

Di-tert-Butyl Polysulfide (TBPS 454)

Version 1.11

Revision Date 2023-09-19

according to GB/T 16483 and GB/T 17519

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product information Di-tert-Butyl Polysulfide (TBPS 454) Product Name Material 1120381, 1072616, 1086440, 1086442, 1086441, 1024577, 1024572, 1024785, 1024784, 1024573, 1024574, 1024576, 1024578, 1024575, 1105172 Company : Chevron Phillips Chemical Company LP Specialty Chemicals 10001 Six Pines Drive The Woodlands, TX 77380 Local : Chevron Phillips Chemicals (Shanghai) Corporation Room 1810-1812, Shanghai Mart, 2299 Yan An Road (W), Shanghai, PRC 200336 Tel: (86-21) 22157200 **Emergency telephone:** Health: 866.442.9628 (North America) 1.832.813.4984 (International) Transport: CHEMTREC 800.424.9300 or 703.527.3887(int'l) Asia: CHEMWATCH (+612 9186 1132) China: 0532 8388 9090 Mexico CHEMTREC 01-800-681-9531 (24 hours) South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600 Argentina: +(54)-1159839431 EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Austria: VIZ +43 1 406 43 43 (24 hours/day, 7 days/week) Belgium: 070 245 245 (24 hours/day, 7 days/week) Bulgaria: +359 2 9154 233 Croatia: +3851 2348 342 (24 hours/day, 7 days/week) Cyprus: 1401 Czech Republic: Toxicological Information Center +420 224 919 293, +420 224 915 402 Denmark: Danish Poison Center (Giftlinien): +45 8212 1212 Estonia: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Finland: 0800 147 111 09 471 977 (24 hours/day) France: ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week) SDS Number:100000014136 1/13

Di-tert-Butyl Polysulfide (TBPS 454)

Version 1.11

Revision Date 2023-09-19

	RIC + 22 14 EQ4E4E (phono) or + 22 14 EQ2E4C (tolofox)
Hungary: Iceland: 54 Ireland: BI Italy: BIG Latvia: Sta Poisoning 67042473 Liechtenst Lithuania: Luxembou Malta: +35 The Nethe Norway: 2 Poland: BI Portugal: 0 Romania: Slovakia: Slovakia: Spain: Nat hours/day	BIG +32.14.584545 (phone) or +32.14583516 (telefax) 030) 2107793777 (24 hours/day, 7 days/week) 36-80-201-199 (24 hours/day, 7 days/week) 3 2222 (24 hours/day, 7 days/week) 3 -32.14.584545 (phone) or +32.14583516 (telefax) -32.14.584545 (phone) or +32.14583516 (telefax) te Fire and Rescue Service, phone number: 112; Toxicology and Sepsis Clinic and Drug Information Center, Hipokrāta 2, Riga, Latvia, LV-1038, phone number +371 (24 hours.) ein: BIG +32.14.584545 (phone) or +32.14583516 (telefax) +370 (85) 2362052 rg: (+352) 8002 5500 (24 hours/day, 7 days/week) 6 2395 2000 rlands: NVIC: +31 (0)88 755 8000 2 59 13 00 (24 hours/day, 7 days/week) G +32.14.584545 (phone) or +32.14583516 (telefax) +40213183606 -421 2 5477 4166 Phone number: 112 ional Emergency Telephone Number of Spanish Poison Centre: +34 91 562 04 20 (24 7 days/week) 12 – ask for Poisons Information
Responsible E-mail addres Website	Department : Product Safety and Toxicology Group s : SDS@CPChem.com : www.CPChem.com
	rds identification
Classificatio	n of the substance or mixture cation and Labeling: Follow GB 13690, GB 15258 and GB 30000.2 to GB 30000.29
Classificatio GHS Classifi (GHS 2011)	n of the substance or mixture cation and Labeling: Follow GB 13690, GB 15258 and GB 30000.2 to GB 30000.29
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Classificatio GHS Classifi (GHS 2011) Emergency O Warning Form: liquid	n of the substance or mixture cation and Labeling: Follow GB 13690, GB 15258 and GB 30000.2 to GB 30000.29 verview Physical state: liquid Color: Yellow Odor: Mild, sweet : May cause an allergic skin reaction. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.
Classificatio GHS Classifi (GHS 2011) Emergency O Warning Form: liquid Hazards	n of the substance or mixture cation and Labeling: Follow GB 13690, GB 15258 and GB 30000.2 to GB 30000.29 verview Physical state: liquid Color: Yellow Odor: Mild, sweet : May cause an allergic skin reaction. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.
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Classificatio GHS Classifi (GHS 2011) Emergency O Warning Form: liquid Hazards Classification	n of the substance or mixture cation and Labeling: Follow GB 13690, GB 15258 and GB 30000.2 to GB 30000.29 verview Physical state: liquid Color: Yellow Odor: Mild, sweet : May cause an allergic skin reaction. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. : Skin sensitization, Category 1 Short-term (acute) aquatic hazard, Category 1
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Classificatio GHS Classifi (GHS 2011) Emergency O Warning Form: liquid Hazards Classification Labeling Symbol(s)	 n of the substance or mixture cation and Labeling: Follow GB 13690, GB 15258 and GB 30000.2 to GB 30000.29 verview Physical state: liquid Color: Yellow Odor: Mild, sweet May cause an allergic skin reaction. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Skin sensitization, Category 1 Short-term (acute) aquatic hazard, Category 1 Long-term (chronic) aquatic hazard, Category 1 Warning

