

Santoflex(TM)77PD

Version 1.2 PRD	Revision Date: 05/16/2022	SDS Number:Date of last issue: 12/02/20'150000093097Date of first issue: 09/06/20'SDSUS / Z8 / 0530Date of first issue: 09/06/20'					
SECTION	1. IDENTIFICATION						
Produ	uct name	: Santoflex(TM) 77PD	Santoflex(TM) 77PD				
Produ	uct code	: 34060-00, P3406000, P3406002, P3406004, F P3406007	23406005,				
	afacturer or supplier's						
Comp	bany name of supplier	: Flexsys America L.P.					
Addre	ess	: 260 Springside Drive Akron OH 44333-2433					
Emer	gency telephone	: CHEMTREC: +1 703-741-5970					
Reco	mmended use of the	emical and restrictions on use					
Reco	mmended use	: antioxidant (industrial) Stabilizer					
Restr	ictions on use	: None known.					
SECTION	2. HAZARDS IDENTIF						

GHS classification in accord 1910.1200)	dan	ce with the OSHA Hazard Communication Standard (29 CFR
Acute toxicity (Oral)	:	Category 4
Skin sensitization	:	Category 1
GHS label elements Hazard pictograms	:	
Signal Word	:	Warning
Hazard Statements	:	H302 Harmful if swallowed. H317 May cause an allergic skin reaction.
Precautionary Statements	:	Prevention: P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P272 Contaminated work clothing should not be allowed out of the workplace.



Santoflex(TM)77PD

Version 1.2 PRD	Revision Date: 05/16/2022	SDS Number: 150000093097 SDSUS / Z8 / 0530	Date of last issue: 12/02/2019 Date of first issue: 09/06/2016
		P280 Wear prot	ective gloves.
		CENTER/ docto P302 + P352 IF P333 + P313 If attention.	P330 IF SWALLOWED: Call a POISON or if you feel unwell. Rinse mouth. ON SKIN: Wash with plenty of soap and water. skin irritation or rash occurs: Get medical advice/ ntaminated clothing before reuse.
		Disposal: P501 Dispose c	of contents/ container to an approved waste dis-

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Substance
Substance name	:	N,N'-Bis(1,4-dimethylpentyl)-p-phenylenediamine
CAS-No.	:	3081-14-9

posal plant.

Components

Chemical name	CAS-No.	Concentration (% w/w)
N,N'-bis(1,4-dimethylpentyl)-p-	3081-14-9	>= 90 - <= 100
phenylenediamine		

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	:	Move to fresh air. Treat symptomatically. If symptoms persist, call a physician.
In case of skin contact	:	Wash off with soap and plenty of water. Wash contaminated clothing before re-use. In the case of skin irritation or allergic reactions see a physician. Thoroughly clean shoes before reuse.



Santoflex(TM)77PD

Version 1.2 PRD	Revision Date: 05/16/2022	15	DS Number: 0000093097 0SUS / Z8/ 0530	Date of last issue: 12/02/2019 Date of first issue: 09/06/2016
In case	e of eye contact	:	In the case of con of water and seek	ntact with eyes, rinse immediately with plenty medical advice.
If swallowed		:	Seek medical adv	ice.
Most important symptoms and effects, both acute and delayed		:	Harmful if swallowed. May cause an allergic skin reaction.	
Notes	to physician	:	Treat symptomati	cally.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Carbon dioxide (CO2) Dry chemical Water spray
Unsuitable extinguishing media	:	Do not use a solid water stream as it may scatter and spread fire.
Specific hazards during fire fighting	:	None known.
Hazardous combustion prod- ucts	:	No hazardous combustion products are known
Further information	:	None known.
Special protective equipment for fire-fighters	:	Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Wear appropriate personal protective equipment. Local authorities should be advised if significant spillages cannot be contained.
Environmental precautions	:	Avoid release to the environment.
Methods and materials for containment and cleaning up	:	Sweep up or vacuum up spillage and collect in suitable container for disposal. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

SECTION 7. HANDLING AND STORAGE

Advice on protection against	:	None known.
fire and explosion		



Santoflex(TM)77PD

Version 1.2 PRD	Revision Date: 05/16/2022	15	DS Number: 0000093097 SUS / Z8/ 0530	Date of last issue: 12/02/2019 Date of first issue: 09/06/2016
Advice	on safe handling	:	Avoid contact with Do not swallow. Wash thoroughly	skin, eyes and clothing. after handling.
Conditi	ons for safe storage	:	Keep tightly close	d.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures :	Good general ventilation (typically 10 air changes per hour) should be sufficient to control airborne levels. Ensure adequate ventilation.
Personal protective equipmen	t
Respiratory protection :	Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.
Hand protection	
Remarks :	Wear suitable gloves.
Eye protection :	Safety glasses
Protective measures :	Remove respiratory and skin/eye protection only after vapors have been cleared from the area. Ensure that eye flushing systems and safety showers are located close to the working place. Use personal protective equipment as required.
Hygiene measures :	Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	oily
Color	:	purple
Odor	:	slight, amine-like
Odor Threshold	:	not determined
рН	:	not determined
Melting point/range	:	< -58 °F / -50 °C



