

### Liquid HE® 150 Polymer

Version 2.6

Revision Date 2025-02-20

according to GB/T 16483 and GB/T 17519

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

Product Name	<ul> <li>Liquid HE® 150 Polymer</li> <li>1122098, 1112193, 1103427, 1105173</li> <li>Oilfield Fluids Additive</li> <li>Chevron Phillips Chemical Company LP</li></ul>
Material	Drilling Specialties Company LLC
Use	10001 Six Pines Drive
<b>Company</b>	The Woodlands, TX 77380
Local	: See Company Address
Emergency telephone:	
Asia: CHEMWATCH (+	00 or 703.527.3887(int'l)
Mexico CHEMTREC 01	12 9186 1132) China: 0532 8388 9090
South America SOS-Co	800-681-9531 (24 hours)
Argentina: +(54)-11598	ec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600
EUROPE: BIG +32.14.9	9431
Austria: VIZ +43 1 406	34545 (phone) or +32.14583516 (telefax)
Belgium: 070 245 245 (	3 43 (24 hours/day, 7 days/week)
Bulgaria: +359 2 9154 2	4 hours/day, 7 days/week)
Croatia: +3851 2348 34	33
Cyprus: 1401	2 (24 hours/day, 7 days/week)
Czech Republic: Toxico	bgical Information Center +420 224 919 293, +420 224 915 402
Denmark: Danish Poiso	a Center (Giftlinjen): +45 8212 1212
Estonia: BIG +32.14.58	545 (phone) or +32.14583516 (telefax)
Finland: 0800 147 111	19 471 977 (24 hours/day)
France: ORFILA numbe	(INRS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week)
Germany: BIG +32.14.5	34545 (phone) or +32.14583516 (telefax)
Greece: (0030) 210779	777 (24 hours/day, 7 days/week)
Hungary: +36-80-201-1	9 (24 hours/day, 7 days/week)
Iceland: 543 2222 (24 h	9 (24 hours/day, 7 days/week)

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Italy: POISON CENTER MILAN – Azienda Ospedaliera Niguarda Ca` Grande Tel. +39 02 66101029; POISON CENTER ROME - Policlinico "Agostino Gemelli", Servizio di tossicologia clinica Tel. +39 06 3054343; POISON CENTER ROME - Ospedale Pediatrico Bambino Gesù Tel. +39 06 68593726; POISON CENTER ROME – Policlinico "Umberto I" Tel. +39 06 4997 8000; POISON CENTER FOGGIA - Azienda Ospedaliera Universitaria Riuniti Tel. +39 0881 732326; POISON CENTER NAPLES – Azienda Ospedaliera "Antonio Cardarelli" Tel. +39 081 7472870; POISON CENTER FLORENCE – Azienda Ospedaliera universitaria Careggi Tel. +39 055 7947819; POISON CENTER PAVIA - IRCCS Fondazione Salvatore Maugeri Tel. +39 0382 24444; POISON CENTER BERGAMO – Azienda Ospedaliera "Papa Giovanni XXIII" Tel. 800 883 300; POISON CENTER VERONA - Azienda Ospedaliera Universitaria integrata Tel. 800 011 858: Latvia: State Fire and Rescue Service, phone number: 112; Toxicology and Sepsis Clinic Poisoning and Drug Information Center, Hipokrāta 2, Riga, Latvia, LV-1038, phone number +371 67042473. (24 hours.) Liechtenstein: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Lithuania: +370 (85) 2362052 Luxembourg: (+352) 8002 5500 (24 hours/day, 7 days/week) Malta: +356 2395 2000 The Netherlands: NVIC: +31 (0)88 755 8000 Norway: 22 59 13 00 (24 hours/day, 7 days/week) Poland: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Portugal: CIAV phone number: +351 800 250 250 Romania: +40213183606 Slovakia: +421 2 5477 4166 Slovenia: Phone number: 112 Spain: National Emergency Telephone Number of Spanish Poison Centre: +34 91 562 04 20 (24 hours/day, 7 days/week) Sweden: 112 – ask for Poisons Information Responsible Department Product Safety and Toxicology Group : E-mail address SDS@CPChem.com Website www.CPChem.com **SECTION 2: Hazards identification** 

Classification of the substance or mixture GHS Classification and Labeling: Follow GB 13690, GB 15258 and GB 30000.2 to GB 30000.29 (GHS 2013) Emergency Overview

Physical state: liquid Color: White Odor: Slight hydrocarbon

Classification

Not a hazardous substance or mixture.

