

Version 2.17 Revision Date 2022-08-04

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

**Product information** 

Product Name : Liquid HE® 150 Polymer

Material : 1122098, 1112193, 1103427, 1105173

Use : Oilfield Fluids Additive

Company : Chevron Phillips Chemical Company LP

**Drilling Specialties Company LLC** 

10001 Six Pines Drive The Woodlands, TX 77380

#### **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 (Giftlinjen): +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)

Germany: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Greece: (0030) 2107793777 (24 hours/day, 7 days/week) Hungary: +36-80-201-199 (24 hours/day, 7 days/week)

Iceland: 543 2222 (24 hours/day, 7 days/week)

Ireland: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Italy: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

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)

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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

This product has been classified in accordance with the hazard communication standard 29 CFR 1910.1200; the SDS and labels contain all the information as required by the standard.

#### Classification

:

Not a hazardous substance or mixture.

#### Labeling

Not a hazardous substance or mixture.

#### Carcinogenicity:

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.

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.

#### **SECTION 3: Composition/information on ingredients**

Synonyms : Liquid Acid Gelling Agent

Molecular formula : Mixture

| Component                             | CAS-No.    | Weight % |  |
|---------------------------------------|------------|----------|--|
| Distillates (petroleum), hydrotreated | 64742-47-8 | 0 - 60   |  |
| light                                 |            |          |  |
| Polymerization bottoms                | 64741-71-5 | 0 - 60   |  |

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#### **SECTION 4: First aid measures**

General advice : No hazards which require special first aid measures.

If inhaled : If unconscious, place in recovery position and seek medical

advice. If symptoms persist, call a physician.

In case of eye contact : Remove contact lenses. Protect unharmed eye. If eye

irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear. Never give anything by mouth to

an unconscious person. If symptoms persist, call a physician.

#### **SECTION 5: Firefighting measures**

Flash point : >=96°C (>=204°F)

Method: closed cup

Autoignition temperature : 232°C (450°F)

Special protective

equipment for fire-fighters

: Wear self-contained breathing apparatus for firefighting if

necessary.

Further information : Standard procedure for chemical fires. Use extinguishing

measures that are appropriate to local circumstances and the

surrounding environment.

Fire and explosion

protection

: Normal measures for preventive fire protection.

#### **SECTION 6: Accidental release measures**

Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece). Keep in

suitable, closed containers for disposal.

#### **SECTION 7: Handling and storage**

#### Handling

Advice on safe handling : For personal protection see section 8. Smoking, eating and

drinking should be prohibited in the application area.

Advice on protection

against fire and explosion

: Normal measures for preventive fire protection.

#### Storage

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.

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#### **SECTION 8: Exposure controls/personal protection**

#### **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 : Wear a supplied-air NIOSH approved respirator unless

ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure. Use a positive pressure, airsupplying respirator 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.

#### **SECTION 9: Physical and chemical properties**

#### Information on basic physical and chemical properties

**Appearance** 

Physical state : liquid Color : White

Odor : Slight hydrocarbon

Safety data

Flash point : >=96°C (>=204°F)

Method: closed cup

Lower explosion limit : No data available

Upper explosion limit : No data available

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Oxidizing properties : No

Autoignition temperature : 232°C (450°F)

Molecular formula : Mixture

Molecular weight : Not applicable

pH : 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

#### **SECTION 10: Stability and reactivity**

**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 reactions

**Hazardous reactions**: Further information: Stable under recommended storage

conditions., No hazards to be specially mentioned.

**Conditions to avoid** : No data available.

Other data : No decomposition if stored and applied as directed.

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#### **SECTION 11: Toxicological information**

Acute oral toxicity

Distillates (petroleum),

hydrotreated light

: LD50: > 15,000 mg/kg

Species: Rat

Sex: male and female

Method: OECD Test Guideline 423

Information given is based on data obtained from similar

substances.

Polymerization bottoms

LD50: > 5,000 mg/kg

Species: Rat

Acute inhalation toxicity

Distillates (petroleum), hydrotreated light

: LC50: > 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.

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**Acute dermal toxicity** 

: Acute toxicity estimate: 4,167 mg/kg

Method: Calculation method

Skin irritation

Distillates (petroleum), hydrotreated light

: No skin irritation

Information given is based on data obtained from similar

substances.

Polymerization bottoms May irritate skin. largely based on animal evidence.

Eye irritation

Distillates (petroleum), hydrotreated light

: No eye irritation

Information given is based on data obtained from similar

substances.

Polymerization bottoms No eye irritation. largely based on animal evidence.

Sensitization

Distillates (petroleum), hydrotreated light

: Does not cause skin sensitization.

Information given is based on data obtained from similar

substances.

Repeated dose toxicity

Distillates (petroleum), hydrotreated light

: Species: Rat, male and female

Sex: male and female

Application Route: oral gavage Dose: 25, 150, 1000 mg/kg/d NOEL: > 1,000 mg/kg

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Method: OECD Test Guideline 422

Information given is based on data obtained from similar

substances.

Species: Rat, male and female

Sex: male and female

Application Route: Inhalation Dose: 2600, 5200, 10400 mg/m3

Exposure time: 13 wk

Number of exposures: 6 h/d, 5 d/wk

NOEL: > 10400 mg/m3

Method: OECD Test Guideline 413

Information given is based on data obtained from similar

substances.

Polymerization bottoms No adverse effects expected

#### Genotoxicity in vitro

Distillates (petroleum), hydrotreated light

Test Type: Ames test

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Remarks: Information given is based on data obtained from

similar substances.

Test Type: Chromosome aberration test in vitro

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

Remarks: Information given is based on data obtained from

similar substances.

Test Type: In vitro mammalian cell gene mutation test Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Remarks: Information given is based on data obtained from

similar substances.

