SAFETY DATA SHEET



Date of issue/Date of revision 28 April 2016 Version 6

Section 1. Identification		
Product name	: ACRYLIC MODIFIED ALKYD ENAMEL	
Product code	: ALK-200M-5	
Other means of identification	: Not available.	
Product type	: Liquid.	
Relevant identified uses of	of the substance or mixture and uses advised against	
Product use	: Industrial applications.	
Use of the substance/ mixture	: Coating.	
Uses advised against	: Not applicable.	
Manufacturer	: PPG Industries, Inc. One PPG Place,	
Emergency telephone number	Pittsburgh, PA 15272 : (412) 434-4515 (U.S.) (514) 645-1320 (Canada) 01-800-00-21-400 (Mexico)	

Technical Phone Number : 1-800-647-6050

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	 MMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1A TOXIC TO REPRODUCTION (Fertility) - 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: 39.9%

Product name ACRYLIC MODIFIED ALKYD ENAMEL

Section 2. Hazards identification

GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	 Highly flammable liquid and vapor. Harmful if inhaled. Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction. May cause cancer. Suspected of damaging fertility or the unborn child. 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. Contaminated work clothing must not be allowed out of the workplace.
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. Wash contaminated clothing before reuse. If skin irritation or rash 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	: Store locked up. Store in a well-ventilated place. Keep cool.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	: 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. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated.
Hazards not otherwise classified	: Prolonged or repeated contact may dry skin and cause irritation.

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Product name

: ACRYLIC MODIFIED ALKYD ENAMEL

Ingredient name	%	CAS number
xylene	≥20 - ≤50	1330-20-7
n-butyl acetate	≥10 - ≤20	123-86-4
acetone	≥10 - ≤20	67-64-1
titanium dioxide	≥10 - ≤20	13463-67-7
butanone	≥10 - ≤20	78-93-3
heptan-2-one	≥5.0 - ≤10	110-43-0
ethylbenzene	≥5.0 - ≤10	100-41-4
Solvent naphtha (petroleum), light aromatic	≥5.0 - ≤10	64742-95-6
2-butoxyethanol	≥5.0 - ≤10	111-76-2
4,4'-[(3,3'-dichloro[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[2,4-dihydro-5-methyl-2-	≥1.0 - ≤5.0	15793-73-4
(p-tolyl)-3H-pyrazol-3-one]		
carbon black, respirable powder	≥1.0 - ≤5.0	1333-86-4
1,2,4-trimethylbenzene	≥1.0 - ≤5.0	95-63-6
toluene	≥1.0 - ≤5.0	108-88-3
Stoddard solvent	≥1.0 - ≤5.0	8052-41-3
Solvent naphtha (petroleum), heavy arom.	≥1.0 - ≤3.3	64742-94-5
zinc sulphide	≥1.0 - ≤5.0	1314-98-3
neodecanoic acid, cobalt salt	<1.0	27253-31-2
2-butanone oxime	<1.0	96-29-7
naphthalene	<1.0	91-20-3
cumene	<1.0	98-82-8

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

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.
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.
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.

Product name ACRYLIC MODIFIED ALKYD ENAMEL

Section 4. First aid measures

Most important symptoms/effects, acute and delayed			
Potential acute health effects			
Eye contact	: Causes serious eye irritation.		
Inhalation	: Harmful if inhaled. 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. May cause an allergic skin reaction.		
Ingestion	: Can cause central nervous system (CNS) depression.		
<u>Over-exposure signs/sym</u>	<u>otoms</u>		
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 me	dical 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.		
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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.		

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , 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. Runoff to sewer may create fire or explosion hazard. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
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, protect	tiv	e 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 non-emergency personnel".
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

