

## Marlex® 9512H Polyethylene

Version 3.4

Revision Date 2024-08-29

## SECTION 1: Identification of the substance/mixture and of the company/undertaking **Product information** Product Name : Marlex® 9512H Polvethylene 1121414, 1121413, 1121379, 1038691, 1038683, 1040906, Material 1040907, 1038681, 1038707, 1038705, 1039148, 1038699, 1039147, 1038689, 1038697 Company : Chevron Phillips Chemical Company LP 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 (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) 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) SDS Number:10000000614 1/12

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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 : MEDICAL APPLICATION CAUTION: Do not use this material in medical applications involving permanent implantation in the human body or permanent contact with internal body fluids or tissues fluids or tissues. Do not use this material in medical applications involving brief or temporary implantation in the human body or contact with internal body fluids or tissues unless the material has been provided directly from Chevron Phillips Chemical Company LP or its legal affiliates under an agreement which expressly acknowledges the contemplated use. Chevron Phillips Chemical Company LP and its legal affiliates makes no representation, promise,

express warranty or implied warranty concerning the suitability of this material for use in implantation in the human body or in contact with internal body fluids or tissues.

#### **SECTION 2: Hazards identification**

	nce or mixture ied in accordance with the hazard communication standard 29 CFR els contain all the information as required by the standard.
Classification	: Combustible dust
Labeling	
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Signal Word	: Warning
Hazard Statements	: May form combustible dust concentrations in air. While this product may not be a combustible dust as sold, further processing or handling may form combustible dust concentration in air.
Potential Health Effects	
Physical Hazards	<ul> <li>Pellets may cause a slip hazard on hard surfaces.</li> <li>Mechanical processing may form combustible dust concentrations in air and thermal processing at elevated</li> </ul>
Inhalation	<ul> <li>temperatures may generate formaldehyde.</li> <li>Repeated exposure to dust from this material may cause respiratory irritation.</li> <li>Fumes generated during thermal processing may cause irritation of the upper respiratory tract.</li> </ul>
Skin	<ul> <li>Contact with the skin is not expected to cause prolonged or significant irritation.</li> <li>Contact with the skin is not expected to cause an allergic response.</li> <li>If this material is heated, thermal burns may result from contact.</li> <li>Thermal burns may include pain or feeling of heat,</li> </ul>
Eyes	<ul> <li>discolorations, swelling, and blistering.</li> <li>Contact with the eyes may cause irritation due to the abrasive action.</li> <li>Not expected to cause prolonged or significant eye irritation.</li> </ul>
Ingestion	<ul><li>Thermal burns may result if heated material contacts eye.</li><li>Ingestion of this product is not a likely route of exposure.</li></ul>
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/infe	ormation on ingredients
Component	CAS-No. Weight %
Polyethylene Hexene Cop	olymer 25213-02-9 99 - 100
SECTION 4: First aid measure	es
SECTION 4: First and measure	
If inhaled	: Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. If symptoms persist, call a physician.
	fumes from overheating or combustion. If symptoms persist,

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		material from the skin or use solvents or thinners to dissolve it.
In case of eye contact	:	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
If swallowed	:	Do not induce vomiting without medical advice.
TION 5: Firefighting measu	res	
Flash point	:	No data available
Autoignition temperature	:	No data available
Suitable extinguishing media	:	Water. Water mist. Dry chemical. Carbon dioxide (CO2). Foam. If possible, water should be applied as a spray from a fogging nozzle since this is a surface burning material. The application of high velocity water will spread the burning surface layer. Avoid the use of straight streams that may create a dust cloud and the risk of a dust explosion. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Specific hazards during fire fighting	:	Risks of ignition followed by flame propagation or secondary explosions can be caused by the accumulation of dust, e.g. on floors and ledges.
Special protective equipment for fire-fighters	:	Use personal protective equipment. Wear self-contained breathing apparatus for firefighting if necessary.
Further information	:	This material will burn although it is not easily ignited.
Fire and explosion protection	:	Treat as a solid that can burn. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
Hazardous decomposition products	:	Normal combustion forms carbon dioxide, water vapor and may produce carbon monoxide, other hydrocarbons and hydrocarbon oxidation products (ketones, aldehydes, organic acids) depending on temperature and air availability. Incomplete combustion can also produce formaldehyde.
TION 6: Accidental release	me	asures
Personal precautions	:	Sweep up to prevent slipping hazard. Avoid breathing dust. Avoid dust formation.
Environmental precautions	:	Do not contaminate surface water. Prevent product from entering drains.
Methods for cleaning up	:	Clean up promptly by sweeping or vacuum.
Additional advice	:	Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid
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dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).