Di-tert-Butyl Polysulfide (TBPS 454)

Version 1.11

Revision Date 2023-09-19

Hazard Statements			se an allergic skin reactio c to aquatic life with long	
Precautionary Statements		P272: Contam of the workplace P273: Avoid re P280: Wear pl Response: P302+P352: P333 + P313: advice/ attentior P362+P364: before reuse. P391: Collect Disposal:	elease to the environmen rotective gloves. IF ON SKIN: Wash with If skin irritation or rash or n. Take off contaminated cl	uld not be allowed out t. plenty of water. ccurs: Get medical lothing and wash it
TION 3: Composition/info	rmati	on on ingredients	3	
Synonyms	:	Tertiary-Butyl Pol di-t-Butyl Polysulf tert-Butyl Polysulf Polysulfides, di-te CPChem TBPS 4	ide ide rrt-Butyl	
Molecular formula	:	C8H18Sx (x = ave	erage of 4.0)	
Chemical name			No. / EINECS-No.	Concentration [wt%]
Di-tert-butyl Polysulfide		68937	-96-2	90 - 100
TION 4: First aid measures	5			
General advice	:	Move out of dang sheet to the docto	erous area. Show this m or in attendance.	aterial safety data
If inhaled	:		ace in recovery position a ms persist, call a physicia	
In case of skin contact	:	If on skin, rinse w	ell with water.	
		Flush eyes with w	ater as a precaution. Re	
In case of eye contact	•		nharmed eye. Keep eye tation persists, consult a s	
In case of eye contact If swallowed	:	rinsing. If eye irrit Keep respiratory		specialist. nything by mouth to
	:	rinsing. If eye irrit Keep respiratory	tation persists, consult a stract clear. Never give ar	specialist. nything by mouth to

i-tert-Butyl Polysulfic	le	SAFETY DATA SHEE (TBPS 454)
ersion 1.11		Revision Date 2023-09-1
Symptoms	:	No data available.
Risks	:	No data available.
Treatment	:	No data available.
CTION 5: Firefighting measu	res	
Flash point	:	103°C (217°F) Method: ASTM D 93
Autoignition temperature	:	225°C (437°F) at 1,005.20 - 1,009.40 hPa Information given is based on data obtained from similar substances.
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.
Special protective equipment for fire-fighters	:	Wear self-contained breathing apparatus for firefighting if necessary.
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.
Fire and explosion protection	:	Normal measures for preventive fire protection.
Hazardous decomposition products	:	Carbon oxides. Sulfur oxides.
CTION 6: Accidental release	me	asures
Personal precautions		Use personal protective equipment.
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 for cleaning up	:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.
CTION 7: Handling and stora	ge	
Handling		
Advice on safe handling	:	Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For
OS Number:100000014136		4/13

