## SAFETY DATA SHEET



Date of issue/Date of revision 6 October 2016

**Version 9** 

## **Section 1. Identification**

Product name : Omni AE Acrylic Enamel

Product code : MAE-1

Other means of

identification

: Not available.

Product type : Liquid.

#### Relevant identified uses of the substance or mixture and uses advised against

Product use : Industrial applications.

Use of the substance/

mixture

: Coating. Paints. Painting-related materials.

Uses advised against : Not applicable.

Manufacturer : 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** : (740) 363-9610 (DELAWARE, OH) 8:00 a.m. - 5:00 p.m. EST

## Section 2. Hazards identification

**OSHA/HCS** status

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

: FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2

TOXIC TO REPRODUCTION (Unborn child) - Category 2

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -

Category 3

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (central nervous

system (CNS), hearing organs, kidneys and liver) - Category 1

Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 100%

#### **GHS** label elements

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## Section 2. Hazards identification

#### **Hazard pictograms**







#### Signal word

#### **Hazard statements**

- : Danger
- : Highly flammable liquid and vapor.

Causes serious eye irritation.

Causes skin irritation.

Suspected of damaging the unborn child.

Suspected of causing cancer.

May cause respiratory irritation.

May cause drowsiness or dizziness.

Causes damage to organs through prolonged or repeated exposure. (central nervous system (CNS), hearing organs, kidneys, liver)

#### **Precautionary statements**

#### **Prevention**

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

#### Response

: Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

#### Storage Disposal

: Store locked up. Store in a well-ventilated place. Keep cool.

# Supplemental label elements

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

# Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. This product either contains formaldehyde or is capable of releasing formaldehyde above 0.5 ppm under certain conditions. Formaldehyde is a known cancer hazard, a skin sensitizer and a respiratory sensitizer. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated. DANGER - RAGS, STEEL WOOL OR WASTE SOAKED WITH THIS PRODUCT MAY SPONTANEOUSLY CATCH FIRE IF IMPROPERLY DISCARDED. IMMEDIATELY AFTER EACH USE, PLACE RAGS, STEEL WOOL OR WASTE IN A SEALED WATER-FILLED METAL CONTAINER.

# Hazards not otherwise classified

: May form explosive peroxides. Hazardous reactions or instability may occur under certain conditions of storage or use. Prolonged or repeated contact may dry skin and cause irritation.

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## Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Product name : Omni AE Acrylic Enamel

Ingredient name	%	CAS number
<b>x</b> ylene	≥50 - ≤69	1330-20-7
Mica-group minerals	≥50 - ≤75	12001-26-2
diiron trioxide	≥50 - ≤75	1309-37-1
toluene	≥20 - ≤50	108-88-3
titanium dioxide	≥20 - ≤50	13463-67-7
n-butyl acetate	≥20 - ≤50	123-86-4
heptan-2-one	≥20 - ≤28	110-43-0
2-methoxy-1-methylethyl acetate	≥10 - ≤20	108-65-6
Naphtha (petroleum), heavy alkylate	≥10 - ≤20	64741-65-7
ethylbenzene	≥10 - ≤14	100-41-4
Aluminium powder (stabilized)	≥5.0 - ≤10	7429-90-5
ethyl 3-ethoxypropionate	≥5.0 - ≤10	763-69-9
Naphtha (petroleum), hydrotreated heavy	≥5.0 - ≤10	64742-48-9
Stoddard solvent	≥5.0 - ≤10	8052-41-3
tin dioxide	≥5.0 - ≤10	18282-10-5
acetone	≥1.0 - ≤5.0	67-64-1
pentan-2-one	≥1.0 - ≤5.0	107-87-9
butanone	≥1.0 - ≤3.9	78-93-3
carbon black, respirable powder	≥1.0 - ≤5.0	1333-86-4
Solvent naphtha (petroleum), light aromatic	≥1.0 - ≤5.0	64742-95-6
[1,3,8,16,18,24-hexabromo-2,4,9,10,11,15,17,22,23,25-decachloro-29H,31H-	≥1.0 - ≤5.0	14302-13-7
phthalocyaninato(2-)-N29,N30,N31,N32]copper		
[1-[[(2-hydroxyphenyl)imino]methyl]-2-naphtholato(2-)-N,O,O']copper	≤1.4	15680-42-9
2-butanone oxime	<1.0	96-29-7
4-methylpentan-2-one	<1.0	108-10-1
[N,N,N',N',N"-hexaethyl-29H,31H-phthalocyaninetrimethylaminato(2-)-N29,N30,N31,N32]copper	<1.0	28654-73-1

SUB codes represent substances without registered CAS Numbers.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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.