Santoflex(TM)77PD

Vers 1.2 PRD	sion	Revision Date: 05/16/2022	150	S Number: 000093097 US / Z8/ 0530	Date of last issue: 12/02/2019 Date of first issue: 09/06/2016
	Boiling	point/boiling range	:	327 - 336 °F / 16 (1.2 hPa)	4 - 169 °C
	Flash p	oint	:	352 °F / 178 °C (1,013 hPa) Method: open cu	0
	Evapora	ation rate	:	not determined	
	Flamma	ability (solid, gas)	:	Not applicable	
		explosion limit / Upper bility limit	:	not determined	
		explosion limit / Lower bility limit	:	not determined	
	Vapor p	pressure	:	0.0000015 hPa (77 °F / 25 °C)
	Relative	e vapor density	:	not determined	
	Relative	e density	:	No data available	
	Density		:	0.9 g/cm3 (81 °F	/ 27 °C)
	Solubili Wat	ty(ies) er solubility	:	0.8 mg/l (72 °F /	22 °C)
	Autoign	ition temperature	:	not determined	
	Decom	position temperature	:	not determined	
	Viscosi Visc	ty :osity, dynamic	:	28.6 mPa.s (100.	0 °F / 37.8 °C)
	Visc	osity, kinematic	:	56 - 85 mm2/s (7	7 °F / 25 °C)
	Explosi	ve properties	:	Not classified	
	Oxidizir	ng properties	:	Not classified	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	None reasonably foreseeable.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac- tions	:	Stable None known.
Conditions to avoid	:	None known.



Santoflex(TM)77PD

Versio 1.2 PRD	n Revision Date: 05/16/2022	15	DS Number: 0000093097 ISUS / Z8/ 0530	Date of last issue: 12/02/2019 Date of first issue: 09/06/2016			
In	compatible materials	:	Strong oxidizing	agents			
	lazardous decomposition roducts	: Carbon dioxide (CO2) Carbon monoxide					
SECTI	ION 11. TOXICOLOGICAL	INF	ORMATION				
	cute toxicity larmful if swallowed.						
Р	roduct:						
	cute oral toxicity	:	LD50 Oral (Rat): Assessment: Har	• •			
А	cute inhalation toxicity	:	Remarks: No sigr	nificant adverse effects were reported			
А	cute dermal toxicity	:	Remarks: No data	a available			
<u>c</u>	components:						
N	l,N'-bis(1,4-dimethylpentyl)∙	a-a-	henvlenediamine	:			
	cute oral toxicity		LD50 Oral (Rat):				
•	kin corrosion/irritation lot classified based on availa	ble	information.				
<u>P</u>	roduct:						
R	lemarks	:	No data available				

Components:

N,N'-bis(1,4-dimethylpentyl)-p-phenylenediamine:

Species	:	Rabbit
Exposure time	:	24 h
Result	:	No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Remarks	:	No data available

Components:

N,N'-bis(1,4-dimethylpentyl)-p-phenylenediamine:

Species	:	Rabbit
Result	:	No eye irritation



Santoflex(TM)77PD

Version 1.2 PRD	Revision Date: 05/16/2022	SDS Number: 150000093097 SDSUS / Z8/ 0530	Date of last issue: 12/02/2019 Date of first issue: 09/06/2016				
Resp	Respiratory or skin sensitization						

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Not classified based on available information.

Product:

Remarks

: May cause an allergic skin reaction.

Components:

N,N'-bis(1,4-dimethylpentyl)-p-phenylenediamine:

Test Type	:	Skin sensitization
Species	:	Guinea pig
Result	:	sensitizing

Germ cell mutagenicity

Not classified based on available information.

Components:

N,N'-bis(1,4-dimethylpentyl)-p-phenylenediamine:

Genotoxicity in vitro	:	Test Type: Mutagenicity - Mammalian Metabolic activation: +/- activation Result: negative
		Test Type: Mutagenicity - Bacterial Metabolic activation: +/- activation Result: negative
		Test Type: Chromosome aberration test in vitro Metabolic activation: +/- activation Result: negative
Germ cell mutagenicity - Assessment	:	Not classified as hazardous.

Carcinogenicity

Not classified based on available information.

Components:

N,N'-bis(1,4-dimethylpentyl)-p-phenylenediamine:

Remarks	:	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
Carcinogenicity - Assess- ment	:	Not classified

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.