Product name ACRYLIC MODIFIED ALKYD ENAMEL

Section 6. Accidental release measures

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	1
Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. 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 Advice on general occupational hygiene	 Ingestion of product or cured coating may be harmful. 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	: 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
<i>k</i> ylene	ACGIH TLV (United States, 3/2015).
	STEL: 651 mg/m ³ 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 434 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
	OSHA PEL (United States, 2/2013).
	TWA: 435 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
-butyl acetate	ACGIH TLV (United States, 3/2015).
	STEL: 200 ppm 15 minutes.
	TWA: 150 ppm 8 hours.
	OSHA PEL (United States, 2/2013).
	TWA: 710 mg/m ³ 8 hours.
	TWA: 150 ppm 8 hours.
icetone	ACGIH TLV (United States, 3/2015).
	STEL: 500 ppm 15 minutes.
	TWA: 250 ppm 8 hours.
	OSHA PEL (United States, 2/2013).
	TWA: 2400 mg/m ³ 8 hours.
	TWA: 1000 ppm 8 hours.
tanium dioxide	OSHA PEL (United States, 2/2013).
	TWA: 15 mg/m ³ 8 hours. Form: Total dust
	ACGIH TLV (United States, 3/2015).
	TWA: 10 mg/m ³ 8 hours.
utanone	ACGIH TLV (United States, 3/2015).
	STEL: 885 mg/m ³ 15 minutes.
	STEL: 300 ppm 15 minutes.
	TWA: 590 mg/m ³ 8 hours.
	TWA: 200 ppm 8 hours.
	OSHA PEL (United States, 2/2013).
	TWA: 590 mg/m ³ 8 hours.
	TWA: 200 ppm 8 hours.
eptan-2-one	ACGIH TLV (United States, 3/2015).
	TWA: 233 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	OSHA PEL (United States, 2/2013).
	TWA: 465 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
thylbenzene	ACGIH TLV (United States, 3/2015).
,	TWA: 20 ppm 8 hours.
	OSHA PEL (United States, 2/2013).
	TWA: 435 mg/m ³ 8 hours.
	TWA: 433 mg/m 8 hours.
Solvent naphtha (petroleum), light aromatic	None.
2-butoxyethanol	ACGIH TLV (United States, 3/2015).
	TWA: 20 ppm 8 hours.
	OSHA PEL (United States, 2/2013).
	Absorbed through skin.

TWA: 240 mg/m³ 8 hours.

Product name ACRYLIC MODIFIED ALKYD ENAMEL

Section 8. Exposure controls/personal protection

Z = OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances	
OSHA = Occupational Safety and Health Administration. R = Respirable	TLV = Threshold Limit Value TWA = Time Weighted Average
F = Fume IPEL = Internal Permissible Exposure Limit	STEL = Short term Exposure limit values TD = Total dust
C = Ceiling Limit	SS = Skin sensitization
ACGIH = American Conference of Governmental Industrial Hygienists.	SR = Respiratory sensitization
A = Acceptable Maximum Peak	S = Potential skin absorption
Key to abbreviations	· ·
	TWA: 50 ppm 8 hours.
	TWA: 245 mg/m ³ 8 hours.
	Absorbed through skin.
	OSHA PEL (United States, 2/2013).
	TWA: 50 ppm 8 hours.
cumene	ACGIH TLV (United States, 3/2015).
	TWA: 10 ppm 8 hours.
	TWA: 50 mg/m ³ 8 hours.
	OSHA PEL (United States, 2/2013).
	TWA: 10 ppm 8 hours.
	TWA: 52 mg/m ³ 8 hours.
	Absorbed through skin.
Indentralence	
naphthalene	ACGIH TLV (United States, 3/2015).
	STEL: 9 ppm
	TWA: 3 ppm
2-butanone oxime	IPEL (PPG).
	TWA: 0.02 mg/m ³ , (as Co) 8 hours.
neodecanoic acid, cobalt salt	ACGIH TLV (United States, 3/2015).
zinc sulphide	None.
Solvent naphtha (petroleum), heavy arom.	None.
	TWA: 500 ppm 8 hours.
	TWA: 2900 mg/m ³ 8 hours.
	OSHA PEL (United States, 2/2013).
	TWA: 100 ppm 8 hours.
	TWA: 525 mg/m ³ 8 hours.
Stoddard solvent	ACGIH TLV (United States, 3/2015).
	TWA: 20 ppm 8 hours.
	ACGIH TLV (United States, 3/2015).
	TWA: 200 ppm 8 hours.
	CEIL: 300 ppm
	AMP: 500 ppm 10 minutes.
toluene	OSHA PEL Z2 (United States, 2/2013).
	TWA: 25 ppm 8 hours.
	TWA: 123 mg/m ³ 8 hours.
1,2,4-trimethylbenzene	ACGIH TLV (United States, 3/2015).
1.0.4 trimethyllhenzene	TWA: 3.5 mg/m ³ 8 hours.
	OSHA PEL (United States, 2/2013).
	fraction
	TWA: 3 mg/m ³ 8 hours. Form: Inhalable
carbon black, respirable powder	ACGIH TLV (United States, 3/2015).
5-methyl-2-(p-tolyl)-3H-pyrazol-3-one]	
4,4'-[(3,3'-dichloro[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[2,4-dihydro-	None.
	TWA: 50 ppm 8 hours.