Occupational exposure limits, if available, are listed in Section 8.

## 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 Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

#### **Description of necessary first aid measures**

Inhalation

**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.

: 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.

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## Section 4. First aid measures

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.

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

person warm and at rest. Do NOT induce vomiting.

#### Most important symptoms/effects, acute and delayed

Potential acute health effects

**Eye contact** : Causes serious eye irritation.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness. May cause respiratory irritation.

**Skin contact**: Causes skin irritation. Defatting to the skin.

Ingestion : Can cause central nervous system (CNS) depression.

Over-exposure signs/symptoms

**Eye contact**: Adverse symptoms may include the following:

pain or irritation watering

redness

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations

**Skin contact**: Adverse symptoms may include the following:

irritation redness dryness cracking

reduced fetal weight increase in fetal deaths skeletal malformations

**Ingestion** : Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

Indication of immediate medical attention and special treatment needed, if necessary

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

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

**Specific treatments**: No specific treatment.

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#### Section 4. First aid measures

**Protection of first-aiders** 

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing media

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

Unsuitable extinguishing media

: Do not use water jet.

Specific hazards arising from the chemical

: Highly flammable liquid and vapor. 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. Runoff to sewer may create fire or explosion hazard.

**Hazardous thermal** decomposition products Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides sulfur oxides

halogenated compounds metal oxide/oxides

Special protective actions for fire-fighters

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.

**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.

## Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: 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. 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.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

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## Section 6. Accidental release measures

**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).

#### Methods and materials for containment and cleaning up

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. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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.

## Section 7. Handling and storage

#### **Precautions for safe handling**

**Protective measures** 

Put on appropriate personal protective equipment (see Section 8). Avoid exposure obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. 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 only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Special precautions** 

: Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later. To avoid the risks of fires, all contaminated materials should be stored in purpose-built containers or in metal containers with tight-fitting, self-closing lids. Contaminated materials should be removed from the workplace at the end of each working day and be stored outside. May form explosive peroxides. Keep away from combustible materials. Avoid shock and friction. Avoid all possible sources of ignition (spark or flame). If this material is part of a multiple component system, read the 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.

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## Section 7. Handling and storage

Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Do not store above the following temperature: 35°C (95°F). Store in accordance with local regulations. Store in a segregated and approved area. 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. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. 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.

## Section 8. Exposure controls/personal protection

#### **Control parameters**

Occupational exposure limits

ngredient name	Exposure limits		
ylene	ACGIH TLV (United States, 3/2015).		
	STEL: 651 mg/m³ 15 minutes.		
	STEL: 150 ppm 15 minutes.		
	TWA: 434 mg/m <sup>3</sup> 8 hours.		
	TWA: 100 ppm 8 hours.		
	OSHA PEL (United States, 2/2013).		
	TWA: 435 mg/m <sup>3</sup> 8 hours.		
	TWA: 100 ppm 8 hours.		
lica-group minerals	ACGIH TLV (United States, 3/2015).		
3 1	TWA: 3 mg/m³ 8 hours. Form: Respirable		
	fraction		
	OSHA PEL Z3 (United States, 2/2013).		
	TWA: 20 mppcf 8 hours.		
diiron trioxide	ACGIH TLV (United States, 3/2015).		
	TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable		
	fraction		
	OSHA PEL (United States, 2/2013).		
	TWA: 10 mg/m <sup>3</sup> 8 hours.		
luene	OSHA PEL Z2 (United States, 2/2013).		
	AMP: 500 ppm 10 minutes.		
	CEIL: 300 ppm		
	TWA: 200 ppm 8 hours.		
	ACGIH TLV (United States, 3/2015).		
	TWA: 20 ppm 8 hours.		
tanium dioxide	OSHA PEL (United States, 2/2013).		
	TWA: 15 mg/m³ 8 hours. Form: Total dust		
	ACGIH TLV (United States, 3/2015).		
	TWA: 10 mg/m³ 8 hours.		
-butyl acetate	ACGIH TLV (United States, 3/2015).		
and, and and	STEL: 200 ppm 15 minutes.		
	TWA: 150 ppm 8 hours.		
	1 TTT L. 100 ppin o nouio.		
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## Section 8. Exposure controls/personal protection

