

Version 1.5 PRD	Revision Date: 05/23/2022	SDS Numbe 1500000930 SDSUS / Z8/0	35 Date of first issue: 09/06/2016			
SECTION 1. IDENTIFICATION						
Pro	duct name	: Duralink	(TM) HTS			
Product code			34009-00, P3400900, P3400901, P3400902, P3400903, P3400904, E3400901			
Manufacturer or supplier's		details				
Company name of supplier		: Flexsys	America L.P.			
Address			ngside Drive H 44333-2433			
Emergency telephone		: CHEMI	CHEMTREC: +1 703-741-5970			
Recommended use of the c		hemical and	restrictions on use			
Recommended use		: Industria	l chemical			
Restrictions on use		: None kr	iown.			

### SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accor 1910.1200)	dar	ce with the OSHA Hazard Communication Standard (29 CFR
Combustible dust		
Skin sensitization	:	Category 1
GHS label elements		
Hazard pictograms	:	
Signal Word	:	Warning
Hazard Statements	:	May form combustible dust concentrations in air. H317 May cause an allergic skin reaction.
Precautionary Statements	:	<ul> <li>Prevention:</li> <li>P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.</li> <li>P272 Contaminated work clothing should not be allowed out of the workplace.</li> <li>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</li> <li>P210 Keep away from open flames/ hot surfaces No smoking.</li> </ul>



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		P243 Take prec	autionary measures against static discharge.
		P333 + P313 If attention.	ON SKIN: Wash with plenty of soap and water. skin irritation or rash occurs: Get medical advice/ ntaminated clothing before reuse.
		<b>Disposal:</b> P501 Dispose o posal plant.	of contents/ container to an approved waste dis-
Othe	r hazards		
None	known.		
SECTION	3. COMPOSITION/IN	FORMATION ON ING	REDIENTS
Subs	tance / Mixture	: Mixture	

Components						
Chemical name	CAS-No.	Concentration (% w/w)				
disodium S,S'-hexane-1,6- diyldi(thiosulphate) dihydrate	5719-73-3	98 - 99				
white mineral oil	8042-47-5	1 - 2				

Actual concentration is withheld as a trade secret

Flexsys is committed to the safety, health and environment of our employees, our customers, and the communities we operate within. As part of this commitment, Flexsys' Safety Data Sheets (SDS) are prepared in accordance with all applicable national and local regulations. The compositions of our documents reflect these requirements which include, but are not limited to, requirements under the Globally Harmonized System of Classification and Labeling (GHS). These compositions commonly involve the use of ranges versus specific analytical values. If you require a composition that is more specific , please refer to the Certificate of Analysis, sales specification, or contact your Customer Service Representative.

SECTION 4. FIRST AID MEASURES						
If inhaled	: If breathing is difficult, give oxygen. Get medical attention if symptoms occur.					
In case of skin contact	<ul> <li>Wash off immediately with soap and plenty of water.</li> <li>Remove contaminated clothing and shoes.</li> <li>If skin irritation or rash occurs: Get medical advice/ attention.</li> <li>Wash contaminated clothing before reuse.</li> </ul>					
In case of eye contact	: Immediately flush eye(s) with plenty of water. Get medical attention if symptoms occur.					
If swallowed	: Rinse mouth. If swallowed, DO NOT induce vomiting unless directed to do					



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				so by medical per	sonnel.	
Most important symptoms and effects, both acute and delayed		:	May cause an allergic skin reaction.			
	Notes t	o physician	:	Treat symptomation	cally.	
SEC	TION 5	. FIRE-FIGHTING ME	ASU	IRES		
	Suitable extinguishing media		:	Water spray Foam Dry powder Carbon dioxide (C	O2)	
	Unsuitable extinguishing media		:	Do not use a solic fire.	water stream as it may scatter and spread	
	Specific hazards during fire fighting		:			
Hazardous combustion prod- : Carbon oxides ucts Sulfur oxides						
	Further	information	:	: Minimize dust generation and accumulation.		
Special protective equipment for fire-fighters		:		positive pressure self-contained breathing ion to standard fire fighting gear.		

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- : tive equipment and emer- gency procedures	<ul> <li>Avoid contact with skin, eyes and clothing.</li> <li>Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.</li> <li>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>Take precautionary measures against static discharge.</li> <li>Local authorities should be advised if significant spillages cannot be contained.</li> </ul>
Environmental precautions :	Clear up spills immediately and dispose of waste safely. Avoid release to the environment.
Methods and materials for : containment and cleaning up	Sweep up and shovel into suitable containers for disposal.

