according to the OSHA Hazard Communication Standard



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SECTION 1. IDENTIFICATION

Product name	:	WINGSTAY S P POWDER			
Manufacturer or supplier's o	deta	ails			
Company name of supplier	:	Synthomer Inc.			
Address	:	25435 Harvard Road Beachwood Ohio 44122 USA			
Telephone	:	+1 216-682-7000			
E-mail address of person responsible for the SDS	:	regulatoryaffairs@synthomer.com			
Emergency telephone	:	United States Local: +1 (703) 741-5970 // Chemtrec Toll Free: +1 (800) 424-9300 // Chemtrec International: +1 (703) 527- 3887			
Recommended use of the chemical and restrictions on use					

Restrictions on use : For industrial use only.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)				
Skin irritation	:	Category 2		
Skin sensitization	:	Category 1		
GHS label elements				
Hazard pictograms	:			
Signal Word	:	Warning		
Hazard Statements	:	H315 Causes skin irritation. H317 May cause an allergic skin reaction.		
Precautionary Statements	:	Prevention: P261 Avoid breathing dust.		

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P264 Wash skin thoroughly after handling. P272 Contaminated work clothing must not be allowed out of the workplace.

P280 Wear protective gloves.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P362 Take off contaminated clothing and wash before reuse.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Phenol, styrenated	61788-44-1	>= 50 - < 70
Silica gel, pptd., crystfree	112926-00-8	>= 30 - < 50
phenol	108-95-2	>= 0.1 - < 1

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice	:	Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. Do not leave the victim unattended.
If inhaled	:	If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	:	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.
In case of eye contact	:	Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing.

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			If eye irritation persists, consult a specialist.
lf swa	allowed	:	Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
	important symptoms effects, both acute and red	:	Causes skin irritation. May cause an allergic skin reaction.
Notes	s to physician	:	Treat symptomatically.
SECTION	5. FIRE-FIGHTING ME	ASI	JRES
Suita	ble extinguishing media	:	Use extinguishing measures that are appropriate to local

Suitable extinguishing media	÷	circumstances and the surrounding environment.
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire fighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion prod- ucts	:	No hazardous combustion products are known
Further information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment for fire-fighters	:	Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. Avoid dust formation. Avoid breathing dust.
Environmental precautions	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	:	Keep in suitable, closed containers for disposal.

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SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.
Advice on safe handling	:	 Avoid formation of respirable particles. Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations. Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Conditions for safe storage	:	Keep in properly labeled containers. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Further information on stor- age stability	:	No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Silica gel, pptd., crystfree	112926-00-8	TWA	6 mg/m3	OSHA P0
		TWA (Dust)	20 Million particles per cubic foot (Silica)	OSHA Z-3
		TWA (Dust)	80 mg/m3 / %SiO2 (Silica)	OSHA Z-3
		TWA	6 mg/m3 (Silica)	NIOSH REL
phenol	108-95-2	TWA	5 ppm	ACGIH
		TWA	5 ppm 19 mg/m3	NIOSH REL
		С	15.6 ppm 60 mg/m3	NIOSH REL

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TWA	5 ppm 19 mg/m3	OSHA Z-1
TWA	5 ppm 19 mg/m3	OSHA P0

Biological occupational exposure limits

Components	CAS-No.	Control	Biological	Sam-	Permissible	Basis
		parameters	specimen	pling	concentra-	
				time	tion	
phenol	108-95-2	Phenol	Urine	End of shift (As	250 mg/g creatinine	ACGIH BEI
				soon as	oreatimite	
				possible		
				after		
				exposure		
				ceases)		

Personal protective equipment

Respiratory protection	:	No personal respiratory protective equipment normally required.
Hand protection		
Material	:	Nitrile rubber
Remarks	:	The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Eye protection	:	Eye wash bottle with pure water Tightly fitting safety goggles
Skin and body protection	:	Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Protective measures	:	Ensure that eye flushing systems and safety showers are located close to the working place.
Hygiene measures	:	When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	solid
Color	:	dark yellow
Odor	:	phenol-like

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Odor Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
		No data available
Upper explosion limit / Upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Vapor pressure	:	Not applicable
Relative vapor density	:	Not applicable
		No data available
Relative density	:	No data available
Density	:	No data available
Solubility(ies) Water solubility	:	7.1 μg/l tristyrenated phenol (TSP) Method: OECD Test Guideline 105
		665 μg/l distyrenated phenol (DSP) Method: OECD Test Guideline 105
Partition coefficient: n- octanol/water	:	log Pow: 6.24 (77 °F / 25 °C)
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available