Labeling

Not a hazardous substance or mixture.

SECTION 3: Composition/information on ingredients			
	mat		
Synonyms	:	Liquid Acid Gelling Agent	
Molecular formula	:	Mixture	
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Chemical name		CAS-No. / EINECS-No.	Concentration [wt%]	
Distillates (petroleum), hydr	rotreated light	64742-47-8	0 - 60	
Polymerization bottoms		64741-71-5	0 - 60	
CTION 4: First aid measures	3			
General advice	: No hazaro	ds which require special first a	aid measures	
If inhaled		cious, place in recovery positi symptoms persist, call a phy		
In case of eye contact		contact lenses. Protect unhar ersists, consult a specialist.	rmed eye. If eye	
If swallowed	: Keep respiratory tract clear. Never give anything by mouth an unconscious person. If symptoms persist, call a physicia			
CTION 5: Firefighting measu	ures			
Flash point	: >=96°C ( Method: c	,		
Autoignition temperature	: 232°C (4	50°F)		
Special protective equipment for fire-fighters	: Wear self necessary	-contained breathing apparat	us for firefighting if	
Further information	measures	procedure for chemical fires. that are appropriate to local ng environment.		
Fire and explosion protection	: Normal m	Normal measures for preventive fire protection.		
CTION 6: Accidental release	emeasures			
Methods for cleaning up		vith absorbent material (e.g. c closed containers for disposal		
CTION 7: Handling and stor	age			
Handling				
Advice on safe handling		nal protection see section 8. hould be prohibited in the app		
Advice on protection against fire and explosion	: Normal m	easures for preventive fire pr	otection.	
Storage				
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Requirements for storage areas and containers	:	Electrical installations / working materials must comply with the technological safety standards.
Advice on common storage	:	No materials to be especially mentioned.
Use	:	Oilfield Fluids Additive
CTION 8: Exposure controls	s/per	sonal protection
applicable Engineering measures		
Consider the potential haza activities, and other substan personal protective equipme exposure to harmful levels of recommended. The user sh	rds o ices i ent. of this nould	irborned concentrations below the exposure guidelines/limits. If this material (see Section 2), applicable exposure limits, job in the work place when designing engineering controls and selectin of engineering controls or work practices are not adequate to preven s material, the personal protective equipment listed below is read and understand all instructions and limitations supplied with s usually provided for a limited time or under certain circumstances
Personal protective equip	men	t
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. 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.
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.
Hygiene measures	:	General industrial hygiene practice.
CTION 9: Physical and cher	nical	properties
Information on basis nhw		and chamical proportion
Information on basic phys	bical	
Appearance		
Physical state Color	:	: liquid : White
Odor		Slight hydrocarbon
Safety data		