### SECTION 7. HANDLING AND STORAGE

Advice on protection against	:	Minimize dust generation	and accumulation.
fire and explosion			



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Advi	ce on safe handling	Wash thoroughly Contaminated we workplace. Avoid breathing of Use only in area Minimize dust ge Take precautiona Keep away from	e personal protective equipment. after handling. ork clothing should not be allowed out of the dust/ fume/ gas/ mist/ vapors/ spray. provided with appropriate exhaust ventilation. eneration and accumulation. ary measures against static discharge. heat, hot surfaces, sparks, open flames and urces. No smoking.
Con	ditions for safe storage	: Keep containers ventilated place.	tightly closed in a dry, cool and well-

### 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			
white mineral oil	8042-47-5	TWA (Mist)	5 mg/m3	OSHA Z-1			
		TWA (Inhal-	5 mg/m3	ACGIH			
		able particu-					
		late matter)					
		TWA (Mist)	5 mg/m3	OSHA P0			
		TWA (Mist)	5 mg/m3	NIOSH REL			
		ST (Mist)	10 mg/m3	NIOSH REL			
Engineering measures Personal protective equipme Respiratory protection	should be us conditions. exhaust vent airborne leve exposure lin levels to an <b>nt</b> : If engineering concentratio applicable) o	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved					
	respirator m	ust be worn.					
Hand protection							
Remarks	: Protective gl	Protective gloves Skin should be washed after contact.					
Eye protection	: Wear safety	Wear safety glasses with side shields (or goggles).					
Skin and body protection	: Wear suitab	Wear suitable protective clothing.					
Protective measures	: Ensure that	Ensure that eye flushing systems and safety showers are					



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			located close to th	ne working place.			
Hygiene	Hygiene measures		<ul> <li>Handle in accordance with good industrial hygiene and s practice.</li> <li>Wash thoroughly after handling.</li> <li>Contaminated work clothing should not be allowed out o workplace.</li> <li>Wash contaminated clothing before reuse.</li> </ul>				
SECTION 9.	PHYSICAL AND CHI	EMIC	CAL PROPERTIES	3			
Appeara	nce	:	powder				
Color		:	white				
Odor		:	mild, musty				
Odor Thr	reshold	:	not determined				
рН		:	not determined				
Melting p	point/range	:	261 - 279 °F / 12	7 - 137 °C			
		:	decomposes				
Evaporat	ion rate	:	not determined				
Flammat	pility (solid, gas)	:	May form combu	stible dust concentrations in air.			
Self-ignit	ion	:	453 °F / 234 °C				
Upper ex flammab	kplosion limit / Upper ility limit	:					
			not determined				
Lower ex flammab	xplosion limit / Lower ility limit	:	325 g/m3				
Vapor pr	essure	:	33.5 hPa (104 °F	7 / 40 °C)			
Relative	vapor density	:	not determined				
Relative	density	:	1.40 (68 °F / 20 °	°C)			
Density		:	1.4 g/cm3				
Solubility Wate	r(ies) r solubility	:	307 g/l insoluble	(68 °F / 20 °C)			

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	ition coefficient: n- nol/water	:	Not applicable	
Auto	pignition temperature	:	not determined	
Dec	Decomposition temperature		>= 482 °F / 250 ° Method: DSC	°C
Exp	losive properties	:	Not classified	
Oxio	dizing properties	:	Not classified	
Mol	ecular weight	:	354.41 g/mol	
Dus	t deflagration index (Kst)	:	112 m,b_/s	
Dus	t explosion class	:	St 1 - weak explo	osion
Min	mum ignition energy	:	260 - 1,000 J	

### SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	None reasonably foreseeable.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac- tions	:	Stable
Conditions to avoid	:	Minimize dust generation and accumulation.
Incompatible materials	:	Strong oxidizing agents
Hazardous decomposition products	:	Emits acrid smoke and fumes when heated to decomposition.

### SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely rou Skin contact	tes of exposure				
Acute toxicity Not classified based on available information.					
Components:					
disodium S,S'-hexane-1,	6-diyldi(thiosulphate) dihydrate:				
Acute oral toxicity	: LD50 Oral (Rat, male and female): > 5,000 mg/kg Assessment: The substance or mixture has no acute oral tox- icity				
Acute dermal toxicity	: LD50 Dermal (Rabbit, male and female): > 5,000 mg/kg				



