# **SAFETY DATA SHEET**



Date of issue/Date of revision 1 May 2016 Version 6

Section 1. Identification	
Product name	: EPOXY F/S 3655 YELLOW
Product code	: 00338964
Other means of identification	: Not available.
Product type	: Liquid.
Relevant identified uses of	f the substance or mixture and uses advised against
Product use	: Industrial applications, Used by spraying.
Use of the substance/ mixture	: Coating.
Uses advised against	: Not applicable.
Manufacturer	: PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272
<u>Emergency telephone</u> <u>number</u>	: (412) 434-4515 (U.S.) (514) 645-1320 (Canada) 01-800-00-21-400 (Mexico)
<b>Technical Phone Number</b>	: 888-977-4762

# Section 2. Hazards identification

OSHA/HCS status	<ul> <li>This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).</li> </ul>
Classification of the substance or mixture	<ul> <li>AMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - 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 2 Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 43.3%</li> </ul>

#### GHS label elements

Product name EPOXY F/S 3655 YELLOW

# Section 2. Hazards identification

Hazard pictograms	
Signal word	: Danger
Hazard statements	<ul> <li>Flammable liquid and vapor. Harmful if inhaled. Causes serious eye damage. Causes skin irritation. May cause an allergic skin reaction. Suspected of causing cancer. May cause respiratory irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. (central nervous system (CNS), hearing organs, kidneys, liver)</li> </ul>
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. 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. Immediately call a POISON CENTER or physician.
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	: 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.

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### Section 3. Composition/information on ingredients

#### Substance/mixture

**Product name** 

: Mixture

: EPOXY F/S 3655 YELLOW

Ingredient name	%	CAS number
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[(1-methylethylidene) bis(4,1-phenyleneoxymethylene)]bis[oxirane]	≥20 - ≤50	25036-25-3
1-methoxy-2-propanol	≥10 - ≤20	107-98-2
xylene	≥10 - ≤20	1330-20-7
butan-1-ol	≥5.0 - ≤10	71-36-3
n-butyl acetate	≥1.0 - ≤5.0	123-86-4
ethylbenzene	≥1.0 - ≤5.0	100-41-4
titanium dioxide	≥1.0 - ≤5.0	13463-67-7

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	: 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.
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	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.</li> </ul>
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 damage.
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/sympton	<u>ns</u>

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# Section 4. First aid measures

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains
Indication of immediate med	dical attention and special treatment needed, if necessary
Notes to physician	<ul> <li>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.</li> </ul>
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 modia	
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	: 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. This material is toxic 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.

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# Section 5. Fire-fighting measures

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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. Do not breathe 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

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.

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### Section 7. Handling and storage

#### Precautions for safe handling

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. 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. 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.
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**

Ingredient name	Exposure limits			
henol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[ (1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane]	None.			
1-methoxy-2-propanol	ACGIH TLV (United States, 3/2015). STEL: 369 mg/m <sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes. TWA: 184 mg/m <sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. ACGIH TLV (United States, 3/2015). STEL: 651 mg/m <sup>3</sup> 15 minutes. STEL: 150 ppm 15 minutes. TWA: 434 mg/m <sup>3</sup> 8 hours.			
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# Section 8. Exposure controls/personal protection

	-
	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.
butan-1-ol	ACGIH TLV (United States, 3/2015).
	TWA: 20 ppm 8 hours.
	OSHA PEL (United States, 2/2013).
	TWA: 300 mg/m <sup>3</sup> 8 hours.
	TWA: 100 ppm 8 hours.
n-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 <sup>3</sup> 8 hours.
	TWA: 150 ppm 8 hours.
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.
titanium dioxide	OSHA PEL (United States, 2/2013).
	TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust
	ACGIH TLV (United States, 3/2015).
	TWA: 10 mg/m <sup>3</sup> 8 hours.
	TWA. To highin o hours.
Key to abbreviatio	
A = Acceptable Maximum Peak	S = Potential skin absorption
.CGIH = American Conference of Governmental Industrial Hygienists. C = Ceiling Limit	SR = Respiratory sensitization SS = Skin sensitization
F = Fume	STEL = Short term Exposure limit values

C	= Celling Limit	SS	<ul> <li>Skin sensitization</li> </ul>
F	= Fume	STEL	= Short term Exposure limi
IPEL	<ul> <li>Internal Permissible Exposure Limit</li> </ul>	TD	= Total dust
OSHA	<ul> <li>Occupational Safety and Health Administration.</li> </ul>	TLV	= Threshold Limit Value
R	= Respirable	TWA	= Time Weighted Average
7	- OCIA 20 CED 1010 1200 Cubrent 7. Tavia and Harandava Cubatanasa		

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

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

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

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# Section 8. Exposure controls/personal protection

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 Skin protection	: Chemical splash goggles and face shield.
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	: 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.