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Acute oral toxicity

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Explo	osive properties	:	Not explosive
			Not applicable
Oxidi	zing properties	:	Not applicable
SECTION	10. STABILITY AND RE	EAC	TIVITY
Reac	tivity	:	No decomposition if stored and applied as directed.
Chen	nical stability	:	No decomposition if stored and applied as directed.
Poss tions	ibility of hazardous reac-	:	No decomposition if stored and applied as directed.
Cond	litions to avoid	:	Protect from frost, heat and sunlight.
Incon	npatible materials	:	Not applicable
Haza produ	rdous decomposition	:	No hazardous decomposition products are known.
ECTION	11. TOXICOLOGICAL I	NFC	ORMATION
	e toxicity lassified due to lack of da	ata.	
Prod			
Acute	e oral toxicity	:	Acute toxicity estimate: 3,314 mg/kg Method: Calculation method
Acute	e dermal toxicity	:	Acute toxicity estimate: 3,478 mg/kg Method: Calculation method
Com	ponents:		
Phen	ol, styrenated:		
Acute	e oral toxicity	:	LD50 (Rat, female): > 2,000 mg/kg
Acute	e inhalation toxicity	:	Remarks: No data available
Acute	e dermal toxicity	:	LD50 (Rat, male and female): > 2,000 mg/kg Method: OECD Test Guideline 402
phen	ol:		
,			

: LD50 (Mouse): 282 mg/kg

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Acute inhalation toxicity	:	LC50 (Rat, female): > 0.9 mg/l Exposure time: 8 h Test atmosphere: dust/mist Method: OECD Test Guideline 403
Acute dermal toxicity	:	LD50 (Rat, female): 660.00 mg/kg Method: OECD Test Guideline 402
Skin corrosion/irritation Causes skin irritation.		
Product: Remarks	:	May cause skin irritation and/or dermatitis.
Components:		
Phenol, styrenated:		
Result	:	Skin irritation
phenol:		
Result	:	Corrosive after 3 minutes to 1 hour of exposure
Serious eye damage/eye ir	ritati	on
Not classified due to lack of	data.	
<u>Product:</u> Remarks		Braduat duat may be irritating to ayon, akin and reapiratory
Remarks	•	Product dust may be irritating to eyes, skin and respiratory system.
	izatio	_
Respiratory or skin sensiti		
Respiratory or skin sensiti Skin sensitization	24110	
Respiratory or skin sensiti Skin sensitization May cause an allergic skin re		
Skin sensitization		
Skin sensitization May cause an allergic skin re	eactio	on.
Skin sensitization May cause an allergic skin re Respiratory sensitization	eactio	on.
Skin sensitization May cause an allergic skin re Respiratory sensitization Not classified due to lack of	eactio	on.
Skin sensitization May cause an allergic skin re Respiratory sensitization Not classified due to lack of <u>Product:</u>	eactio	on.
Skin sensitization May cause an allergic skin re Respiratory sensitization Not classified due to lack of <u>Product:</u> Remarks	eactio	on.

Not classified due to lack of data.

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Components:

phenol:

Germ cell mutagenicity -	:	Suspected of inducing heritable mutations in the germ cells of
Assessment		humans.

Carcinogenicity

Not classified due to lack of data.

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

- **OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
- **NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified due to lack of data.

STOT-single exposure

Not classified due to lack of data.

STOT-repeated exposure

Not classified due to lack of data.

Components:

phenol: Target Organs Assessment	:	Kidney The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.
Target Organs	:	Liver
Target Organs	:	Skin
Target Organs	:	Nervous system
Aspiration toxicity Not classified due to lack of da Further information	ata.	
Further information		

Product:

