Material Safety Data Sheet



Date of issue 10 March 2014

Version 56

1. Product and company identification

Product name : EXT FLAT WHITE/PASTEL BASE

Code : 72-110

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 identification

Emergency overview : WARNING

CAUSES RESPIRATORY TRACT AND EYE IRRITATION. MAY BE HARMFUL IF INHALED OR SWALLOWED. SANDING AND GRINDING DUSTS MAY BE HARMFUL IF INHALED. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE. CANCER HAZARD - CONTAINS MATERIAL WHICH CAN CAUSE CANCER.

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 effects

Inhalation : May be harmful if inhaled. Irritating to respiratory system. Can irritate eyes, nose,

mouth and throat.

Ingestion : May be harmful if swallowed.

Skin: May cause skin dryness and irritation.

Eyes : Irritating to eyes.

Over-exposure signs/symptoms

The inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract. Ingestion may cause nausea, weakness and central nervous system effects. If splashed in the eyes, the liquid may cause irritation and reversible damage. Acrylate components of the mixture have irritating properties. Prolonged or repeated contact with skin or mucous membrane may result in irritation symptoms, such as redness, blistering, dermatitis etc. May cause allergic skin reactions with repeated exposure. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications.

Medical conditions aggravated by overexposure : 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)

United States - Canada - Mexico

Page: 1/9

Product name EXT FLAT WHITE/PASTEL BASE

3. Composition/information on ingredients

<u>Name</u>	CAS number	<u>%</u>
Manium dioxide	13463-67-7	7 - 13
zinc oxide	1314-13-2	3 - 7
Diatomaceous earth	61790-53-2	3 - 7
crystalline silica respirable (<10 microns)	14808-60-7	1 - 5
crystalline silica respirable (>10 microns)	14808-60-7	1 - 5
ethanediol	107-21-1	1 - 5
silicon dioxide	7631-86-9	0.5 - 1.5
aluminium hydroxide	21645-51-2	0.5 - 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.

3

- : 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.
 - In case of accidental eye contact, avoid concurrent exposure to the sun or other sources of UV light which may increase the sensitivity of the eyes.

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. In case of accidental skin contact, avoid concurrent exposure to the sun or other sources of UV light which may increase the sensitivity of skin.

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 **Extinguishing media**

: In a fire or if heated, a pressure increase will occur and the container may burst.

Suitable

: Use an extinguishing agent suitable for the surrounding fire.

Suitable

: None known.

Not suitable Special exposure hazards

: Fromptly 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.

United States - Canada - Mexico

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

• Woold 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).

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

Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite. To avoid the risks of fires, all contaminated materials should be placed in a metal container filled with water and sealed. Contaminated materials should be removed from the workplace at the end of each working day and be stored outside. 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	PPG
manium dioxide	TWA	10 mg/m³	15 mg/m³ TD	10 mg/m³ TD	10 mg/m³ (as Ti)	Not established
	STEL	Not established		Not established	20 mg/m³ (as Ti)	Not established
zinc oxide	TWA	2 mg/m³ R	5 mg/m³ F 5 mg/m³ R 15 mg/m³ TD	2 mg/m³ R	10 mg/m³ 5 mg/m³	Not established
	STEL	10 mg/m³ R	Not	10 mg/m³ R	10 mg/m³	Not

United States - Canada - Mexico

Page: 3/9

8. Exposure controls/personal protection

			established			established
Diatomaceous earth	TWA	Not established	20 mppcf Z 80 MG/M3 / (%SiO2) Z	3 mg/m³ R 10 mg/m³ 3 mg/m³	10 mg/m³	Not established
crystalline silica respirable (<10 microns)	TWA	0.025 mg/m³ R	10 MG/M3 / (%SiO2+2) R Z 250 MPPCF / (%SiO2+5) R Z	0.1 mg/m³ R	0.1 mg/m³ R	Not established
crystalline silica respirable (>10 microns)	TWA	0.025 mg/m ³ R	10 MG/M3 / (%SiO2+2) R Z 250 MPPCF / (%SiO2+5) R Z	0.1 mg/m³ R	0.1 mg/m³ R	Not established
ethanediol	STEL	100 mg/m³ C	Not established	100 mg/m³ C	100 mg/m³ 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/m³ 1 mg/m³ R	Not established	1 mg/m³ R	Not established	Not established

Key to abbreviations

A = Acceptable Maximum Peak S = Potential skin absorption ACGIH = American Conference of Governmental Industrial Hygienists. SR = Respiratory sensitization

C = Ceiling Limit SS = Skin sensitization
F = Fume STEL = Short term Exposure limit values
IPEL = Internal Permissible Exposure Limit TD = Total dust

OSHA = Occupational Safety and Health Administration. TLV = Threshold Limit Value
R = Respirable TWA = Time Weighted Average

Z = OSHA 29CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Engineering measures

: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protection

Eyes : Safety glasses with side shields.

United States - Canada - Mexico

Page: 4/9

Product name EXT FLAT WHITE/PASTEL BASE

8. Exposure controls/personal protection

Hands

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Gloves

: polyethylene

Respiratory

If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Skin

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. Physical and chemical properties

Physical state : Liquid.

Flash point : Closed cup: >93.33°C (>200°F)

Color : Not available.

Odor : Not available.

pH : Not available.

Boiling/condensation point : 37.22°C (99°F)

Melting/freezing point : Not available.

Specific gravity : 1.31

Density (lbs / gal) : 10.93

Vapor pressure : 2.3 kPa (17.2 mm Hg) [room temperature]

Vapor density : Not available.