# Section 9. Physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Yellow.
Odor	: Characteristic.
Odor threshold	: Not available.
рН	: Not available.
Melting point	: Not available.
Boiling point	: >37.78°C (>100°F)
Flash point	: Closed cup: 27.78°C (82°F)
Material supports combustion.	: Yes.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Lower: 1.15% Upper: 8.63%

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# Section 9. Physical and chemical properties

Evaporation rate	: 0.67 (butyl acetate = 1)
Vapor pressure	: 1.1 kPa (8.5 mm Hg) [room temperature]
Vapor density	: Not available.
Relative density	: 1.06
Density(lbs / gal)	: 8.85
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	: 54% (v/v), 44.963% (w/w)
% Solid. (w/w)	: 55.037

# 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.
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
Hazardous decomposition products	: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

# Section 11. Toxicological information

#### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
-methoxy-2-propanol	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	5.2 g/kg	-
xylene	LC50 Inhalation Gas.	Rat	6670 ppm	4 hours
5	LC50 Inhalation Vapor	Rat	5000 ppm	4 hours
	LD50 Dermal	Rabbit	>1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
butan-1-ol	LC50 Inhalation Vapor	Rat	24000 mg/m <sup>3</sup>	4 hours
	LC50 Inhalation Vapor	Rat	8000 ppm	4 hours
	LD50 Dermal	Rabbit	3400 mg/kg	-
	LD50 Oral	Rat	790 mg/kg	-
n-butyl acetate	LC50 Inhalation Vapor	Rat	>21.1 mg/l	4 hours
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# Section 11. Toxicological information

	LC50 Inhalation Vapor LD50 Dermal LD50 Oral		Rabbit		>17600 mg/kg -		4 hours -	
ethylbenzene	LC50 Inhalation Vapor LC50 Dermal		Rat Rat Rabbit		10.768 g/kg - 4000 ppm 4 17.8 g/kg -		- 4 hours -	
	LD50 Oral			Rat		3.5 g		-
titanium dioxide	LD50 Oral			>11 g/kg		-		
Conclusion/Summary rritation/Corrosion	: There are	e no data ava	ailable on th	ne mixture	e itself.			
Product/ingredient name	Result		Spec	ies	Score		Exposure	Observation
xylene	Skin - Mod	erate irritant	Rabb	oit	-		24 hours 50 mg	- 00
Conclusion/Summary					*		•	
Skin	: There are	e no data ava	ailable on th	ne mixture	e itself.			
Eyes	: There are	e no data ava	ailable on th	ne mixture	e itself.			
Respiratory	: There are	e no data ava	ailabla an th					
				ne mixture	e itseit.			
Sensitization				ie mixture	e itseit.			
				ie mixture	e itseit.			
Sensitization		e no data ava						
Sensitization Conclusion/Summary	: There are		ailable on th	ne mixture	e itself.			
<u>Sensitization</u> <u>Conclusion/Summary</u> Skin	: There are	e no data ava	ailable on th	ne mixture	e itself.			
<u>Sensitization</u> <u>Conclusion/Summary</u> Skin Respiratory	: There are : There are	e no data ava	ailable on th ailable on th	ne mixture ne mixture	e itself. e itself.			
<u>Sensitization</u> <u>Conclusion/Summary</u> Skin Respiratory <u>Mutagenicity</u>	: There are : There are	e no data ava e no data ava	ailable on th ailable on th	ne mixture ne mixture	e itself. e itself.			
Sensitization Conclusion/Summary Skin Respiratory <u>Mutagenicity</u> Conclusion/Summary	: There are : There are : There are	e no data ava e no data ava	ailable on th ailable on th ailable on th	ne mixture ne mixture ne mixture	e itself. e itself. e itself.			
Sensitization Conclusion/Summary Skin Respiratory <u>Mutagenicity</u> Conclusion/Summary Carcinogenicity	: There are : There are : There are	e no data ava e no data ava e no data ava	ailable on th ailable on th ailable on th	ne mixture ne mixture ne mixture	e itself. e itself. e itself.			
Sensitization Conclusion/Summary Skin Respiratory <u>Mutagenicity</u> Conclusion/Summary Carcinogenicity Conclusion/Summary	: There are : There are : There are	e no data ava e no data ava e no data ava e no data ava	ailable on th ailable on th ailable on th	ne mixture ne mixture ne mixture	e itself. e itself. e itself.			
Sensitization Conclusion/Summary Skin Respiratory Mutagenicity Conclusion/Summary Carcinogenicity Conclusion/Summary Classification Product/ingredient name xylene	: There are : There are : There are : There are	e no data ava e no data ava e no data ava e no data ava <b>IARC I</b> 3 -	ailable on th ailable on th ailable on th ailable on th	ne mixture ne mixture ne mixture	e itself. e itself. e itself.			
Sensitization Conclusion/Summary Skin Respiratory Mutagenicity Conclusion/Summary Carcinogenicity Conclusion/Summary Classification Product/ingredient name	: There are : There are : There are : There are	e no data ava e no data ava e no data ava e no data ava IARC I	ailable on th ailable on th ailable on th ailable on th	ne mixture ne mixture ne mixture	e itself. e itself. e itself.			