OSHA PEL (United States, 2/2013). TWA: 710 mg/m<sup>3</sup> 8 hours. TWA: 150 ppm 8 hours. heptan-2-one ACGIH TLV (United States, 3/2015). TWA: 233 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. OSHA PEL (United States, 2/2013). TWA: 465 mg/m<sup>3</sup> 8 hours. TWA: 100 ppm 8 hours. 2-methoxy-1-methylethyl acetate IPEL (PPG, 4/2009). TWA: 50 ppm Naphtha (petroleum), heavy alkylate None. ethylbenzene ACGIH TLV (United States, 3/2015). TWA: 20 ppm 8 hours. OSHA PEL (United States, 2/2013). TWA: 435 mg/m<sup>3</sup> 8 hours. TWA: 100 ppm 8 hours. aluminium powder (stabilised) ACGIH TLV (United States, 3/2015). TWA: 1 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction OSHA PEL (United States, 2/2013). TWA: 5 mg/m<sup>3</sup>, (as Al) 8 hours. Form: Respirable fraction TWA: 15 mg/m<sup>3</sup>, (as Al) 8 hours. Form: Total dust ethyl 3-ethoxypropionate IPEL (PPG). TWA: 50 ppm STEL: 100 ppm Naphtha (petroleum), hydrotreated heavy None. Stoddard solvent ACGIH TLV (United States, 3/2015). TWA: 525 mg/m<sup>3</sup> 8 hours. TWA: 100 ppm 8 hours. OSHA PEL (United States, 2/2013). TWA: 2900 mg/m<sup>3</sup> 8 hours. TWA: 500 ppm 8 hours. tin dioxide ACGIH TLV (United States, 3/2015). TWA: 2 mg/m<sup>3</sup>. (as Sn) 8 hours. OSHA PEL (United States). TWA: 2 mg/m³ Form: Total dust TWA: 2 mg/m3 ACGIH TLV (United States, 3/2015). acetone STEL: 500 ppm 15 minutes. TWA: 250 ppm 8 hours. OSHA PEL (United States, 2/2013). TWA: 2400 mg/m<sup>3</sup> 8 hours. TWA: 1000 ppm 8 hours. OSHA PEL (United States, 2/2013). pentan-2-one TWA: 700 mg/m<sup>3</sup> 8 hours. TWA: 200 ppm 8 hours. ACGIH TLV (United States, 3/2015). STEL: 150 ppm 15 minutes. ACGIH TLV (United States, 3/2015). butanone

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Solvent naphtha (petroleum), light aromatic

31H-phthalocyaninato(2-)-N29,N30,N31,N32]copper

carbon black, respirable powder

## Section 8. Exposure controls/personal protection

[1,3,8,16,18,24-hexabromo-2,4,9,10,11,15,17,22,23,25-decachloro-29H,

[1-[[(2-hydroxyphenyl)imino]methyl]-2-naphtholato(2-)-N,O,O']copper

STEL: 885 mg/m3 15 minutes. STEL: 300 ppm 15 minutes. TWA: 590 mg/m<sup>3</sup> 8 hours. TWA: 200 ppm 8 hours.

OSHA PEL (United States, 2/2013).

TWA: 590 mg/m<sup>3</sup> 8 hours. TWA: 200 ppm 8 hours.

ACGIH TLV (United States, 3/2015).

TWA: 3 mg/m<sup>3</sup> 8 hours. Form: Inhalable

OSHA PEL (United States, 2/2013).

TWA: 3.5 mg/m<sup>3</sup> 8 hours.

None. None.

None. IPEL (PPG).

TWA: 3 ppm STEL: 9 ppm

ACGIH TLV (United States, 3/2015).

STEL: 75 ppm 15 minutes. TWA: 20 ppm 8 hours.