Di-tert-Butyl Polysulfide (TBPS 454)

Version 1.11	Revision Date 2023-09-19
	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.
Advice on protection against fire and explosion	: Normal measures for preventive fire protection.
Storage	
Requirements for storage areas and 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. Electrical installations / working materials must comply with the technological safety standards.
SECTION 8: Exposure controls	/personal protection

Not applicable

Engineering measures

Adequate ventilation to control airborned concentrations below the exposure guidelines/limits. Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

Personal protective equipment

Respiratory protection	:	If ventilation or other engineering controls are not adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure, a supplied-air NIOSH approved respirator may be appropriate. If exposure to harmful levels of airborne material may occur, a NIOSH approved respirator that provides protection may be appropriate, such as:. A positive pressure, air-supplying respirator may be appropriate if there is potential for uncontrolled release, aerosolization, exposure levels are not known, or other circumstances where air- purifying respirators may not provide adequate protection.
Hand protection	:	The suitability for a specific workplace should be discussed with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Eye protection	:	Eye wash bottle with pure water. Tightly fitting safety goggles.
SDS Number:100000014136		5/13

tert-Butyl Polysulfic	de (TBPS 454)
sion 1.11	Revision Date 2023-0
Skin and body protection	: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate:. Remove and wash contaminated clothing before re-use. Skin should be washed after contact. Footwear protecting against chemicals.
Hygiene measures	: Wash hands before breaks and at the end of workday.
TION 9: Physical and chem	ical properties
Information on basic phys	ical and chemical properties
Appearance	
Form	: liquid
Physical state Color	: liquid : Yellow
Odor	: Mild, sweet
Safety data	
Flash point	: 103°C (217°F) Method: ASTM D 93
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Oxidizing properties	: No
Autoignition temperature	 225°C (437°F) at 1,005.20 - 1,009.40 hPa Information given is based on data obtained from similar substances.
Thermal decomposition	: 144 °C
Molecular formula	: C8H18Sx (x = average of 4.0)
Molecular weight	: 242.5 g/mol
рН	: Not applicable
Melting point/range	 -11°C (12°F) at 103.25 hPa Information given is based on data obtained from similar substances.
Freezing point	No data available
Boiling point/boiling range	: 172-180°C (342-356°F) (5%-50%), Decomposes
Vapor pressure	: 15.60 Pa at 20°C (68°F)
Number:100000014136	6/13

ersion 1.11	Revision Date 2023-0	9-1
	Information given is based on data obtained from similar substances.	
Density	: 1.0697 G/ML at 20°C (68°F)	
Water solubility	: Insoluble	
Partition coefficient: n- octanol/water	: log Pow: 5.6 Information given is based on data obtained from similar substances.	
Solubility in other solvents	: Soluble in hexane and white spirits.	
Viscosity, dynamic	: 10 cP at 20°C (68°F)	
Relative vapor density	: 1 (Air = 1.0)	
Evaporation rate	: Not applicable	
Percent volatile	: > 99 %	
Conductivity	: No data available	

Reactivity	: Stable under recommended storage conditions.
Chemical stability	: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Possibility of hazardous rea	ctions
Hazardous reactions	: Hazardous reactions: Hazardous polymerization does not occur.
Conditions to avoid	: No data available.
Thermal decomposition	: 144 °C
Hazardous decomposition products	: Carbon oxides Sulfur oxides
Other data	: No decomposition if stored and applied as directed.
SDS Number:100000014136	7/13

Di-tert-Butyl Polysulfide (TBPS 454)