Polymerization bottoms Test Type: Ames test

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

#### Genotoxicity in vivo

Distillates (petroleum), hydrotreated light

: Test Type: Micronucleus test

Species: Mouse

Method: OECD Test Guideline 474

Result: negative

Remarks: Information given is based on data obtained from

similar substances.

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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.

**Developmental Toxicity** 

Distillates (petroleum), hydrotreated light

: No adverse effects expected

Information given is based on data obtained from similar

substances.

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**Aspiration toxicity** 

: No aspiration toxicity classification.

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Further information

: Solvents may degrease the skin.

#### **SECTION 12: Ecological information**

#### Toxicity to fish

Distillates (petroleum), hydrotreated light

: LL50: > 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.

Polymerization bottoms

LL50: > 1,000 mg/l Exposure time: 96 h

Species: Oncorhynchus mykiss (rainbow trout)

#### Toxicity to daphnia and other aquatic invertebrates

Distillates (petroleum),

: EL50: > 1,000 mg/l Exposure time: 48 h

hydrotreated light

Species: Daphnia magna (Water flea)

static test Method: OECD Test Guideline 202

Information given is based on data obtained from similar

substances.

Polymerization bottoms

EL50: > 100 mg/l

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Exposure time: 48 h

Species: Daphnia magna (Water flea) static test Method: OECD Test Guideline 202

Toxicity to algae

Distillates (petroleum), : EL50: > 1,000 mg/l hydrotreated light 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.

Polymerization bottoms EL50: > 1,000 mg/l

Exposure time: 96 h

Species: Selenastrum capricornutum (green algae)

### **Toxicity to fish (Chronic toxicity)**

Distillates (petroleum), : NOELR: > 1,000 mg/l hydrotreated light Exposure time: 28 d

Method: QSAR modeled data

#### Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

Distillates (petroleum), : NOELR: 1 mg/l hydrotreated light 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.

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), : aerobic

hydrotreated light Result: Readily biodegradable.

68 %

Testing period: 28 d

Information given is based on data obtained from similar

substances.

Polymerization bottoms : 0 %

Testing period: 28 d

This material is not expected to be readily biodegradable.

Bioaccumulation

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Distillates (petroleum),

hydrotreated light

: This material is not expected to bioaccumulate.

Polymerization bottoms : No data available

Mobility

Distillates (petroleum),

hydrotreated light

: No data available

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 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.

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 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.

Contaminated packaging : Empty containers should be taken to an approved waste

handling site for recycling or disposal.

#### **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

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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**

**National legislation** 

SARA 311/312 Hazards : No SARA Hazards

CERCLA Reportable

Quantity

: Calculated RQ exceeds reasonably attainable upper limit.

Acrylamide

SARA 302 Reportable

Quantity

: Calculated RQ exceeds reasonably attainable upper limit.

Acrylamide

SARA 302 Threshold : This material does not contain any components with a section

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Planning Quantity 302 EHS TPQ.

SARA 304 Reportable

Quantity

: Calculated RQ exceeds reasonably attainable upper limit.

Acrylamide 79-06-1 5000 lbs

SARA 313 Components : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### Clean Air Act

Ozone-Depletion

Potential

: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR

82, Subpt. A, App.A + B).

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

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

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

#### **US State Regulations**

Pennsylvania Right To Know

: Acrylamide - 79-06-1

California Prop. 65

Components

: WARNING: This product contains a chemical known in the State of California to cause birth defects or other reproductive

harm.

Acrylamide 79-06-1

**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

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**TSCA** 

Canada DSL : All components of this product are on the Canadian

DSL

Other AIIC : On the inventory, or in compliance with the inventory

New Zealand NZIoC : Not in compliance with the inventory Japan ENCS : Not in compliance with the inventory Korea KECI : Not in compliance with the inventory

Philippines PICCS : On the inventory, or in compliance with the inventory Taiwan TCSI : On the inventory, or in compliance with the inventory China IECSC : On the inventory, or in compliance with the inventory

#### **SECTION 16: Other information**

NFPA Classification : Health Hazard: 1

Fire Hazard: 1 Reactivity Hazard: 0



**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.

| Key or legend to abbreviations and acronyms used in the safety data sheet |                                                         |       |                                                         |  |  |
|---------------------------------------------------------------------------|---------------------------------------------------------|-------|---------------------------------------------------------|--|--|
| ACGIH                                                                     | American Conference of Government Industrial Hygienists | LD50  | Lethal Dose 50%                                         |  |  |
| AICS                                                                      | Australia, Inventory of Chemical Substances             | LOAEL | Lowest Observed Adverse Effect<br>Level                 |  |  |
| DSL                                                                       | Canada, Domestic Substances<br>List                     | NFPA  | National Fire Protection Agency                         |  |  |
| NDSL                                                                      | Canada, Non-Domestic<br>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<br>Level                   |  |  |
| EC50                                                                      | Effective Concentration 50%                             | NOEC  | No Observed Effect Concentration                        |  |  |
| EGEST                                                                     | EOSCA Generic Exposure<br>Scenario Tool                 | OSHA  | Occupational Safety & Health Administration             |  |  |
| EOSCA                                                                     | European Oilfield Specialty<br>Chemicals Association    | PEL   | Permissible Exposure Limit                              |  |  |
| EINECS                                                                    | European Inventory of Existing Chemical Substances      | PICCS | Philippines Inventory of Commercial Chemical Substances |  |  |

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| 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,<br>Complex Reaction Products, and<br>Biological Materials |
| <=    | Less Than or Equal To                                    | WHMIS | Workplace Hazardous Materials<br>Information System                                        |
| LC50  | Lethal Concentration 50%                                 |       |                                                                                            |

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