OSHA PEL (United States, 2/2013).

TWA: 410 mg/m<sup>3</sup> 8 hours. TWA: 100 ppm 8 hours.

[N,N,N',N',N",N"-hexaethyl-29H,31H-phthalocyaninetrimethylaminato(2-) None.

-N29,N30,N31,N32]copper

2-butanone oxime

4-methylpentan-2-one

#### Key to abbreviations

= Acceptable Maximum Peak S = Potential skin absorption SR ACGIH = American Conference of Governmental Industrial Hygienists. = Respiratory sensitization С = 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 = Time Weighted Average R = Respirable TWA

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

#### Consult local authorities for acceptable exposure limits.

# procedures

**Recommended monitoring**: 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.

#### Appropriate engineering controls

: 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.

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## Section 8. Exposure controls/personal protection

**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.

#### **Individual protection measures**

**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.

Eye/face protection
Skin protection
Hand protection

: 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 to several substances, the

<u>pr</u>otection time of the gloves cannot be accurately estimated.

Gloves

: For prolonged or repeated handling, use the following type of gloves:

May be used: butyl rubber

Recommended: polyvinyl alcohol (PVA), Viton®, Chloroprene, nitrile rubber, PVC,

natural rubber (latex)

**Body protection** 

: 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 antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** 

: 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. 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.

## Section 9. Physical and chemical properties

**Appearance** 

Physical state : Liquid.

Color : Not available.

Odor : Not available.

Odor threshold : Not available.

pH : Not available.

Melting point : Not available.

Boiling point : >37.78°C (>100°F)

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## Section 9. Physical and chemical properties

Yes.

: Closed cup: 7.78°C (46°F) Flash point

**Material supports** 

combustion.

**Auto-ignition temperature** : Not available. **Decomposition temperature** : Not available. Flammability (solid, gas) : Not available. Lower and upper explosive : Not available.

(flammable) limits

: Not available. **Evaporation rate** Vapor pressure : Not available. Vapor density : Not available.

**Relative density** : 1 Density (lbs/gal) 8.35

**Solubility** : Insoluble in the following materials: cold water.

Partition coefficient: n-

octanol/water

: Not available.

**Viscosity** : Kinematic (40°C (104°F)): >0.21 cm<sup>2</sup>/s (>21 cSt)

**Volatility** : 61% (v/v), 53% (w/w)

% Solid. (w/w) : 47.19

Physical property values shown in this section are calculated averages. For specific product information, contact your PPG Sales Representative.

## Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** : The product is stable.

Possibility of hazardous

reactions

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

**Conditions to avoid** : When exposed to high temperatures may produce hazardous decomposition products.

Refer to protective measures listed in sections 7 and 8.

: Keep away from the following materials to prevent strong exothermic reactions: Incompatible materials

oxidizing agents, strong alkalis, strong acids.

**Hazardous decomposition** 

products

: Decomposition products may include the following materials: carbon monoxide, carbon

dioxide, smoke, oxides of nitrogen.

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# Section 11. Toxicological information