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Flash point	: >=96°C (>=204°F) Method: closed cup
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Oxidizing properties	: No
Autoignition temperature	: 232°C (450°F)
Molecular formula	: Mixture
Molecular weight	: Not applicable
рН	: 7
Freezing point	: No data available
Boiling point/boiling range	: 224-275°C (435-527°F)
Vapor pressure	: 0.01 PSI at 25°C (77°F)
Relative density	: 0.96 at 15.6 °C (60.1 °F)
Density	: 958.6 g/l
Water solubility	: dispersible
Partition coefficient: n- octanol/water	: No data available
Viscosity, kinematic	: 79007 cSt
Relative vapor density	: 3 (Air = 1.0)
Evaporation rate	: <1
TION 10: Stability and react	tivity
Reactivity	: Stable at normal ambient temperature and pressure.
Chemical stability	: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Possibility of hazardous re	actions
Hazardous reactions	: Further information: Stable under recommended storage
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	conditions., No hazards to be specially mentioned.
Conditions to avoid	: No data available.
Other data	: No decomposition if stored and applied as directed.
FION 11: Toxicological info	ormation
Acute oral toxicity	
Distillates (petroleum), hydrotreated light	<ul> <li>LD50: &gt; 15,000 mg/kg</li> <li>Species: Rat</li> <li>Sex: male and female</li> <li>Method: OECD Test Guideline 423</li> <li>Information given is based on data obtained from similar substances.</li> </ul>
Polymerization bottoms	LD50: > 5,000 mg/kg Species: Rat
Acute inhalation toxicity	
Distillates (petroleum), hydrotreated light	<ul> <li>LC50: &gt; 4.9 mg/l Exposure time: 4 h Species: Rat Sex: male and female Test atmosphere: vapor Method: OECD Test Guideline 403 Information given is based on data obtained from similar substances.</li> </ul>
Acute dermal toxicity	
Distillates (petroleum), hydrotreated light	<ul> <li>LD50: &gt; 5,000 mg/kg</li> <li>Species: Rat</li> <li>Sex: male and female</li> <li>Method: OECD Test Guideline 402</li> <li>Information given is based on data obtained from similar substances.</li> </ul>
Polymerization bottoms	LD50: > 2,000 mg/kg Species: Rat
Skin irritation	
Distillates (petroleum), hydrotreated light	: No skin irritation Information given is based on data obtained from similar
Polymerization bottoms	substances. May irritate skin. largely based on animal evidence.
<b>Eye irritation</b> Distillates (petroleum), hydrotreated light	<ul> <li>No eye irritation Information given is based on data obtained from similar substances.</li> </ul>
Polymerization bottoms	No eye irritation. largely based on animal evidence.
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hydrotreated light       Ir         Polymerization bottoms       D         Repeated dose toxicity       Distillates (petroleum), solution is solution in the solution is solution in the solution is solution.       S         Distillates (petroleum), hydrotreated light       S       S         Polymerization bottoms       N       N         N <th>oes not cause skin sensitization. formation given is based on data obtained from similar ubstances. id not cause sensitization on laboratory animals. pecies: Rat, male and female ex: male and female pplication Route: oral gavage ose: 25, 150, 1000 mg/kg/d OEL: &gt; 1,000 mg/kg ethod: OECD Test Guideline 422 formation given is based on data obtained from similar ubstances. pecies: Rat, male and female ex: male and female ex: male and female pplication Route: Inhalation ose: 2600, 5200, 10400 mg/m3 xposure time: 13 wk</th>	oes not cause skin sensitization. formation given is based on data obtained from similar ubstances. id not cause sensitization on laboratory animals. pecies: Rat, male and female ex: male and female pplication Route: oral gavage ose: 25, 150, 1000 mg/kg/d OEL: > 1,000 mg/kg ethod: OECD Test Guideline 422 formation given is based on data obtained from similar ubstances. pecies: Rat, male and female ex: male and female ex: male and female pplication Route: Inhalation ose: 2600, 5200, 10400 mg/m3 xposure time: 13 wk
hydrotreated light Ir Polymerization bottoms D Repeated dose toxicity Distillates (petroleum), hydrotreated light S A D N N N N N N N N N N N N N N N N N N	formation given is based on data obtained from similar ubstances. id not cause sensitization on laboratory animals. pecies: Rat, male and female ex: male and female pplication Route: oral gavage ose: 25, 150, 1000 mg/kg/d OEL: > 1,000 mg/kg ethod: OECD Test Guideline 422 formation given is based on data obtained from similar ubstances. pecies: Rat, male and female ex: male and female ex: male and female pplication Route: Inhalation ose: 2600, 5200, 10400 mg/m3
Polymerization bottoms       D         Repeated dose toxicity       Distillates (petroleum), hydrotreated light       S         Distillates (petroleum), hydrotreated light       S       S         N       N       N         V       Polymerization bottoms       N         V       Polymerization bottoms       N         V       Distillates (petroleum), hydrotreated light       T	id not cause sensitization on laboratory animals. pecies: Rat, male and female ex: male and female pplication Route: oral gavage ose: 25, 150, 1000 mg/kg/d OEL: > 1,000 mg/kg ethod: OECD Test Guideline 422 formation given is based on data obtained from similar ubstances. pecies: Rat, male and female ex: male and female pplication Route: Inhalation ose: 2600, 5200, 10400 mg/m3
