SAFETY DATA SHEET



Date of issue/Date of revision 24 April 2016 Version 3

Section 1. Identification		
Product name	: FURFURYL ALCOHOL	
Product code	: SAK-665. (F1)	
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	: 1-800-441-9695 (8:00 am to 5:00 pm 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	 AMMABLE LIQUIDS - Category 4 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

GHS label elements

Product name FURFURYL ALCOHOL

Section 2. Hazards identification

Hazard pictograms	
Signal word	: Danger
Hazard statements	 Combustible liquid. Fatal if inhaled. Harmful if swallowed or in contact with skin. Causes serious eye irritation. Suspected of causing cancer. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure.
Precautionary statement	<u>is</u>
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. Wear respiratory protection. Keep away from flames and hot surfaces No smoking. 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. Immediately call a POISON CENTER or physician. IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing and wash it before reuse. 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	: 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 Product name : Mixture

: FURFURYL ALCOHOL

Ingredient name	%	CAS number
furfuryl alcohol	≥90	98-00-0

SUB codes represent substances without registered CAS Numbers.

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Section 3. Composition/information on ingredients

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.

Most important symptoms/effects, acute and delayed

Potential acute health effect	ts			
Eye contact	:	Causes serious eye irritation.		
Inhalation	:	Fatal if inhaled. May cause respiratory irritation.		
Skin contact	1	Harmful in contact with skin. Defatting to the skin. May cause skin dryness and irritation.		
Ingestion	:	Harmful if swallowed.		
Over-exposure signs/symp	ton	<u>15</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		
Skin contact	:	Adverse symptoms may include the following: irritation dryness cracking		
Ingestion	:	No specific data.		
Indication of immediate med	lica	I attention and special treatment needed, if necessary		
Notes to physician	:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.		
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. 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	: Combustible liquid. 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
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).

Product name FURFURYL ALCOHOL

Section 6. Accidental release measures

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.
	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). 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. 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.
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Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name		Exposure limits
furfuryl alcohol		ACGIH TLV (United States, 3/2015).
		Absorbed through skin.
		STEL: 60 mg/m ³ 15 minutes.
		STEL: 15 ppm 15 minutes.
		TWA: 40 mg/m ³ 8 hours.
		TWA: 10 ppm 8 hours.
		OSHA PEL (United States, 2/2013).
		TWA: 200 mg/m ³ 8 hours.
		TWA: 50 ppm 8 hours.
	Kan ta akkan dalam	
A = Acceptable Maximum Pea	Key to abbreviations	S = Potential skin absorption
	overnmental Industrial Hygienists.	SR = Respiratory sensitization
C = Ceiling Limit		SS = Skin sensitization
F = Fume		STEL = Short term Exposure limit values
IPEL = Internal Permissible Expos		TD = Total dust
OSHA = Occupational Safety and H R = Respirable	lealth Administration.	TLV = Threshold Limit Value TWA = Time Weighted Average
•	Subpart Z - Toxic and Hazardous Substances	TWA = Time Weighted Average
consult local authorities for ac		with exposure limits, personal, workplace
	protective equipment. Reference sl	sures and/or the necessity to use respiratory hould be made to appropriate monitoring standards. uments for methods for the determination of required.
ontrols	other engineering controls to keep v recommended or statutory limits. T	Use process enclosures, local exhaust ventilation or worker exposure to airborne contaminants below any he engineering controls also need to keep gas, any lower explosive limits. Use explosion-proof
 Emissions from ventilation or work process equipment should be checked they comply with the requirements of environmental protection legislation. cases, fume scrubbers, filters or engineering modifications to the process will be necessary to reduce emissions to acceptable levels. 		of environmental protection legislation. In some gineering modifications to the process equipment
ndividual protection measures	<u>8</u>	
Hygiene measures	eating, smoking and using the lavat Appropriate techniques should be u	broughly after handling chemical products, before ory and at the end of the working period. sed to remove potentially contaminated clothing. reusing. Ensure that eyewash stations and safety n location.
Eye/face protection Skin protection	Chemical splash goggles.	