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		Assessment: toxicity	The substance or mixture has no acute dermal
whi	ite mineral oil:		
Acı	te oral toxicity	: LD50 Oral (Ra	at): > 5,000 mg/kg
	n corrosion/irritation		
Not	classified based on ava	ilable information.	
<u>Cor</u>	<u>nponents:</u>		
dise	odium S,S'-hexane-1,6	6-diyldi(thiosulphate	) dihydrate:
	ecies	: Rabbit	
•	osure time	: 24 h	
	essment hod	: Not classified : Draize Test	as hazardous.
Res		: slight	
whi	ite mineral oil:		
	ecies	: Rabbit	
	osure time	: 24 h	
Res	suit	: none	
	ious eye damage/eye		
Not	classified based on ava	ilable information.	
<u>Cor</u>	<u>nponents:</u>		
dise	odium S,S'-hexane-1,6	6-diyldi(thiosulphate	) dihydrate:
Spe	ecies	: Rabbit	
Res		: slight	
	essment hod	: Not classified	
IVIEI	noa	: Draize Test	
whi	ite mineral oil:		
	ecies	: Rabbit	
Res	ouit	: none : 24 h	
ΞXμ		. 24 11	
Res	spiratory or skin sensi	tization	
Ski	n sensitization		
May	/ cause an allergic skin	reaction.	
Res	piratory sensitization		
	classified based on ava	ailable information.	
	nponents:		

### disodium S,S'-hexane-1,6-diyldi(thiosulphate) dihydrate:

Test Type :	:	Skin Sensitization
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Spe Ass Met Res	essment hod	<ul> <li>Guinea pig</li> <li>Skin sensitization</li> <li>OECD Test Guideline 406</li> <li>May cause sensitization by skin contact.</li> </ul>
Spe	essment hod	<ul> <li>Skin Sensitization</li> <li>Humans</li> <li>Skin sensitization</li> <li>Human Repeat Insult Patch Test</li> <li>May cause sensitization by skin contact.</li> </ul>
Not	m cell mutagenicity classified based on a nponents:	
disc	dium S.S'-hexane-	1,6-diyldi(thiosulphate) dihydrate:
	otoxicity in vitro	: Test Type: Salmonella typhimurium assay (Ames test) Metabolic activation: +/- activation Method: Bacterial Reverse Mutation Assay Result: negative
		Test Type: Mutagenicity - Mammalian Metabolic activation: +/- activation Method: In vitro Mammalian Chromosome Aberration Test Result: negative
Gen	otoxicity in vivo	: Species: Rat Application Route: oral: gavage Method: Mammalian Bone Marrow Chromosome Aberration Test Result: negative
whi	te mineral oil:	
	otoxicity in vitro	: Test Type: Mutagenicity - Bacterial Metabolic activation: +/- activation Method: Bacterial Reverse Mutation Assay Result: negative
Gen	otoxicity in vivo	: Species: Mouse Method: Mammalian Erythrocyte Micronucleus Test Result: negative
	<b>cinogenicity</b> classified based on a	available information.
<u>Con</u>	nponents:	
whi	te mineral oil:	
	cies lication Route hod	<ul> <li>Rat</li> <li>Ingestion</li> <li>OECD Test No. 453: Combined Chronic Toxici- ty/Carcinogenicity Studies</li> </ul>



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Remar	ks	: negative					
IARC			ent at levels greater than or equal to 0.1% is confirmed human carcinogen by IARC.				
OSHA		No component of this product present at levels greater than or equal to 0.1% 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.					
-	ductive toxicity	nilable information					
	<b>single exposure</b> assified based on av	ailable information.					
<u>Comp</u>	onents:						
	sment <b>repeated exposure</b> assified based on ava						
_	onents:						
-							
Assess		6-diyldi(thiosulphate) : Not classified	dihydrate:				
Repea	ted dose toxicity						
<u>Comp</u>	onents:						
disodi	um S,S'-hexane-1,	6-diyldi(thiosulphate)	dihydrate:				
Specie	S	: Rat, male and f	emale				
	l	: 500 mg/kg : 1,000 mg/kg					
•		: by gavage					
NOAEI	ation Route						
NOAEI Applica	ation Route ure time	: 90 days					
NOAEI Applica Exposi		: 90 days					
NOAEI Applica Exposi white Specie	ure time mineral oil: vs	: Rat					
NOAEI Applica Expose white Specie NOAEI	ure time mineral oil: vs		I				

Not classified based on available information.



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<u>Prod</u> No da	<u>uct:</u> ata available			
disod	ponents: dium S,S'-hexane-1,6 pplicable	-diyldi(tl	niosulphate) c	lihydrate:
	<b>e mineral oil:</b> be fatal if swallowed ar	nd enters	airways.	
Expe	rience with human e	xposure		
Prod				
Inhala	ation	: R	emarks: None	known.
Skin	contact	: R	emarks: May o	cause an allergic skin reaction.
Eye	contact	: R	emarks: None	known.
Inges	tion	: R	emarks: None	known.
SECTION	12. ECOLOGICAL IN	FORMA	ΓΙΟΝ	
Ecoto	oxicity			
Com	ponents:			
disod	lium S,S'-hexane-1,6	-diyldi(tl	niosulphate) d	lihydrate:

	yiu	in(initiosulphate) universite.
Toxicity to fish	:	LC50 (Lepomis macrochirus (Bluegill sunfish)): > 1,000 mg/l Exposure time: 96 h
		LC50 (Oncorhynchus mykiss (rainbow trout)): > 1,000 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	LC50 (Daphnia magna (Water flea)): 80 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	ErC50 (Selenastrum capricornutum (green algae)): > 107 mg/l Exposure time: 72 h
		NOEC: (Selenastrum capricornutum (green algae)): > 107 mg/l Exposure time: 72 h
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	EC50 (Daphnia magna (Water flea)): 250 mg/l Exposure time: 21 d
		NOEC: (Daphnia magna (Water flea)): 190 mg/l Exposure time: 21 d