## Information on toxicological effects

## **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
<b>x</b> ylene	LC50 Inhalation Gas.	Rat	6670 ppm	4 hours
	LC50 Inhalation Vapor	Rat	5000 ppm	4 hours
	LD50 Dermal	Rabbit	>1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
diiron trioxide	LD50 Oral	Rat	10 g/kg	_
toluene	LC50 Inhalation Vapor	Rat	49 g/m³	4 hours
	LC50 Inhalation Vapor	Rat	8000 ppm	4 hours
	LD50 Dermal	Rabbit	8.39 g/kg	L
	LD50 Oral	Rat	636 mg/kg	
titanium dioxide	LD50 Oral	Rat	>11 g/kg	
		Rat	>21.1 mg/l	4 hours
n-butyl acetate	LC50 Inhalation Vapor			
	LC50 Inhalation Vapor	Rat	2000 ppm	4 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	10.768 g/kg	-
heptan-2-one	LC50 Inhalation Vapor	Rat	>16.7 mg/l	4 hours
	LD50 Dermal	Rabbit	10.206 g/kg	-
	LD50 Oral	Rat	1.6 g/kg	-
2-methoxy-1-methylethyl acetate	LD50 Dermal	Rabbit	>5 g/kg	-
acciaic	LD50 Oral	Rat	8532 mg/kg	
othylbonzono	LC50 Inhalation Vapor	Rat	4000 ppm	4 hours
ethylbenzene				4 110015
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
ethyl 3-ethoxypropionate	LD50 Dermal	Rabbit	10 g/kg	-
	LD50 Oral	Rat	3200 mg/kg	-
Naphtha (petroleum), hydrotreated heavy	LC50 Inhalation Vapor	Rat	8500 mg/m <sup>3</sup>	4 hours
•	LD50 Oral	Rat	>6 g/kg	-
Stoddard solvent	LD50 Oral	Rat	>5 g/kg	_
tin dioxide	LD50 Oral	Rat	>20 g/kg	_
acetone	LC50 Inhalation Vapor	Rat	76000 mg/m <sup>3</sup>	4 hours
accione	LD50 Dermal	Rabbit	20 g/kg	_
	LD50 Oral	Rat	1.8 g/kg	
nonton 2 ono	LD50 Oral			-
pentan-2-one		Rabbit	6500 mg/kg	-
hta.a.a.a	LD50 Oral	Rat	1600 mg/kg	4   10   10   10   10   10   10   10   1
butanone	LC50 Inhalation Vapor	Rat	11243 ppm	4 hours
	LD50 Dermal	Rabbit	6480 mg/kg	-
	LD50 Oral	Rat	2737 mg/kg	-
carbon black, respirable powder	LD50 Dermal	Rabbit	>3 g/kg	-
•	LD50 Oral	Rat	>15400 mg/kg	-
Solvent naphtha (petroleum), light aromatic	LD50 Dermal	Rabbit	3.48 g/kg	-
ngni aromatic	I DEO Orol	Dot	0400 mg/kg	
[4 [[/2 by draw (shaped)insignal	LD50 Oral	Rat	8400 mg/kg	- 4 hours
[1-[[(2-hydroxyphenyl)imino] methyl]-2-naphtholato(2-)-N,	LC50 Inhalation Dusts and mists	Rat	>1000 mg/m <sup>3</sup>	4 hours
O,O']copper				
2-butanone oxime	LD50 Oral	Rat	930 mg/kg	-
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**Product name Omni AE Acrylic Enamel** 

## **Section 11. Toxicological information**

4-methylpentan-2-one	LC50 Inhalation Vapor	Rat	32772 mg/m <sup>3</sup>	4 hours
	LD50 Oral	Rat	2.08 g/kg	-

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## Conclusion/Summary

: There are no data available on the mixture itself.

#### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	

#### Conclusion/Summary

Skin : There are no data available on the mixture itself.
 Eyes : There are no data available on the mixture itself.
 Respiratory : There are no data available on the mixture itself.

#### **Sensitization**

**Conclusion/Summary** 

Skin : There are no data available on the mixture itself.

Respiratory : There are no data available on the mixture itself.

**Mutagenicity** 

**Conclusion/Summary**: There are no data available on the mixture itself.

**Carcinogenicity** 

**Conclusion/Summary**: There are no data available on the mixture itself.

**Classification** 

Product/ingredient name	OSHA	IARC	NTP
<b>x</b> ylene	-	3	-
diiron trioxide	-	3	-
toluene	-	3	-
titanium dioxide	-	2B	-
ethylbenzene	-	2B	-
carbon black, respirable powder	-	2B	-
4-methylpentan-2-one	-	2B	-

#### **Carcinogen Classification code:**

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

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

OSHA: +

Not listed/not regulated: -

#### Reproductive toxicity

**Conclusion/Summary**: There are no data available on the mixture itself.

**Teratogenicity** 

**Conclusion/Summary**: There are no data available on the mixture itself.

Specific target organ toxicity (single exposure)

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## **Product name Omni AE Acrylic Enamel**

## Section 11. Toxicological information

Name	Category
xylene	Category 3
toluene	Category 3
n-butyl acetate	Category 3
Naphtha (petroleum), hydrotreated heavy	Category 3
acetone	Category 3
pentan-2-one	Category 3
butanone	Category 3
Solvent naphtha (petroleum), light aromatic	Category 3
4-methylpentan-2-one	Category 3

#### Specific target organ toxicity (repeated exposure)

Name	Category
xylene	Category 2
toluene	Category 2
ethylbenzene	Category 2
Stoddard solvent	Category 1

#### **Target organs**

: Contains material which causes damage to the following organs: brain, central nervous system (CNS), eye, lens or cornea.

Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, the reproductive system, liver, heart, peripheral nervous system, gastrointestinal tract, upper respiratory tract, skin, ears, testes.

#### **Aspiration hazard**

Name	Result
xylene	ASPIRATION HAZARD - Category 1
toluene	ASPIRATION HAZARD - Category 1
Naphtha (petroleum), heavy alkylate	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1
Naphtha (petroleum), hydrotreated heavy	ASPIRATION HAZARD - Category 1
Stoddard solvent	ASPIRATION HAZARD - Category 1
Solvent naphtha (petroleum), light aromatic	ASPIRATION HAZARD - Category 1

#### Information on the likely routes of exposure

#### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness. May cause respiratory irritation.

**Skin contact**: Causes skin irritation. Defatting to the skin.

**Ingestion** : Can cause central nervous system (CNS) depression.

#### Over-exposure signs/symptoms

**Eye contact**: Adverse symptoms may include the following:

pain or irritation watering

redness

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**Product name Omni AE Acrylic Enamel** 

## Section 11. Toxicological information

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations

Skin contact : Adverse symptoms may include the following:

> irritation redness dryness cracking

reduced fetal weight increase in fetal deaths skeletal malformations

: Adverse symptoms may include the following: Ingestion

reduced fetal weight increase in fetal deaths skeletal malformations

#### Delayed and immediate effects and also chronic effects from short and long term exposure

**Conclusion/Summary** 

There are no data available on the mixture itself. This product either contains formaldehyde or is capable of releasing formaldehyde above 0.5 ppm under certain conditions. Formaldehyde is a known cancer hazard, a skin sensitizer and a respiratory sensitizer. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatique, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account. where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Short term exposure

**Potential immediate** 

effects

: There are no data available on the mixture itself.

Potential delayed effects

Long term exposure

: There are no data available on the mixture itself.

Potential immediate

: There are no data available on the mixture itself.

effects Potential delayed effects

: There are no data available on the mixture itself.

Potential chronic health effects

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**Product name Omni AE Acrylic Enamel** 

## **Section 11. Toxicological information**

General : Causes damage to organs through prolonged or repeated exposure. Prolonged or

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

Carcinogenicity : Suspected of causing cancer. Risk of cancer depends on duration and level of

exposure.

Mutagenicity: No known significant effects or critical hazards.Teratogenicity: Suspected of damaging the unborn child.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

#### Numerical measures of toxicity

#### **Acute toxicity estimates**

Route	ATE value
Oral	3312.5 mg/kg
Dermal	6671.5 mg/kg
Inhalation (gases)	21067.7 ppm
Inhalation (vapors)	38.67 mg/l
Inhalation (dusts and mists)	5.624 mg/l

## Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
	Acute LC50 >100 mg/l Fresh water Acute LC50 161 mg/l Fresh water	Daphnia - Daphnia magna Fish	48 hours 96 hours
ethylbenzene	Acute LC50 150 to 200 mg/l Fresh water	Fish - Lepomis macrochirus - Young of the year	96 hours

#### Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
<b>x</b> ylene	-	-	Readily
toluene	-	-	Readily
ethylbenzene	-	-	Readily
acetone	-	-	Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
xylene	3.16	7.4 to 18.5	low
toluene	2.73	8.32	low
n-butyl acetate	1.78	-	low
heptan-2-one	1.98	-	low
2-methoxy-1-methylethyl acetate	0.56	-	low
ethylbenzene	3.15	79.43	low
Stoddard solvent	3.16 to 7.06	-	high
acetone	-0.24	3	low

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pentan-2-one	0.91	-	low		
butanone	0.29	-	low		
2-butanone oxime	0.63	5.01	low		
4-methylpentan-2-one	1.31	-	low		

**Mobility in soil** 

Soil/water partition coefficient (K<sub>oc</sub>)

: Not available.