Version 1.11

Revision Date 2023-09-19

SECTION 11: Toxicological information

Acute oral toxicity Di-tert-butyl Polysulfide	: LD50: > 2,000 mg/kg
	Species: Rat Sex: male and female Method: OECD Test Guideline 401 Information given is based on data obtained from similar substances.
Acute dermal toxicity	
Di-tert-butyl Polysulfide	 LD50: > 2,000 mg/kg Sex: male and female Method: OECD Test Guideline 402 Information given is based on data obtained from similar substances.
Di-tert-Butyl Polysulfide (1 Skin irritation	TBPS 454) : May cause skin irritation and/or dermatitis.
Di-tert-Butyl Polysulfide (1 Eye irritation	 FBPS 454) Vapors may cause irritation to the eyes, respiratory system and the skin.
Di-tert-Butyl Polysulfide (1 Sensitization	TBPS 454) : Causes sensitization.
Repeated dose toxicity	
Di-tert-butyl Polysulfide	: Species: Rat
	Application Route: Oral NOEL: 100 mg/kg Method: OECD Test Guideline 407 Target Organs: Blood Information given is based on data obtained from similar substances.
Genotoxicity in vitro	NOEL: 100 mg/kg Method: OECD Test Guideline 407 Target Organs: Blood Information given is based on data obtained from similar
Genotoxicity in vitro Di-tert-butyl Polysulfide	NOEL: 100 mg/kg Method: OECD Test Guideline 407 Target Organs: Blood Information given is based on data obtained from similar
•	 NOEL: 100 mg/kg Method: OECD Test Guideline 407 Target Organs: Blood Information given is based on data obtained from similar substances. Test Type: Ames test Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471
•	 NOEL: 100 mg/kg Method: OECD Test Guideline 407 Target Organs: Blood Information given is based on data obtained from similar substances. Test Type: Ames test Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Test Type: Mouse lymphoma assay Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476
Di-tert-butyl Polysulfide	 NOEL: 100 mg/kg Method: OECD Test Guideline 407 Target Organs: Blood Information given is based on data obtained from similar substances. Test Type: Ames test Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Test Type: Mouse lymphoma assay Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476

	SAFETY DATA SHEET
i-tert-Butyl Polysulfi	de (TBPS 454)
ersion 1.11	Revision Date 2023-09-19
	Exposure time: 2 d Dose: 2000 mg/kg/d Method: OECD Test Guideline 474 Result: negative
Reproductive toxicity	
Di-tert-butyl Polysulfide	 Species: Rat Sex: male and female Application Route: Oral Method: OECD Guideline 421 Fertility and developmental toxicity tests did not reveal any effect on reproduction. Information given is based on data obtained from similar substances.
Di-tert-Butyl Polysulfide (T Aspiration toxicity	TBPS 454) : No aspiration toxicity classification.
CMR effects	
Di-tert-butyl Polysulfide	 Carcinogenicity: Not available Teratogenicity: Animal testing did not show any effects on fetal development. Reproductive toxicity: Animal testing did not show any effects on fertility.
Di-tert-Butyl Polysulfide (T Further information	FBPS 454) : No data available.
ECTION 12: Ecological inform	nation
Toxicity to fish	
Di-tert-butyl Polysulfide	 LC50: > 0.088 mg/l Exposure time: 96 h static test Analytical monitoring: yes Method: OECD Test Guideline 203 No toxicity at the limit of solubility. Information given is based on data obtained from similar substances

Toxicity to daphnia and other aquatic invertebrates

Di-tert-butyl Polysulfide	 EC50: 0.24 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) static test Analytical monitoring: yes Method: OECD Test Guideline 202 Information given is based on data obtained from similar substances.
Toxicity to algae	
SDS Number:100000014136	9/13

substances.