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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity		
Components:		
Phenol, styrenated:		
Toxicity to fish	:	LC50 (Fish): 5.6 mg/l Exposure time: 96 h GLP: No information available.
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 4.6 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EL50 (Chlorella vulgaris (Fresh water algae)): 20.4213 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201
Toxicity to fish (Chronic tox- icity)	:	Remarks: No data available
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC (Daphnia magna (Water flea)): 0.2 mg/l Exposure time: 21 d
Silica gel, pptd., crystfree: Toxicity to algae/aquatic plants	:	Remarks: No data available
phenol: Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 8.90 mg/l Exposure time: 96 h Test Type: flow-through test
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Ceriodaphnia dubia (water flea)): 3.1000 mg/l Exposure time: 48 h Test Type: static test
Toxicity to algae/aquatic plants	:	EC50 (Raphidocelis subcapitata (freshwater green alga)): 61.10 mg/l Exposure time: 96 h Test Type: static test
Toxicity to fish (Chronic tox- icity)	:	NOEC (Fish): 0.08 mg/l Exposure time: 60 d
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC (Daphnia magna (Water flea)): 0.1600 mg/l Exposure time: 16 d

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Persistence and degradabilit	ty	
Components:		
Phenol, styrenated:		
Biodegradability	:	Result: Not biodegradable
Silica gel, pptd., crystfree:		
Biodegradability	:	Remarks: The methods for determining the biological degra- dability are not applicable to inorganic substances.
phenol:		
Biodegradability	:	Result: Readily biodegradable.
Bioaccumulative potential		
No data available		
Mobility in soil		
No data available		
Other adverse effects		
Product:		
Ozone-Depletion Potential	:	Regulation: 40 CFR Protection of Environment; Part 82 Pro- tection of Stratospheric Ozone - CAA Section 602 Class I Substances
		Remarks: This product neither contains, nor was manufac- tured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).
Additional ecological infor- mation	:	Information given is based on data on the ingredients and the ecotoxicology of similar products. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life with long lasting effects.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	 Dispose of wastes in an approved waste disposal facility. The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.
Contaminated packaging	: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

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SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG			
UN number	:	UN 3077	
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Phenol, styrenated)	
Class	:	9	
Packing group	:		
Labels	:	9	
Environmentally hazardous	:	no	
IATA-DGR			
UN/ID No.	:	UN 3077	
Proper shipping name	:	Environmentally hazardous substance, solid, n.o.s. (Phenol, styrenated)	
Class	:	9	
Packing group	:	III	
Labels	:	Miscellaneous	
Packing instruction (cargo aircraft)	:	956	
Packing instruction (passen- ger aircraft)	:	956	
IMDG-Code			
UN number	:	UN 3077	
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	
		(Phenol, styrenated)	
Class	:	9	
Packing group	:	III	
Labels	:	9	
EmS Code	:	F-A, S-F	
Marine pollutant	:	yes	
Transport in bulk according to Appen II of MAPPOL 73/78 and the IRC Code			

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

49 CFR	
UN/ID/NA number	UN 3077
Proper shipping name	Environmentally hazardous substance, solid, n.o.s. (Phenol, styrenated)
Class	9
Packing group	
Labels	CLASS 9
ERG Code	171
Marine pollutant	yes(Phenol, styrenated)



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Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
ethylbenzene	100-41-4	100	100 (F003)

SARA 304 Extremely Hazardous Substances Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	Respiratory or skin sensitization Skin corrosion or irritation
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

phenol	108-95-2	>= 0.1 - < 1 %
ethylbenzene	100-41-4	>= 0 - < 0.1 %
styrene	100-42-5	>= 0 - < 0.1 %

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

phenol	108-95-2	>= 0.1 - < 1 %
ethylbenzene	100-41-4	>= 0 - < 0.1 %
styrene	100-42-5	>= 0 - < 0.1 %

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act



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California Prop. 65

WARNING: This product can expose you to chemicals including ethylbenzene, styrene, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

California Permissible Exposure Limits for Chemical Contaminants

Silica gel, pptd., cryst.-free

112926-00-8

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

ACGIH ACGIH BEI NIOSH REL OSHA P0	:	USA. ACGIH Threshold Limit Values (TLV) ACGIH - Biological Exposure Indices (BEI) USA. NIOSH Recommended Exposure Limits USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
OSHA Z-1	:	USA. Óccupational Exposure Limits (OSHA) - Table Z-1 Lim- its for Air Contaminants
OSHA Z-3	:	USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
ACGIH / TWA	:	8-hour, time-weighted average
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / C	:	Ceiling value not be exceeded at any time.
OSHA P0 / TWA	:	8-hour time weighted average
OSHA Z-1 / TWA	:	8-hour time weighted average
OSHA Z-3 / TWA	:	8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC -International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Pre-

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vention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / Z8