## Section 13. Disposal considerations

**Disposal methods** 

: 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. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. 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	IMDG	IATA
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class (es)	3	3	3
Packing group	II	II	II
<b>Environmental hazards</b>	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.
Product RQ (lbs)	152.51	Not applicable.	Not applicable.
RQ substances	(xylene, toluene)	Not applicable.	Not applicable.

#### **Additional information**

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**Product name Omni AE Acrylic Enamel** 

## 14. Transport information

DOT : Package sizes shipped in quantities less than the product reportable quantity are not subject to the

RQ (reportable quantity) transportation requirements.

IMDG : None identified.IATA : None 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.

## Section 15. Regulatory information

#### **United States**

United States inventory (TSCA 8b): All components are listed or exempted.

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

Z-ethoxyethyl acetate2-ethoxyethanolListed

**SARA 302/304** 

SARA 304 RQ : Not applicable.

Composition/information on ingredients

No products were found.

**SARA 311/312** 

Classification : Fire hazard

Immediate (acute) health hazard Delayed (chronic) health hazard

#### **Composition/information on ingredients**

Name	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
xylene	Yes.	No.	No.	Yes.	Yes.
toluene	Yes.	No.	No.	Yes.	Yes.
titanium dioxide	No.	No.	No.	No.	Yes.
n-butyl acetate	Yes.	No.	No.	Yes.	No.
heptan-2-one	Yes.	No.	No.	Yes.	No.
2-methoxy-1-methylethyl acetate	Yes.	No.	No.	No.	No.
Naphtha (petroleum), heavy alkylate	Yes.	No.	No.	Yes.	No.
ethylbenzene	Yes.	No.	No.	Yes.	Yes.
aluminium powder (stabilised)	Yes.	No.	No.	No.	No.
ethyl 3-ethoxypropionate	Yes.	No.	No.	Yes.	No.
Naphtha (petroleum), hydrotreated heavy	Yes.	No.	No.	Yes.	No.
Stoddard solvent	Yes.	No.	No.	Yes.	Yes.
acetone	Yes.	No.	No.	Yes.	No.
pentan-2-one	Yes.	No.	No.	Yes.	No.
butanone	Yes.	No.	No.	Yes.	No.
carbon black, respirable powder	Yes.	No.	No.	No.	Yes.

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## **Section 15. Regulatory information**

Solvent naphtha (petroleum), light aromatic	Yes.	No.	No.	Yes.	No.	
[1,3,8,16,18,24-hexabromo-2,4,9,10,	Yes.	No.	No.	Yes.	No.	
11,15,17,22,23,25-decachloro-29H, 31H-phthalocyaninato(2-)-N29,N30,						
N31,N32]copper						
[1-[[(2-hydroxyphenyl)imino]methyl]	Yes.	No.	No.	Yes.	No.	
-2-naphtholato(2-)-N,O,O']copper						
2-butanone oxime	Yes.	No.	No.	Yes.	Yes.	
4-methylpentan-2-one	Yes.	No.	No.	Yes.	Yes.	
[N,N,N',N',N",N"-hexaethyl-29H,31H-	Yes.	No.	No.	Yes.	No.	
phthalocyaninetrimethylaminato(2-)-						
N29,N30,N31,N32]copper						

#### **SARA 313**

	<u>Chemical name</u>	CAS number	<b>Concentration</b>
Supplier notification	: <b>x</b> ylene	1330-20-7	40 - 70
	toluene	108-88-3	30 - 60
	ethylbenzene	100-41-4	10 - 30
	Aluminium powder (stabilized)	7429-90-5	3 - 7
	[1-[[(2-hydroxyphenyl)imino]methyl]-2-naphtholato (2-)-N,O,O']copper	15680-42-9	0.5 - 1.5

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

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 and birth defects or other reproductive harm.

## **Section 16. Other information**

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

Health: 3 \* Flammability: 3 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 Although HMIS® ratings are not required on SDSs 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: 3 Instability: 1

Date of previous issue : 4/25/2016

Organization that prepared : EHS

the MSDS

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**Product name Omni AE Acrylic Enamel** 

## **Section 16. Other information**

Key to abbreviations

: ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

#### ▼ 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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