Di-tert-Butyl Polysulfide (TBPS 454)

sion 1.11	Revision Date 2023-09
Di-tert-butyl Polysulfide	 EC50: 0.838 mg/l Exposure time: 96 h Species: Pseudokirchneriella subcapitata (microalgae) static test Analytical monitoring: yes Method: OECD Test Guideline 201 Information given is based on data obtained from similar substances.
M-Factor	· M Factor (Acute Acut Tau)
Polysulfides, di-tert-Bu	: M-Factor (Acute Aquat. Tox.) 1 M-Factor (Chron. Aquat. Tox.) 1
Toxicity to bacteria	
Di-tert-butyl Polysulfide	: NOEC: 45.1 mg/l Respiration inhibition
Biodegradability	
Di-tert-butyl Polysulfide	 aerobic Result: Not readily biodegradable. 13 % Testing period: 28 d Method: OECD Test Guideline 301B Information given is based on data obtained from similar substances.
Bioaccumulation	
Di-tert-butyl Polysulfide	 Species: Lepomis macrochirus (Bluegill sunfish) Exposure time: 14 d Temperature: 22 °C Bioconcentration factor (BCF): 188 Method: OECD Test Guideline 305 Does not bioaccumulate.
Mobility	
Di-tert-butyl Polysulfide	: No data available
Results of PBT assessment Di-tert-butyl Polysulfide	: No conclusion can be reached based on available information. Further testing proposed.
Additional ecological information Ecotoxicology Assessment	: Very toxic to aquatic life with long lasting effects.
Short-term (acute) aquatic haza Di-tert-butyl Polysulfide	ard : Very toxic to aquatic life.
S Number:100000014136	10/13

Di-tert-Butyl Polysulfide (TBPS 454)

Version 1.11

Revision Date 2023-09-19

Long-term (chronic) aquatic hazard Di-tert-butyl Polysulfide : Very toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

The information in this SDS pertains only to the product as shipped.

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

Product	: 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.

SECTION 14: Transport information

The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition).

Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the SDS and the bill of lading.

US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (DI-TERT-BUTYL POLYSULFIDE), 9, III

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (DI-TERT-BUTYL POLYSULFIDE), 9, III, (103 °C c.c.), MARINE POLLUTANT, (DI-TERT-BUTYL POLYSULFIDE)

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (DI-TERT-BUTYL POLYSULFIDE), 9, III

ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (DI-TERT-BUTYL POLYSULFIDE), 9, III, (-)

RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))

90,UN3082,ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (DI-TERT-

SDS Number:100000014136

11/13

Di-tert-Butyl Polysulfide (TBPS 454)

Version 1.11

Revision Date 2023-09-19

BUTYL POLYSULFIDE), 9, III

ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS) UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (DI-TERT-BUTYL POLYSULFIDE), 9, III						
Maritime transport in bulk acco	-					
SECTION 15: Regulatory informatior	1					
Notification status Europe REACH Switzerland CH INV United States of America (USA) TSCA	 This product is in full compliance according to REACH regulation 1907/2006/EC. On the inventory, or in compliance with the inventory On or in compliance with the active portion of the TSCA inventory 					
Canada DSL Australia AIIC New Zealand NZIoC	 All components of this product are on the Canadian DSL On the inventory, or in compliance with the inventory Not in compliance with the inventory 					
Japan ENCS Korea KECI	 Not in compliance with the inventory A substance(s) in this product was not registered, notified to be registered, or exempted from registration by CPChem according to K-REACH regulations. Importation or manufacture of this product is still permitted provided the Korean Importer of Record has themselves notified the substance or the exported amount does not exceed the minimum threshold quantity of the non-registered substance(s). 					
Philippines PICCS Taiwan TCSI China IECSC	 On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory 					
SECTION 16: Other information						
Further information Legacy SDS Number :	627080					
Significant changes since the last version are highlighted in the margin. This version replaces all previous versions.						
The information in this SDS pertai	The information in this SDS pertains only to the product as shipped.					
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						
SDS Number:100000014136	12/13					

Di-tert-Butyl Polysulfide (TBPS 454)

Version 1.11

Revision Date 2023-09-19

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.

k	Key or legend to abbreviations and a	cronyms use	d in the safety data sheet
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AIIC	Australian Inventory of Industrial Chemicals	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%	ATE	Acute toxicity estimate

SDS Number:100000014136