material which m	· ·	he following organs: I to the following orga nea.	
Carcinogenicity						
Carcinogenicity	:		material which material which material which material which we have a second structure of the material structure of the		based on animal data	a. Risk of cancer
Classification		·		·		
Product/ingredient name	1		ACGIH	IARC	NTP	OSHA
titanium dioxide			A4	2B	-	-
			A4	-	-	-
ethanediol			-	3	-	-
silicon dioxide			A 4	1		
			A4	-	-	-

Teratogenicity

: Contains material which may cause birth defects, based on animal data.

12. Ecological information

Environmental effects

: No known significant effects or critical hazards.

Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
ethanediol	Acute LC50 8050000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas	96 hours
	Acute LC50 >10000000 ug/L Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
	Chronic NOEC 6090000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas	96 hours

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12. Ecological information

13. Disposal considerations

Waste disposal

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

14. Transport information

UN number	Proper shipping name	Classes	PG*	Additional information
None.	Not regulated.	None.	-	-
None.	Not regulated.	None.	-	-
None.	Not regulated.	None.	-	-
	None.	None. Not regulated.	None. Not regulated. None. None. Not regulated. None.	None. Not regulated. None. - None. Not regulated. None. -

PG* : Packing group

Reportable quantity RQ : CERCLA: Hazardous substances.: ethanediol: 5000 lbs. (2270 kg); 2-(2-butoxyethoxy)ethanol;

15. Regulatory information

United States inventory (TSCA 8b)	: All components are listed or exempted.
Australia inventory (AICS)	: All components are listed or exempted.
Canada inventory (DSL)	: All components are listed or exempted.
China inventory (IECSC)	: Substance Use Restricted
Europe inventory (REACH)	: Please contact your supplier for information on the inventory status of this material.
Japan inventory (ENCS)	: 🕅 least one component is not listed.
Korea inventory (KECI)	: All components are listed or exempted.
New Zealand(NZIoC)	: Substance Use Restricted
Philippines inventory (PICCS)	: All components are listed or exempted.
United States	

U.S. Federal regulations

SARA 302/304: ammonia, anhydrous; Formaldehyde; acrylonitrile; fluorine

CERCLA: Hazardous substances.: ethanediol: 5000 lbs. (2270 kg); 2-(2-butoxyethoxy)ethanol;

SARA 311/312 SDS Distribution - Chemical Inventory - Hazard Identification:

Chemical name	<u>CAS #</u>	<u>Acute</u>	Chronic	<u>Fire</u>	Reactive	<u>Pressure</u>
titanium dioxide	13463-67-7	Ν	Y	Ν	Ν	Ν
ethanediol	107-21-1	Y	Y	Ν	Ν	Ν
silicon dioxide	7631-86-9	Ν	Ν	Ν	Ν	N
aluminium hydroxide	21645-51-2	N	N	N	N	N
	Product as-supplied :	Y	Y	Ν	Ν	Ν

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E	
<u>CAS number</u> 107-21-1	<u>Concentration</u> 1 - 5
ne Environmental Data Sheet for this	s product, which
sing immediate and serious toxic effec kic effects (Very toxic). Class D-2B: M	. ,
0	
zards : 0	
	CAS number 107-21-1 The Environmental Data Sheet for this ing immediate and serious toxic effect ic effects (Very toxic). Class D-2B: Ma 0

representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)Health : 2Flammability : 1Instability : 0Date of previous issue: 1/21/2013.

Organization that prepared : EHS the MSDS

✓ Indicates information that has changed from previously issued version.

<u>Disclaimer</u>

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.