Santoflex(TM)77PD

sion	Revision Date: 05/16/2022	15	DS Number: 0000093097 SUS / Z8/ 0530	Date of last issue: 12/02/2019 Date of first issue: 09/06/2016
OSHA			this product prese regulated carcino	ent at levels greater than or equal to 0.1% is gens.
NTP				nt at levels greater than or equal to 0.1% is carcinogen by NTP.
-	ductive toxicity			
Not cla	ssified based on avail	lable	information.	
Produce Effects	<u>ct:</u> on fertility	:	Remarks: No da	ta available
<u>Compo</u>	onents:			
N.N'-bi	s(1,4-dimethylpentyl	a-a-(henvlenediamin	e:
	on fertility	:	Species: Rat Application Rout General Toxicity	
Effects	on fetal development	:	Application Rout General Toxicity	e: Oral Maternal: NOAEL: 25 mg/kg body weight Foxicity: NOAEL: 150 mg/kg body weight
Reprod sessme	uctive toxicity - As- ent	:	Not classified Not classified as	hazardous.
STOT-	single exposure			
Not cla	ssified based on avail	lable	information.	
Produc	<u>:t:</u>			
Remark	<s< td=""><td>:</td><td>No data available</td><td></td></s<>	:	No data available	
Compo	onents:			
N,N'-bi	s(1,4-dimethylpentyl)-p- p	henylenediamin	e:
Assess	sment	:	Based on availab	le data, the classification criteria are not m
	repeated exposure ssified based on avail	lable	information.	
<u>Produc</u>	<u> 2t:</u>			
Remark	<s< td=""><td>:</td><td>No data available</td><td></td></s<>	:	No data available	
Compo	onents:			

Assessment : Based on available data, the classification criteria are not met.



Santoflex(TM)77PD

Version 1.2 PRD	Revision Date: 05/16/2022	SDS Number: 150000093097 SDSUS / Z8/ 0530	Date of last issue: 12/02/2019 Date of first issue: 09/06/2016
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Repeated dose toxicity

Components:

N,N'-bis(1,4-dimethylpentyl)-p-phenylenediamine:

Species	:	Rat
LÕAEL	:	15.9 mg/kg
Application Route	:	in feed
Exposure time	:	28 days

Aspiration toxicity

Not classified based on available information.

Product:

No data available

Components:

N,N'-bis(1,4-dimethylpentyl)-p-phenylenediamine:

Not classified

Experience with human exposure

Product:		
Inhalation	:	Remarks: No data available
Skin contact	:	Remarks: May cause an allergic skin reaction.
Eye contact	:	Remarks: No data available
Ingestion	:	Remarks: Harmful if swallowed.
Further information		
Product:		
Remarks	:	None known.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

N,N'-bis(1,4-dimethylpentyl)-p-phenylenediamine:

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 0.06 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.13 mg/l Exposure time: 48 h Remarks: Read-across from a similar material



Santoflex(TM)77PD

I.2 PRD	Revision Date: 05/16/2022	15	DS Number: Date of last issue: 12/02/2019 0000093097 Date of first issue: 09/06/2016 SUS / Z8 / 0530 Date of first issue: 09/06/2016
Toxicity plants	to algae/aquatic	:	EC50 (Pseudokirchneriella subcapitata (algae)): 0.335 mg/l Exposure time: 72 h Remarks: Read-across from a similar material
			NOEC (Pseudokirchneriella subcapitata (algae)): 0.0958 mg/ Exposure time: 72 h Remarks: Read-across from a similar material
Toxicity icity)	to fish (Chronic tox-	:	NOEC (Oryzias latipes (Orange-red killifish)): 0.0037 mg/l Exposure time: 30 d Remarks: Read-across from a similar material
	to daphnia and other invertebrates (Chron- y)	:	NOEC (Daphnia magna (Water flea)): 0.007 mg/l Exposure time: 21 d Remarks: Read-across from a similar material
M-Facto toxicity)	r (Chronic aquatic	:	10
Toxicity	to microorganisms	:	EC50 (Bacteria): 57 mg/l Exposure time: 3 h
Persiste	nce and degradabil	ity	
Persiste <u>Compor</u>	-	ity	
<u>Compor</u>	-	-	henylenediamine:
<u>Compor</u>	nents: (1,4-dimethylpentyl)-	-	henylenediamine: Biodegradation: 12 % Exposure time: 28 d
<u>Compor</u> N,N'-bis Biodegra Bioaccu	nents: (1,4-dimethylpentyl)-	p-p	Biodegradation: 12 %
<u>Compor</u> N,N'-bis Biodegra Bioaccu	nents: (1,4-dimethylpentyl)- adability umulative potential available	p-p	Biodegradation: 12 %
Compor N,N'-bis Biodegra Bioaccu No data	nents: (1,4-dimethylpentyl)- adability umulative potential available v in soil	p-p	Biodegradation: 12 %
Compor N,N'-bis Biodegra Bioaccu No data Mobility Compor	nents: (1,4-dimethylpentyl)- adability umulative potential available v in soil	p-p	Biodegradation: 12 % Exposure time: 28 d
Compor N,N'-bis Biodegra Bioaccu No data Mobility Compor N,N'-bis Distribut	nents: (1,4-dimethylpentyl)- adability umulative potential available v in soil nents:	p-p	Biodegradation: 12 % Exposure time: 28 d
Compor N,N'-bis Biodegra Bioaccu No data Mobility Compor N,N'-bis Distribut mental o	nents: (1,4-dimethylpentyl)- adability umulative potential available v in soil nents: (1,4-dimethylpentyl)- ion among environ-	р-р : р-р	Biodegradation: 12 % Exposure time: 28 d henylenediamine: Medium: Soil
Compor N,N'-bis Biodegra Bioaccu No data Mobility Compor N,N'-bis Distribut mental o Other a No data	nents: (1,4-dimethylpentyl)- adability umulative potential available v in soil nents: (1,4-dimethylpentyl)- ion among environ- compartments dverse effects	р-р ;	Biodegradation: 12 % Exposure time: 28 d henylenediamine: Medium: Soil log Koc: 4.76
Compor N,N'-bis Biodegra Bioaccu No data Mobility Compor N,N'-bis Distribut mental o Other a No data	nents: (1,4-dimethylpentyl)- adability umulative potential available v in soil nents: (1,4-dimethylpentyl)- ion among environ- compartments dverse effects available	р-р ;	Biodegradation: 12 % Exposure time: 28 d henylenediamine: Medium: Soil log Koc: 4.76