Volatility : 63% (v/v), 48.29% (w/w) Evaporation rate : 0.34 (butyl acetate = 1)

Partition coefficient: n-

octanol/water

-

% Solid. (w/w)

: Not available.

: 51.71

10. Stability and reactivity

Stability

This mixture contains materials which are unstable under the following conditions: strong UV sources free radical initiators peroxides strong alkalis strong acids reactive metals These could cause the product to polymerize exothermically. Unintentional contact with them should be avoided. 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

should not be produced.

Hazardous polymerization

: Under normal conditions of storage and use, hazardous polymerization will not occur.

: Under normal conditions of storage and use, hazardous decomposition products

United States - Canada - Mexico

Page: 5/9

Product code 72-110

Product name EXT FLAT WHITE/PASTEL BASE

11. Toxicological information

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
titanium dioxide	LD50 Oral	Rat	>10 g/kg	-
ethanediol	LD50 Oral	Rat	4700 mg/kg	-
	LD50 Dermal	Rabbit	9.53 g/kg	-

Conclusion/Summary Chronic toxicity

: Not available.

Conclusion/Summary

: Not available.

Defatting irritant

 Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

Target organs

: Contains material which causes damage to the following organs: liver, spleen, bone marrow, central nervous system (CNS).

Contains material which may cause damage to the following organs: kidneys, lungs, the nervous system, heart, upper respiratory tract, skin, eye, lens or cornea.

Carcinogenicity

Carcinogenicity

: Contains material which can cause cancer. Risk of cancer depends on duration and level of exposure.

Classification

Product/ingredient name	ACGIH	IARC	NTP	OSHA
ranium dioxide	A4	2B	-	-
Diatomaceous earth	-	3	-	-
crystalline silica respirable (<10 microns)	A2	1	Known to be a human carcinogen.	-
rystalline silica respirable (>10 microns)	A2	1	Known to be a human carcinogen.	-
ethanediol	A4	-	-	-
silicon dioxide	-	3	-	-
aluminium hydroxide	A4	-	-	-

Carcinogen Classification code:

ACGIH: A1, A2, A3, A4, A5 IARC: 1, 2A, 2B, 3, 4 NTP: Proven, Possible

OSHA: +

Not listed or regulated as a carcinogen: -

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

United States - Canada - Mexico

Page: 6/9

Product name EXT FLAT WHITE/PASTEL BASE

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

	DOT	TDG	Mexico	IMDG
UN number	Not regulated.	☑ N3082	☑ N3082	☑ N3082
UN proper shipping name	-	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (zinc oxide)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (zinc oxide)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (zinc oxide)
Transport hazard class(es)	-	9	9	9
Packing group	-	III	III	III
Environmental hazards	No.	Yes.	Yes.	Yes.
Marine pollutant substances	Not applicable.	(zinc oxide)	Not applicable.	(zinc oxide)

Additional information

DOT : None identified.

TDG : The product is not regulated as a dangerous good when transported by road or rail.

Mexico : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L

or ≤5 kg.

IMDG : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

Special precautions for user: Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

United States - Canada - Mexico

Page: 7/9

Product name EXT FLAT WHITE/PASTEL BASE

15. Regulatory information

United States inventory (TSCA 8b) : All components are listed or exempted.
Australia inventory (AICS) : At least one component is not listed.
Canada inventory (DSL) : All components are listed or exempted.
China inventory (IECSC) : All components are listed or exempted.

Europe inventory (REACH): Please contact your supplier for information on the inventory status of this

material.

Japan inventory (ENCS) : At least one component is not listed.

Korea inventory (KECI) : All components are listed or exempted.

New Zealand (NZIoC) : Substance Use Restricted

Philippines inventory (PICCS) : Not determined.

United States

U.S. Federal regulations

SARA 302/304: No products were found.

CERCLA: Hazardous substances.: ethanediol: 5000 lbs. (2270 kg); zinc oxide: No RQ is being assigned to the generic or broad class.;

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

Chemical name	CAS#	<u>Acute</u>	Chronic	<u>Fire</u>	Reactive	Pressure
titanium dioxide	13463-67-7	N	Υ	N	N	N
zinc oxide	1314-13-2	N	N	N	N	N
Diatomaceous earth	61790-53-2	N	N	N	N	N
crystalline silica respirable (<10 microns)	14808-60-7	N	Υ	N	N	N
crystalline silica respirable (>10 microns)	14808-60-7	N	Υ	N	N	N
ethanediol	107-21-1	Υ	Υ	N	N	N
silicon dioxide	7631-86-9	N	N	N	N	N
aluminium hydroxide	21645-51-2	N	N	N	N	N
Produ	ict as-supplied :	Υ	Υ	N	N	N

SARA 313Chemical nameCAS numberConcentrationSupplier notification: zinc oxide1314-13-23 - 7ethanediol107-21-11 - 5

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

<u>Canada</u>

WHMIS (Canada) : Class D-1B: Material causing immediate and serious toxic effects (Toxic). Class D-2A:

Material causing other toxic effects (Very toxic). Class D-2B: Material causing other

toxic effects (Toxic).

<u>Mexico</u>

Classification

Flammability: 1 Health: 2 Reactivity: 0

Product name EXT FLAT WHITE/PASTEL BASE

16. Other information

Hazardous Material Information System (U.S.A.)

Health: 2 * Flammability: 1 Physical hazards: 0

(*) - Chronic

effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 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: 2 Flammability: 1 Instability: 0

Date of previous issue : 2/6/2014.

Organization that prepared : EHS

the MSDS

▼ Indicates information that has changed from previously issued version.

Disclaimer

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.

United States - Canada - Mexico

Page: 9/9