Product name ACRYLIC MODIFIED ALKYD ENAMEL

Section 8. Exposure controls/personal protection

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.
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.
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 measur	<u>es</u>	
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.
Eye/face protection <u>Skin protection</u>	1	Chemical splash goggles.
Hand protection	:	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	4	butyl rubber
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 anti-static 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.

Product name ACRYLIC MODIFIED ALKYD ENAMEL

Section 9. Physical and chemical properties

Appearance

: Liquid.
: Not available.
: >37.78°C (>100°F)
: Closed cup: -15.56°C (4°F)
: Not available.
: 1.13
: 9.43
: Insoluble in the following materials: cold water.
: Not available.
: Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)
: 66% (v/v), 58% (w/w)
: 41.86

Section 10. Stability and reactivity

	United States Page: 10/19
Hazardous decomposition products	: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Chemical stability	: The product is stable.
Reactivity	: No specific test data related to reactivity available for this product or its ingredients.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
x 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	-
n-butyl acetate	LC50 Inhalation Vapor	Rat	>21.1 mg/l	4 hours
	LC50 Inhalation Vapor	Rat	2000 ppm	4 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	10.768 g/kg	
acetone	LC50 Inhalation Vapor	Rat	76000 mg/m ³	- 4 hours
acelone		Rabbit		4 110015
	LD50 Dermal		20 g/kg	-
	LD50 Oral	Rat	1.8 g/kg	-
titanium dioxide	LD50 Oral	Rat	>11 g/kg	-
butanone	LC50 Inhalation Vapor	Rat	11243 ppm	4 hours
	LD50 Dermal	Rabbit	6480 mg/kg	-
	LD50 Oral	Rat	2737 mg/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	-
ethylbenzene	LC50 Inhalation Vapor	Rat	4000 ppm	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	
Solvent naphtha (petroleum),	LD50 Dermal	Rabbit	3.48 g/kg	
	LD50 Definal	ιταυριί	5.40 g/kg	-
light aromatic		Det	0.400	
	LD50 Oral	Rat	8400 mg/kg	-
2-butoxyethanol	LD50 Dermal	Rabbit	1060 mg/kg	-
	LD50 Oral	Rat	470 mg/kg	-
4,4'-[(3,3'-dichloro[1,1'-	LD50 Oral	Rat	15 g/kg	-
biphenyl]-4,4'-diyl)bis(azo)]bis				
[2,4-dihydro-5-methyl-2-(p-				
tolyl)-3H-pyrazol-3-one]				
carbon black, respirable	LD50 Dermal	Rabbit	>3 g/kg	-
powder			- 33	
pondoi	LD50 Oral	Rat	>15400 mg/kg	
1,2,4-trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m ³	4 hours
1,2,4-0111100113001120110	LD50 Oral	Rat		4 110015
taluana			5 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	-
	LD50 Oral	Rat	636 mg/kg	-
Stoddard solvent	LD50 Oral	Rat	>5 g/kg	-
Solvent naphtha (petroleum),	LD50 Dermal	Rabbit	>1.693 g/kg	-
heavy arom.				
-	LD50 Oral	Rat	3.2 g/kg	-
2-butanone oxime	LD50 Oral	Rat	930 mg/kg	-
naphthalene	LD50 Dermal	Rabbit	>20 g/kg	_
	LD50 Oral	Rat	490 mg/kg	_
cumene	LC50 Inhalation Vapor	Rat	39000 mg/m ³	4 hours
ounione	LD50 Dermal	Rabbit	12.3 g/kg	
		ιταυυιι	12.5 y/ky	-
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			United States	Page: 11/19