Santoflex(TM)77PD

Version Revision Date: 1.2 05/16/2022 PRD SDS Number: 150000093097 SDSUS / Z8 / 0530 Date of last issue: 12/02/2019 Date of first issue: 09/06/2016

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR		
UN/ID No.	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s. (N,N'-Bis(1,4-dimethylpentyl)-p-phenylenediamine)
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	964
Packing instruction (passen- ger aircraft)	:	964
Remarks	:	Shipping in package sizes of less than 5 L (liquids) or 5 KG (solids) may lead to a non-regulated classification.
IMDG-Code		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
		(N,N'-Bis(1,4-dimethylpentyl)-p-phenylenediamine)
Class	:	9
Packing group	:	III
Labels	:	9
EmS Code	:	F-A, S-F
Marine pollutant	:	no

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 Remarks : Shipping in package sizes of less than 5 L (liquids) or 5 KG (solids) may lead to a non-regulated classification.

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

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.



Santoflex(TM)77PD

Version 1.2 PRD	Revision Date: 05/16/2022	SDS Number: 150000093097 SDSUS / Z8/ 0530	Date of last issue: 12/02/2019 Date of first issue: 09/06/2016
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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 Acute toxicity (any route of exposure)
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 produ	uct	are reported in the following inventories:
TCSI	:	On the inventory, or in compliance with the inventory
TSCA	:	All substances listed as active on the TSCA inventory
AIIC	:	On the inventory, or in compliance with the inventory
DSL	:	All components of this product are on the Canadian DSL
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
NZIoC	:	On the inventory, or in compliance with the inventory
TECI	:	On the inventory, or in compliance with the inventory

TSCA list

No substances are subject to a Significant New Use Rule.

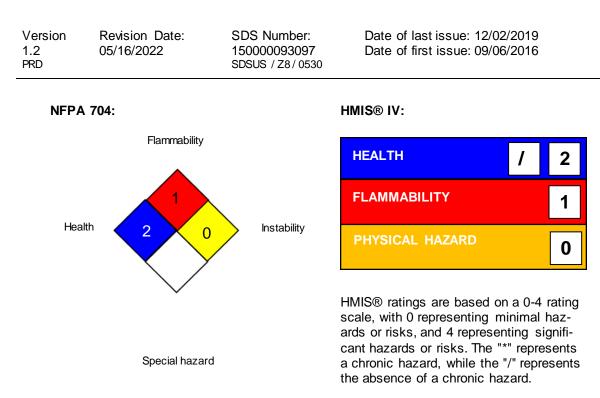
No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Further information



Santoflex(TM)77PD



Full text of other abbreviations

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



Santoflex(TM)77PD

Version Revision Date: SDS Number: Date of last issue: 12/02/2019 1.2 05/16/2022 150000093097 Date of first issue: 09/06/2016 PRD SDSUS / Z8 / 0530 Date of first issue: 09/06/2016	
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(United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Sources of key data used to : Chemical Safety Report compile the Material Safety Data Sheet

Revision Date : 05/16/2022

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