Material Safety Data Sheet



Date of issue 12 March 2014

Version 9

Product and company identification

Product name : Olympic 100% Acrylic High Gloss Safety Yellow

Code : 76344

Supplier : PPG Industries, Inc.

One PPG Place Pittsburgh, PA 15272 : (412) 434-4515 (U.S.)

Emergency telephone

number

(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!

HARMFUL IF ABSORBED THROUGH SKIN. MAY BE HARMFUL IF INHALED OR SWALLOWED. SANDING AND GRINDING DUSTS MAY BE HARMFUL IF INHALED. MAY CAUSE EYE IRRITATION. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.

Do not get in eyes or on skin or 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. Exposure to decomposition products may cause a health

hazard. Serious effects may be delayed following exposure.

Ingestion: May be harmful if swallowed.Skin: Toxic in contact with skin.Eyes: Moderately irritating to eyes.

Over-exposure signs/symptoms

Inhalation: No specific data.Ingestion: No specific data.Skin: No specific data.

Eyes : Adverse symptoms may include the following:

irritation watering redness

Medical conditions aggravated by over-

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)

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Product name Olympic 100% Acrylic High Gloss Safety Yellow

3. Composition/information on ingredients

CAS number <u>%</u> **Name** titanium dioxide 13463-67-7 5 - 102-(2-methoxyethoxy)ethanol

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.

First aid measures 4

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.

: If swallowed, seek medical advice immediately and show this container or label. Ingestion

Keep person warm and at rest. Do NOT induce vomiting.

: In case of inhalation of decomposition products in a fire, symptoms may be delayed. Notes to physician

The exposed person may need to be kept under medical surveillance for 48 hours.

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

: Use an extinguishing agent suitable for the surrounding fire. Suitable

Not suitable : None known.

: Promptly isolate the scene by removing all persons from the vicinity of the incident if Special exposure hazards

there is a fire. No action shall be taken involving any personal risk or without suitable

Hazardous combustion : Decomposition products may include the following materials: products carbon oxides

nitrogen oxides metal oxide/oxides

Special protective : Fire-fighters should wear appropriate protective equipment and self-contained equipment for fire-fighters 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).

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains **Environmental precautions** and sewers. Inform the relevant authorities if the product has caused environmental

pollution (sewers, waterways, soil or air).

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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. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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	Not established	20 mg/m³ (as Ti)	Not established
2-(2-methoxyethoxy)ethanol	TWA	Not established	Not established	Not established	Not established	30 ppm

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 LimitTD= Total dustOSHA= Occupational Safety and Health Administration.TLV= Threshold Limit ValueR= RespirableTWA= Time Weighted Average

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

Consult local authorities for acceptable exposure limits.

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8. Exposure controls/personal protection

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

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

Hands

Eyes : Safety glasses with side shields.

: 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.

: 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.

: 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

Skin

Respiratory

: 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)

Explosion limits : Lower: 9.9%

Material supports

combustion.

: Yes.

Color : Not available.

Odor : Not available.

pH : Not available.

Boiling/condensation point : >37.78°C (>100°F)

Melting/freezing point : Not available.

Specific gravity : 1.1

Density (lbs / gal) : 9.18

Vapor pressure : 2.5 kPa (18.7 mm Hg) [room temperature]

Vapor density : Not available.

Volatility : 64% (v/v), 57.47% (w/w) Evaporation rate : 0.38 (butyl acetate = 1)

Solubility : Soluble in the following materials: cold water.

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9. Physical and chemical properties

Partition coefficient: n-

: Not available.

octanol/water

% Solid. (w/w) : 42.53

10 . Stability and reactivity

Stability

: Stable under recommended storage and handling conditions (see Section 7).

Conditions to avoid Materials to avoid No specific data.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

Product/ingredient name	Result	Species	Dose	Exposure
titanium dioxide	LD50 Oral	Rat	>10 g/kg	-
2-(2-methoxyethoxy)ethanol	LD50 Oral	Rat	4 mL/kg	-
	LD50 Dermal	Rabbit	0.65 g/kg	-

Conclusion/Summary

Chronic toxicity

: Not available.

Conclusion/Summary

: Not available.

Target organs

: Contains material which may cause damage to the following organs: upper respiratory

tract.

Carcinogenicity

Carcinogenicity

: Contains material which may cause cancer, based on animal data. Risk of cancer

depends on duration and level of exposure.

Classification

Product/ingredient name	ACGIH	IARC	NTP	OSHA
titanium dioxide	A4	2B	-	-

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.

Developmental effects

: Contains material which may cause developmental abnormalities, based on animal

data.

12. Ecological information

Environmental effects

: No known significant effects or critical hazards.

Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
2-(2-methoxyethoxy) ethanol	Acute LC50 7500000 ug/L Fresh water	Fish - Bluegill - Lepomis macrochirus	96 hours

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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.	Mot regulated.	N ot regulated.	Not regulated.
UN proper shipping name				
Transport hazard class(es)	-			
Packing group	-	-	-	-
Environmental hazards	№o.	№ o.	₩o.	₩o.
Marine pollutant substances	Mot applicable.	Not applicable.	Not applicable.	Mot applicable.

Additional information

DOT : Mone identified.

TDG : Mone identified.

Mexico : Mone identified.

IMDG : Mone identified.

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.

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) : Not determined.

Korea inventory (KECI) : At least one component is not listed.

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15. Regulatory information

New Zealand (NZIoC) : Substance Use Restricted

Philippines inventory (PICCS) : At least one component is not listed.

United States

United States - TSCA 5(a)2 - Final significant new use rules: sodium nitrite Listed

SARA 302/304: No products were found.

CERCLA: Hazardous substances.: ammonia: 1000 lbs. (454 kg); 2-(2-methoxyethoxy)ethanol: 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	<u>Pressure</u>
titanium dioxide	13463-67-7	N	Υ	N	N	N
2-(2-methoxyethoxy)ethanol	111-77-3	Υ	Υ	Υ	N	N
P	roduct as-supplied:	Y	٧	N	N	N

SARA 313Chemical nameCAS numberConcentrationSupplier notification2-(2-methoxyethoxy)ethanol111-77-31 - 5

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

Canada

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).

Mexico

Classification

Flammability: 1 Health: 3 Reactivity: 0

16. Other information

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

Health: 3 * 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: 3 Flammability: 1 Instability: 0

Date of previous issue : 10/3/2013.

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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