Distillates (petroleum), hydrotreated light : S A D N N N N N N N N N N N N N N N N N N	ex: male and female pplication Route: oral gavage ose: 25, 150, 1000 mg/kg/d OEL: > 1,000 mg/kg ethod: OECD Test Guideline 422 formation given is based on data obtained from similar ubstances. pecies: Rat, male and female ex: male and female pplication Route: Inhalation ose: 2600, 5200, 10400 mg/m3
hydrotreated light A A D N N V Ir SI S S A D E S S S A D E S S S S S S S S S S S S S S S S S S	ex: male and female pplication Route: oral gavage ose: 25, 150, 1000 mg/kg/d OEL: > 1,000 mg/kg ethod: OECD Test Guideline 422 formation given is based on data obtained from similar ubstances. pecies: Rat, male and female ex: male and female pplication Route: Inhalation ose: 2600, 5200, 10400 mg/m3
Polymerization bottoms N Genotoxicity in vitro Distillates (petroleum), : T hydrotreated light N R R	ose: 2600, 5200, 10400 mg/m3
Genotoxicity in vitro Distillates (petroleum), : T hydrotreated light M R R	umber of exposures: 6 h/d, 5 d/wk OEL: > 10400 mg/m3 ethod: OECD Test Guideline 413 formation given is based on data obtained from similar ubstances.
Distillates (petroleum), : T hydrotreated light M R R	o adverse effects expected
hydrotreated light M M R R	
	est Type: Ames test etabolic activation: with and without metabolic activation ethod: OECD Test Guideline 471 esult: negative emarks: Information given is based on data obtained from milar substances.
M M R R	est Type: Chromosome aberration test in vitro etabolic activation: with and without metabolic activation ethod: OECD Test Guideline 473 esult: negative emarks: Information given is based on data obtained from milar substances.
M M R R	est Type: In vitro mammalian cell gene mutation test etabolic activation: with and without metabolic activation ethod: OECD Test Guideline 476 esult: negative emarks: Information given is based on data obtained from milar substances.
N M	est Type: Ames test etabolic activation: with and without metabolic activation ethod: OECD Test Guideline 471 esult: negative
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Genotoxicity in vivo	
Distillates (petroleum), hydrotreated light	<ul> <li>Test Type: Micronucleus test Species: Mouse Method: OECD Test Guideline 474 Result: negative Remarks: Information given is based on data obtained from similar substances.</li> </ul>
	Test Type: Dominant lethal assay Method: OECD Test Guideline 478 Result: negative Remarks: Information given is based on data obtained from similar substances.
Polymerization bottoms	Test Type: In vivo micronucleus test Species: Mouse Method: OECD Test Guideline 474 Result: negative
Reproductive toxicity	
Distillates (petroleum), hydrotreated light	: No adverse effects expected Information given is based on data obtained from similar substances.
Polymerization bottoms	No adverse effects expected
Developmental Toxicity	
Distillates (petroleum), hydrotreated light	: No adverse effects expected Information given is based on data obtained from similar substances.
Liquid HE® 150 Polymer Aspiration toxicity	: No aspiration toxicity classification.
Liquid HE® 150 Polymer Further information	: Solvents may degrease the skin.
SECTION 12: Ecological informa	ation
Toxicity to fish	
Distillates (petroleum), hydrotreated light	<ul> <li>LL50: &gt; 88,444 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) static test Information given is based on data obtained from similar substances.</li> </ul>
Polymerization bottoms	LL50: > 1,000 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout)
Toxicity to daphnia and oth	er aquatic invertebrates
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Distillates (petroleum), hydrotreated light	<ul> <li>EL50: &gt; 1,000 mg/l</li> <li>Exposure time: 48 h</li> <li>Species: Daphnia magna (Water flea)</li> <li>static test Method: OECD Test Guideline 202</li> <li>Information given is based on data obtained from similar substances.</li> </ul>
Polymerization bottoms	EL50: > 100 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) static test Method: OECD Test Guideline 202
Toxicity to algae	
Distillates (petroleum), hydrotreated light	<ul> <li>EL50: &gt; 1,000 mg/l Exposure time: 72 h Species: Pseudokirchneriella subcapitata (algae) Growth inhibition Method: OECD Test Guideline 201 Information given is based on data obtained from similar substances.</li> </ul>
Polymerization bottoms	EL50: > 1,000 mg/l Exposure time: 96 h Species: Selenastrum capricornutum (green algae)
Toxicity to fish (Chronic t	oxicity)
Distillates (petroleum), hydrotreated light	: NOELR: > 1,000 mg/l Exposure time: 28 d Method: QSAR modeled data
Toxicity to daphnia and o	ther aquatic invertebrates (Chronic toxicity)
Distillates (petroleum), hydrotreated light	<ul> <li>NOELR: 1 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) semi-static test Method: OECD Test Guideline 211 Information given is based on data obtained from similar substances.</li> </ul>
Polymerization bottoms	: NOEC: 5 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) static renewal Method: OECD Test Guideline 211
Biodegradability	
Distillates (petroleum), hydrotreated light	: aerobic Result: Readily biodegradable. 68 % Testing period: 28 d
.,	Information given is based on data obtained from similar substances.