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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### Section 11. Toxicological information

Name	Category
1-methoxy-2-propanol	Category 3
xylene	Category 3
butan-1-ol	Category 3
n-butyl acetate	Category 3

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

Name	Category
1-methoxy-2-propanol	Category 2
xylene	Category 2
ethylbenzene	Category 2

#### **Target organs**

: Contains material which causes damage to the following organs: brain. Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, liver, heart, gastrointestinal tract, upper respiratory tract, skin, central nervous system (CNS), ears, eye, lens or cornea.

#### Aspiration hazard

Name	Result
	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

#### Information on the likely routes of exposure

#### Potential acute health effects

Causes serious eye damage.
Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Can cause central nervous system (CNS) depression.
<u>ns</u>
Adverse symptoms may include the following: pain watering redness
Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur

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# Section 11. Toxicological information

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Ingestion	Adverse symptoms may include the following: stomach pains	
Delayed and immediate effect	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 vap concentrations in excess of the stated occupational exposure limit may result in adver- health effects such as mucous membrane and respiratory system irritation and adver- effects on the kidneys, liver and central nervous system. Symptoms and signs includ- 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 chron effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.	rse ise le s, i g.
<u>Short term exposure</u>		
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 effects	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	May cause 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.	
Carcinogenicity	Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.	
Mutagenicity	No known significant effects or critical hazards.	
Teratogenicity	No known significant effects or critical hazards.	
<b>Developmental effects</b>	No known significant effects or critical hazards.	
Fertility effects	No known significant effects or critical hazards.	
Numerical measures of toxic		

#### Acute toxicity estimates

Route	ATE value	
Oral	4808.1 mg/kg	
Dermal	3639.4 mg/kg	
Inhalation (gases)	18016.5 ppm	
Inhalation (vapors)	32.58 mg/l	
Inhalation (dusts and mists)	4.443 mg/l	

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### Section 12. Ecological information

#### <u>Toxicity</u>

Product/ingredient name	Result	Species	Exposure
1-methoxy-2-propanol	Acute LC50 23300 mg/l	Daphnia	48 hours
	Acute LC50 >4500 mg/l Fresh water	Fish	96 hours
ethylbenzene	Acute LC50 150 to 200 mg/l Fresh water	Fish - Lepomis macrochirus - Young of the year	96 hours
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours

#### Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene ethylbenzene	-	-	Readily Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
<b>x</b> ylene	3.16	7.4 to 18.5	low
butan-1-ol	0.88	-	low
n-butyl acetate	1.78	-	low
ethylbenzene	3.15	79.43	low

#### 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

Product name EPOXY F/S 3655 YELLOW

### 14. Transport information

	DOT	IMDG	ΙΑΤΑ	
UN number	UN1263	UN1263	UN1263	
UN proper shipping name	PAINT	PAINT	PAINT	
Transport hazard class (es)	3	3	3	
Packing group	III	Ш	111	
Environmental hazards	No.	Yes.	No.	
Marine pollutant substances	Not applicable.	(Phenol, 4,4'- (1-methylethylidene)bis-, polymer with 2,2'-[ (1-methylethylidene)bis(4, 1-phenyleneoxymethylene)]bis [oxirane])	Not applicable.	
Product RQ (lbs)	653.54	Not applicable.	Not applicable.	
RQ substances	(xylene, ethylbenzene)	Not applicable.	Not applicable.	

#### **Additional information**

DOT	<ul> <li>Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.</li> </ul>
IMDG	: The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
IATA	: The environmentally hazardous substance mark may appear if required by other transportation regulations.

# 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.

SARA 302/304 SARA 304 RQ

: Not applicable.

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

No products were found.

#### SARA 311/312

Classification	:	ļ
		I

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

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

#### Product name EPOXY F/S 3655 YELLOW

# Section 15. Regulatory information

Name		Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard	
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[(1-methylethylidene) bis(4,1-phenyleneoxymethylene)]bis [oxirane]	Yes.	No.	No.	Yes.	No.	
1-methoxy-2-propanol	Yes.	No.	No.	Yes.	Yes.	ł
xylene	Yes.	No.	No.	Yes.	Yes.	ł
butan-1-ol	Yes.	No.	No.	Yes.	No.	ł
n-butyl acetate	Yes.	No.	No.	Yes.	No.	ł
ethylbenzene	Yes.	No.	No.	Yes.	Yes.	ł
titanium dioxide	No.	No.	No.	No.	Yes.	1

SARA 313

#### Chemical name : xylene

butan-1-ol ethylbenzene

<u>CAS number</u>	<b>Concentration</b>
1330-20-7	10 - 30
71-36-3	3 - 7
100-41-4	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

**Supplier notification** 

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

### Section 16. Other information

Hazardous	Material	Information	System	(U.S.A.)	
lazaruous	material	mormation	System	(U.U.A.)	

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Health : 3 * Flammability : 3 Physical hazards : 0 (*) - Chronic effects
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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 : 3Flammability : 3Instability : 0Date of previous issue: 11/25/2015Organization that prepared: EHSthe MSDS

Product name EPOXY F/S 3655 YELLOW

### 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.