Product name FURFURYL ALCOHOL

Section 8. Exposure controls/personal protection

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.
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.
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

Appearance		
Physical state	1	Liquid.
Color	1	Not available.
Odor	:	Not available.
Odor threshold	:	Not available.
рН	1	Not available.
Melting point	4	Not available.
Boiling point	1	>37.78°C (>100°F)
Flash point	:	Open cup: 76.67°C (170°F)
Auto-ignition temperature	:	Not available.
Decomposition temperature	1	Not available.
Flammability (solid, gas)	:	Not available.
Lower and upper explosive	:	Not available.
(flammable) limits		
Evaporation rate	4	0 (butyl acetate = 1)
Vapor pressure	1	0 kPa (0 mm Hg) [room temperature]
Vapor density	1	Not available.
Relative density	1	1.13
Density(lbs / gal)	:	9.43
Solubility	:	Insoluble in the following materials: cold water.
Partition coefficient: n- octanol/water	:	Not available.
Viscosity	:	Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)
Volatility	:	100% (v/v), 100% (w/w)
% Solid. (w/w)	÷	0

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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	
rfuryl alcohol	LC50 Inhalation Vapor LC50 Inhalation Vapor LD50 Dermal LD50 Dermal LD50 Oral	Rat Rat Rabbit Rat Rat	934 mg/m ³ 233 ppm 400 mg/kg 3825 mg/kg 0.132 g/kg	4 hours 4 hours - - -	
Conclusion/Summary	: There are no data available	on the mixture itse	elf.		
Irritation/Corrosion					
Conclusion/Summary					
Skin	: There are no data available	on the mixture itse	elf.		
Eyes	: There are no data available	: There are no data available on the mixture itself.			
Respiratory	: There are no data available	: There are no data available on the mixture itself.			
<u>Sensitization</u>					
Conclusion/Summary					
Skin	: There are no data available	on the mixture itse	elf.		
Respiratory	: There are no data available	on the mixture itse	elf.		
<u>Mutagenicity</u>					
Conclusion/Summary	: There are no data available	on the mixture itse	elf.		
Carcinogenicity					
Conclusion/Summary	: There are no data available	on the mixture itse	elf.		
Reproductive toxicity					
Conclusion/Summary	: There are no data available	on the mixture itsel	lf.		
Teratogenicity					

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Section 11. Toxicological information

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

Specific target organ toxicity (single exposure)

Name	Category
furfuryl alcohol	Category 3

Specific target organ toxicity (repeated exposure)

Name	Category
furfuryl alcohol	Category 2

Target organs

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

Aspiration hazard

Not available.

Information on the likely routes of exposure

Potential acute health eff	ects
Eye contact	: Causes serious eye irritation.
Inhalation	: Fatal if inhaled. May cause respiratory irritation.
Skin contact	 Harmful in contact with skin. Defatting to the skin. May cause skin dryness and irritation.
Ingestion	: Harmful if swallowed.
<u>Over-exposure signs/syn</u>	nptoms
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: irritation dryness cracking
Ingestion	: No specific data.
Delayed and immediate ef	fects 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

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Section 11. Toxicological information

effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

<u>Short term exposure</u>	
Potential immediate effects	: There are no data available on the mixture itself.
Potential delayed effects	: There are no data available on the mixture itself.
<u>Long term exposure</u>	
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	ects
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.
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.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.
Numerical measures of toxic	<u>ity</u>
Acute toxicity estimates	

Route	ATE value
Øral	500 mg/kg
Dermal	1100 mg/kg
Inhalation (gases)	700 ppm
Inhalation (vapors)	0.934 mg/l
Inhalation (dusts and mists)	0.5 mg/l

Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
furfuryl alcohol	0.28	-	low

Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	

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Section 12. Ecological information

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	ΙΑΤΑ		
UN number	UN2874	UN2874	UN2874		
UN proper shipping name	FURFURYL ALCOHOL	FURFURYL ALCOHOL	FURFURYL ALCOHOL		
Transport hazard class (es)	6.1	6.1	6.1		
Packing group	Ш	III	111		
Environmental hazards Marine pollutant substances	No. Not applicable.	No. Not applicable.	No. Not applicable.		

Tropoport information

Additional information

- DOT : None identified. IMDG : None identified. ΙΑΤΑ
 - : 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.

Product name FURFURYL ALCOHOL

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

: Fire hazard Immediate (acute) health hazard

Delayed (chronic) health hazard

Composition/information on ingredients

Name	hazard	Sudden release of pressure		(acute) health	Delayed (chronic) health hazard
fữrfuryl alcohol	Yes.	No.	No.	Yes.	Yes.

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

Section 16. Other information

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

Health : 3 * Flammability : 2 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 MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

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

Health : 3 Flammat Date of previous issue Organization that prepared the MSDS	bility : 2 Instability : 1 : 8/25/2015 : 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 = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = Iogarithm 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

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Product name FURFURYL ALCOHOL

Section 16. Other information

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.