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Polymerization bottoms	: 0 % Testing period: 28 d This material is not expected to be readily biodegradable.			
Bioaccumulation				
Distillates (petroleum),	: This material is not expected to bioaccumulate.			
hydrotreated light Polymerization bottoms	: No data available			
Mobility				
Distillates (petroleum),	: No data available			
hydrotreated light Polymerization bottoms	: No data available			
Results of PBT assessment Polymerization bottoms	: Non-classified PBT substance, Non-classified vPvB substance			
Additional ecological information	: This material is not expected to be harmful to aquatic organisms.			
Ecotoxicology Assessment				
Short-term (acute) aquatic haz	zard			
Distillates (petroleum), hydrotreated light	: This material is not expected to be harmful to aquatic organisms.			
Polymerization bottoms	: This material is not expected to be harmful to aquatic organisms.			
Long-term (chronic) aquatic hazard				
Distillates (petroleum), hydrotreated light	: This material is not expected to be harmful to aquatic organisms.			
Polymerization bottoms	: This material is not expected to be harmful to aquatic organisms.			
SECTION 13: Disposal considera	ations			

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.

Contaminated packaging	: Empty containers should be taken to an approved waste
	handling site for recycling or disposal.

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#### **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) NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

#### **IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)**

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

#### IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

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

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

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

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

# ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

Maritime transport in bulk according to IMO instruments

#### **SECTION 15: Regulatory information**

Notification status		
Europe REACH	:	Not in compliance with the inventory
Switzerland CH INV	:	Not in compliance with the inventory
United States of America (USA)	:	All substances listed as active on the TSCA inventory
TSCA		
Canada DSL	:	All components of this product are on the Canadian
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DSL		
On the inventory, or in compliance with the inventory		

New Zealand NZIoC:Japan ENCS:Korea KECI:Philippines PICCS:Taiwan TCSI:	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 Not in compliance with the inventory Not in compliance with the inventory 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 : CPC00496

Significant changes since the last version are highlighted in the margin. This version replaces all previous versions.

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 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.

ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AIIC	Australian Inventory of Industrial	LOAEL	Lowest Observed Adverse Effe
DSL	Chemicals Canada, Domestic Substances List	NFPA	Level National Fire Protection Agence
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupatio 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 Substan
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recov
>=	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

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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

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