Version 6

Product name ACRYLIC MODIFIED ALKYD ENAMEL

Section 11. Toxicological information

	LD50 Oral			Rat	14	400 mg/kg -	
Conclusion/Summary rritation/Corrosion	: There ar	e no data a	vailable on th	e mixture	itself.		
Product/ingredient name	Result		Spec	ies	Score	Exposure	Observation
ylene	Skin - Moo	nt Rabb	it	-	24 hours 500 mg	-	
Conclusion/Summary			·			·	·
Skin	: There ar	e no data a	vailable on th	e mixture	itself.		
Eyes	: There ar	e no data a	vailable on th	e mixture	itself.		
Respiratory	: There ar	e no data a	vailable on th	e mixture	itself.		
Sensitization							
Conclusion/Summary							
Skin	: There ar	e no data a	vailable on th	e mixture	itself.		
Respiratory	: There ar	e no data a	vailable on th	e mixture	itself.		
Nutagenicity							
Conclusion/Summary	: There ar	e no data a	vailable on th	e mixture	itself.		
Carcinogenicity				•			
Conclusion/Summary	• There ar	e no data a	vailable on th	e mixture	itself		
Classification	. more ar						
	OSHA	IARC	NTP				
Product/ingredient name	USHA		NIP				
xylene	-	3	-				
titanium dioxide ethylbenzene	-	2B 2B	-				
2-butoxyethanol	-	3	-				
4,4'-[(3,3'-dichloro[1,1'-							
biphenyl]-4,4'-diyl)bis(azo)]bi	s	· · · · · · · · · · · · · · · · · · ·					
[2,4-dihydro-5-methyl-2-(p-	0						
tolyl)-3H-pyrazol-3-one]							
carbon black, respirable	-	2B	-				
powder							
toluene	-	3	-				
neodecanoic acid, cobalt sal	t -	2B	-				
naphthalene	-	2B				human carcinoger	
cumene	-	2B	Reasonably	anticipate	ed to be a	human carcinoger	า.

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 n

: There are no data available on the mixture itself.

Teratogenicity

Conclusion/Summary : There are no data available on the mixture itself. <u>Specific target organ toxicity (single exposure)</u>

Section 11. Toxicological information

Name	Category
xylene	Category 3
n-butyl acetate	Category 3
acetone	Category 3
butanone	Category 3
Solvent naphtha (petroleum), light aromatic	Category 3
1,2,4-trimethylbenzene	Category 3
toluene	Category 3
Solvent naphtha (petroleum), heavy arom.	Category 3
cumene	Category 3

Specific target organ toxicity (repeated exposure)

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

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, spleen, lymphatic system, peripheral nervous system, gastrointestinal tract, upper respiratory tract, skin, bone marrow, ears, testes.

Aspiration hazard

Name	Result
xylene	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1
Solvent naphtha (petroleum), light aromatic	ASPIRATION HAZARD - Category 1
toluene	ASPIRATION HAZARD - Category 1
Stoddard solvent	ASPIRATION HAZARD - Category 1
Solvent naphtha (petroleum), heavy arom.	ASPIRATION HAZARD - Category 1
cumene	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

Potential acute health effects

Eye contact	: Causes serious eye irritation.
Inhalation	 Harmful if inhaled. 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. May cause an allergic skin reaction.
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

Product name ACRYLIC MODIFIED ALKYD ENAMEL

Section 11. Toxicological information

Inhalation Skin contact		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 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 and also chronic effects from short and long term exposure
Conclusion/Summary		There are no data available on the mixture itself. 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, fatigue, 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	1	There are no data available on the mixture itself.
Potential immediate effects	1	There are no data available on the mixture itself.
Potential delayed effects		There are no data available on the mixture itself.
Potential chronic health effe		•
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. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
		United States Page: 14/19

Date of issue 28 April 2016

Product name ACRYLIC MODIFIED ALKYD ENAMEL

Section 11. Toxicological information

Carcinogenicity	: May cause 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

: Suspected of damaging fertility.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value	
Oral	4454.2 mg/kg	
Dermal	4671.8 mg/kg	
Inhalation (gases)	18017.1 ppm	
Inhalation (vapors)	35.86 mg/l	
Inhalation (dusts and mists)	4.8 mg/l	

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
	3	Daphnia - Daphnia magna Fish - Lepomis macrochirus - Young of the year	48 hours 96 hours

