Material Safety Data Sheet



Date of issue 29 May 2018

Version 30

Product and company identification

Product name : UV CURED PRIMER SURFACER

Code : D8080

Manufacturer / 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 or + 52 55 5559 1588 (Mexico)

Technical Phone Number : 1-800-647-6050

2. Hazards identification

Emergency overview

: DANGER!

EXTREMELY FLAMMABLE. CONTENTS UNDER PRESSURE. HARMFUL IF ABSORBED THROUGH SKIN. CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. 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.

Keep away from flames, such as a pilot light, and any object that sparks, such as an electric motor. Keep away from heat. Do not smoke. Do not puncture, incinerate or store the container at temperatures above 120°F (49°C) or in direct sunlight. Do not swallow. Do not get in eyes or on skin or clothing. Avoid breathing vapor or mist. 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

: Toxic in contact with skin. Severely irritating to the skin. May cause an allergic skin

reaction

Eves

Severely irritating to eyes. Risk of serious damage 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.

Medical conditions aggravated by overexposure : Pre-existing skin disorders and disorders involving any other 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). (1988 Version)

See toxicological information (Section 11)

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3. Composition/information on ingredients

<u>Name</u>	CAS number	% (w/w)
dimethyl ether	115-10-6	15 - 40
acetone	67-64-1	10 - 30
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	5888-33-5	7 - 13
Kaolin	1332-58-7	5 - 10
(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate	42978-66-5	1 - 5
2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate	52628-03-2	0.5 - 1.5
2-(2-ethoxyethoxy)ethyl acrylate	7328-17-8	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.

Eye contact

Remove contact lenses, irrigate copiously with clean, fresh water, holding the
eyelids apart for at least 10 minutes and seek immediate medical advice.
 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.

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

Extremely flammable aerosol. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. Runoff to sewer may create fire or explosion hazard.

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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

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5. Fire-fighting measures

Hazardous combustion products

: Decomposition products may include the following materials: carbon oxides

phosphorus 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. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. 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). Water polluting material. May be harmful to the environment if released in large quantities.

Large spill

: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Use spark-proof tools and explosion-proof equipment. 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. Use spark-proof tools and explosion-proof equipment. 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. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not swallow. Do not get in eyes or on skin or clothing. Avoid breathing vapor or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Vapors are heavier than air and may spread along floors. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Empty containers retain product residue and can be hazardous. 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

Do not store below the following temperature: 7.22°C (45°F). Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination.

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8. Exposure controls/personal protection

Name	Result	ACGIH	Ontario	Mexico	PPG
acetone	TWA STEL	250 ppm 500 ppm	500 ppm 750 ppm	500 ppm 750 ppm	Not established Not established
Kaolin	TWA	2 mg/m³ R	2 mg/m³ R	2 mg/m³ R	Not established

Key to abbreviations

A = Acceptable Maximum Peak SR = Respiratory sensitization
ACGIH = American Conference of Governmental Industrial Hygienists. SS = Skin sensitization

C = Ceiling Limit STEL = Short term Exposure limit values

F = Fume TD = Total dust

 IPEL
 = Internal Permissible Exposure Limit
 TLV
 = Threshold Limit Value

 R
 = Respirable
 TWA
 = Time Weighted Average

S = Potential skin absorption

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures

Product code D8080

: 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. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protection

Eyes Hands

- : Chemical splash goggles.
- : 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 Respiratory

: nitrile, neoprene

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.

When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

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Exposure controls/personal protection 8.

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: -41°C (-41.8°F)

: Lower: 2.2% **Explosion limits**

Material supports combustion.

Yes.

Color

: Clear.

Odor : Not available. pН : Not available. **Boiling/condensation point** : 12.78°C (55°F) Melting/freezing point : Not available.

Specific gravity : 0.86 Density (lbs/gal) : 7.18 Bulk Density (g/cm³) : 0.864

: 30.8 kPa (231 mm Hg) [room temperature] Vapor pressure

Vapor density : Not available.

Volatility : 75% (v/v), 60.91% (w/w) **Evaporation rate** : 4.26 (butyl acetate = 1)

Solubility : Insoluble in the following materials: cold water. : Not available.

Partition coefficient: n-

octanol/water

: 39.09 % Solid. (w/w)

10. Stability and reactivity

Stability The product may not be stable under certain conditions of storage or use. 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.

Conditions to avoid Avoid all possible sources of ignition (spark or flame). Avoid increased storage

temperature. Pressure hazard

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

Acute toxicity

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11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
methyl ether	LC50 Inhalation	Rat	309 g/m3	4 hours
acetone	LD50 Oral	Rat	5800 mg/kg	-
	LD50 Dermal	Rabbit	15.8 g/kg	-
	LC50 Inhalation	Rat	76000 mg/m3	4 hours
	Vapor			
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	LD50 Oral	Rat	2.3 g/kg	-
	LD50 Dermal	Rabbit	5.1 g/kg	-
Kaolin	LD50 Oral	Rat	>5000 mg/kg	-
(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2, 1-ethanediyl)] diacrylate	LD50 Oral	Rat	6200 mg/kg	-
	LD50 Dermal	Rabbit	2 g/kg	-

Conclusion/Summary

Conclusion/Summary

: Not available.

Chronic toxicity

: 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: brain.

Contains material which may cause damage to the following organs: lungs,
gastrointestinal tract, upper respiratory tract, skin, central nervous system (CNS), eye,
lens or cornea, stomach.

Carcinogenicity

Classification

Product/ingredient name	ACGIH	IARC	NTP
cetone	A4	-	-
Kaolin	A4	-	-

Carcinogen Classification code:

ACGIH: A1, A2, A3, A4, A5

IARC: 1, 2A, 2B, 3, 4

NTP: Known to be a human carcinogen; Reasonably anticipated to be

a human carcinogen

Not listed or regulated as a carcinogen: -

12. Ecological information

Environmental effects

: Water polluting material. May be harmful to the environment if released in large quantities.

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. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

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

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14. Transport information

Product code D8080

	TDG	Mexico	IMDG
UN number	1950	1950	1950
UN proper shipping name	AEROSOLS	AEROSOLS	AEROSOLS
Transport hazard class(es)	2.1	2.1	2.1
Packing group	-	-	-
Environmental hazards	Yes.	Yes. The environmentally hazardous substance mark is not required.	Yes.
Marine pollutant substances	(exo-1,7, 7-trimethylbicyclo[2.2. 1]hept-2-yl acrylate, trizinc bis (orthophosphate))	Not applicable.	(trizinc bis (orthophosphate))

Additional information

TDG : The marine pollutant mark is not required when transported by road or rail.

: None identified. **Mexico**

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.

Proof of classification statement

: Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.13-2.17 (Class 2), 2.7 (Marine pollutant mark).

15. Regulatory information

: At least one component is not listed. Canada inventory (DSL)

Canada

WHMIS (Canada) : Class B-5: Flammable aerosol. Class A: Compressed gas. 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).

Mexico

Classification

Flammability: 4 Health: 3 Reactivity: 1

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16. Other information

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

Health: 3 * Flammability: 4 Physical hazards: 1

(*) - 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. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)

Health: 3 Flammability: 4 Instability: 1

Date of previous issue : 5/26/2017
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.

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