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Toxicity ganism	r to soil dwelling or- s	:	NOEC:: > 940 mg	ı/kg	
Ecotox	icology Assessment				
Chronic	aquatic toxicity	:	Harmful to aquatic life with long lasting effects.		
white n	nineral oil:				
Toxicity	r to fish	:	LL50 (Lepomis m Exposure time: 96	acrochirus (Bluegill sunfish)): > 100 mg/l 5 h	
	to daphnia and other invertebrates	:	LL50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h		
Toxicity plants	to algae/aquatic	:	EL50 (Pseudokirchneriella subcapitata (algae)): > 100 mg/l Exposure time: 72 h		
Persist	ence and degradabil	ity			
<u>Compo</u>	onents:				
	<b>ım S,S'-hexane-1,6-d</b> i adability	iyld :	Biodegradation: Method: Ready B Remarks: Not rea Biodegradation: Exposure time: 76	< 10 % iodegradability: CO2 Evolution Test dily biodegradable. 0 % 6 d Biodegradability: Modified SCAS Test	
Bioacc	umulative potential				
<u>Compo</u>	onents:				
	ım S,S'-hexane-1,6-di	iyld	• • •	-	
Bioaccu	umulation	:	Remarks: Bioacc	umulation is unlikely.	
Partition octanol	n coefficient: n- /water	:	log Pow: -3.87		
			log Pow: -4.72		
Mobilit	y in soil				
<u>Compo</u>	onents:				
disodiu	ım S,S'-hexane-1,6-di	iyld	i(thiosulphate) dil	hydrate:	
	tion among environ- compartments	:	Koc: 0.23 - 0.64, Method: OECD To Batch Equilibrium	est No. 106: Adsorption - Desorption Using a	

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### Other adverse effects

No data available

### SECTION 13. DISPOSAL CONSIDERATIONS

### **Disposal methods**

Waste from residues : Dispose of in accordance with local regulations.

#### SECTION 14. TRANSPORT INFORMATION

#### **International Regulations**

IATA-DGR Not regulated as a dangerous good

IMDG-Code Not regulated as a dangerous good

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** Not regulated as a dangerous good

Special precautions for user Not applicable

### SECTION 15. REGULATORY INFORMATION

### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS 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	:	Combustible dust Respiratory or skin sensitization
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.

#### California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

The ingredients of this product are reported in the following inventories:DSL:On the inventory, or in compliance with the inventory



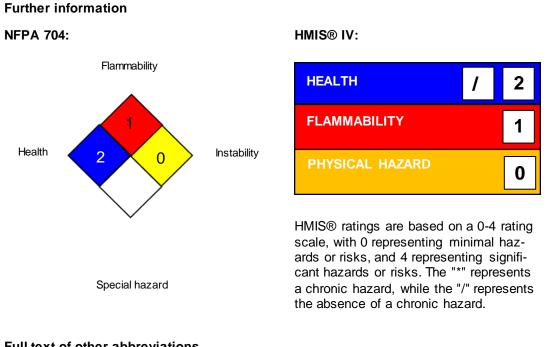
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ENCS		:	On the inventory,	or in compliance with the inventory
ISHL		:	On the inventory,	or in compliance with the inventory
KECI		:	On the inventory,	or in compliance with the inventory
PICCS	;	:	On the inventory,	or in compliance with the inventory
IECSC	;	:	On the inventory,	or in compliance with the inventory
TSCA		:	All substances list	ed as active on the TSCA inventory

### **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 NIOSH REL		USA. ACGIH Threshold Limit Values (TLV) USA. NIOSH Recommended Exposure Limits
OSHA P0		USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- its for Air Contaminants
ACGIH / TWA	:	8-hour, time-weighted average
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour



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NIOSH REL / ST		workday during a 40-hour workweek STEL - 15-minute TWA exposure that should not be exceeded
NICOT NEE / OT	•	at any time during a workday
OSHA P0 / TWA OSHA Z-1 / TWA		8-hour time weighted average 8-hour time weighted average
	•	o hour time weighted average

AllC - 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 Prevention 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