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
x ylene	-	-	Readily
acetone	-	-	Readily
ethylbenzene	-	-	Readily
2-butoxyethanol	-	-	Readily
toluene	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
x ylene	3.16	7.4 to 18.5	low
n-butyl acetate	1.78	-	low
acetone	-0.24	3	low
butanone	0.29	-	low
heptan-2-one	1.98	-	low
ethylbenzene	3.15	79.43	low
2-butoxyethanol	0.81	-	low
1,2,4-trimethylbenzene	3.63	120.23	low
toluene	2.73	8.32	low
Stoddard solvent	3.16 to 7.06	-	high
2-butanone oxime	0.63	5.01	low
naphthalene	3.3	85.11	low
cumene	3.66	35.48	low
			United States Page: 15/19

Product name ACRYLIC MODIFIED ALKYD ENAMEL

Section 12. Ecological information

Mobility in soil

Soil/water partition coefficient (Koc)

: 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	ATA	
UN number	UN1263	UN1263	UN1263	
UN proper shipping name	PAINT	PAINT	PAINT	
Transport hazard class (es)	3	3	3	
Packing group	П	11	II	
Environmental hazards	No.	No.	No.	
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	
Product RQ (lbs)	235.78	Not applicable.	Not applicable.	
RQ substances	(xylene, ethylbenzene)	Not applicable.	Not applicable.	

Additional information

DOT	 Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.
IMDG IATA	None identified. None identified.

Date of issue 28 April 2016

Product name ACRYLIC MODIFIED ALKYD ENAMEL

14. Transport information

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) : Not determined.

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.
n-butyl acetate	Yes.	No.	No.	Yes.	No.
acetone	Yes.	No.	No.	Yes.	No.
titanium dioxide	No.	No.	No.	No.	Yes.
butanone	Yes.	No.	No.	Yes.	No.
heptan-2-one	Yes.	No.	No.	Yes.	No.
ethylbenzene	Yes.	No.	No.	Yes.	Yes.
Solvent naphtha (petroleum), light aromatic	Yes.	No.	No.	Yes.	No.
2-butoxyethanol	Yes.	No.	No.	Yes.	No.
4,4'-[(3,3'-dichloro[1,1'-biphenyl]-4,4'- diyl)bis(azo)]bis[2,4-dihydro-5-methyl- 2-(p-tolyl)-3H-pyrazol-3-one]	Yes.	No.	No.	No.	Yes.
carbon black, respirable powder	Yes.	No.	No.	No.	Yes.
1,2,4-trimethylbenzene	Yes.	No.	No.	Yes.	No.
toluene	Yes.	No.	No.	Yes.	Yes.
Stoddard solvent	Yes.	No.	No.	Yes.	Yes.
Solvent naphtha (petroleum), heavy arom.	Yes.	No.	No.	Yes.	No.
zinc sulphide	No.	No.	No.	Yes.	No.
neodecanoic acid, cobalt salt	No.	No.	No.	Yes.	Yes.
2-butanone oxime	Yes.	No.	No.	Yes.	Yes.
naphthalene	Yes.	No.	Yes.	Yes.	Yes.
cumene	Yes.	No.	No.	Yes.	Yes.

United States Page: 17/19

Product name ACRYLIC MODIFIED ALKYD ENAMEL

Section 15. Regulatory information

<u>SARA 313</u>

	Chemical name	<u>CAS number</u>	Concentration
Supplier notification	: xylene	1330-20-7	30 - 60
	ethylbenzene	100-41-4	5 - 10
	2-butoxyethanol	111-76-2	3 - 7
	1,2,4-trimethylbenzene	95-63-6	1 - 5
	toluene	108-88-3	1 - 5
	Aluminium powder (stabilized)	7429-90-5	1 - 5
	zinc sulphide	1314-98-3	0.5 - 1.5
	neodecanoic acid, cobalt salt	27253-31-2	0.1 - 1
	naphthalene	91-20-3	0.1 - 1

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 : 2 * Flammability : 3 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 Flamma	nability : 3 Instability : 0		
Date of previous issue	: 11/6/2015		
Organization that prepared the MSDS	d : EHS		
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 = Internediate 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

Date of issue 28 April 2016

Product name ACRYLIC MODIFIED ALKYD ENAMEL

Section 16. Other information

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.