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

Handling		
Advice on safe handling	:	Use good housekeeping for safe handling of the product. Keep out of water sources and sewers. Spilled pellets may create a slipping hazard. Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary, but may not by themselves be sufficient. At elevated temperatures (>350°F, >177°C), polyethylene can release vapors and gases, which are irritating to the mucous membranes of the eyes, mouth, throat, and lungs. These substances may include acetaldehyde, acetone, acetic acid, formic acid, formaldehyde and acrolein. Based on animal data and limited epidemiological evidence, formaldehyde has been listed as a carcinogen. Following all recommendations within this SDS should minimize exposure to thermal processing emissions.
Advice on protection against fire and explosion	:	Treat as a solid that can burn. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
Storage		
Requirements for storage areas and containers	:	Keep in a dry place. Keep in a well-ventilated place.
Advice on common storage	:	Do not store together with oxidizing and self-igniting products.

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

#### Ingredients with workplace control parameters

#### US

Components	Basis	Value	Control parameters	Note
Nuisance Dust	OSHA Z-3	TWA	15 mg/m3	Total dust
	OSHA Z-3	TWA	5 mg/m3	(respirable dust)

Control as Particulate Not Otherwise Classified (PNOC). The ACGIH Guideline\* for respirable dust is 3.0 mg/m3 and 10.0 mg/m3 for total dust. The OSHA PEL for respirable dust is 5.0 mg/m3 and 15.0 mg/m3 for total dust.

\* This value is for inhalable (total) particulate matter containing no asbestos and < 1.0% crystalline silica.

#### **Engineering measures**

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.

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Autoignition temperature Thermal decomposition pH Melting point/ range	<ul> <li>Low molecular weight hydrocarbons, alcohols, aldehydes, acids and ketones can be formed during thermal processing</li> <li>Not applicable</li> <li>90-140°C (194-284°F)</li> </ul>
Autoignition temperature	
	: No data available
Upper explosion limit	: Not applicable
Lower explosion limit	: Not applicable
Safety data Flash point	: No data available
Odor Threshold	: No data available
Physical state Color Odor	: solid : Opaque : Mild to no odor
Appearance Form	: Pellets
Information on basic phys	sical and chemical properties
TION 9: Physical and chen	nical properties
	good industrial practice. If the material is heated or molten, wear thermally insulated, heat-resistant gloves that are able t withstand the temperature of the molten product. If this material is heated, wear insulated clothing to prevent skin contact if engineering controls or work practices are not adequate.
Skin and body protection	: At ambient temperatures use of clean and protective clothing
Eye protection	: Use of safety glasses with side shields for solid handling is good industrial practice. If this material is heated, wear chemical goggles or safety glasses with side shields or a face shield. If there is potential for dust, use chemical goggles.
	<ul> <li>material generates vapor or fumes that are not adequately controlled by ventilation, wear an appropriate respirator. Use the following elements for air-purifying respirators: Organic Vapor and Formaldehyde. 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.</li> <li>Dust safety masks are recommended when the dust concentration is excessive.</li> </ul>
	: No respiratory protection is normally required. If heated

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Freezing point		Not applicable
Initial boiling point and boiling range	:	Not applicable
Vapor pressure	:	Not applicable
Relative density	:	Not applicable
Density	:	0.91 - 0.97 g/cm3 Please refer to the Technical Data Sheet (TDS) for more detailed information relating to the nominal physical properties, including density, of this polyethylene resin grade.
Water solubility	:	negligible
Partition coefficient: n- octanol/water	:	No data available
Solubility in other solvents	:	No data available
Viscosity, dynamic	:	Not applicable
Viscosity, kinematic	:	Not applicable
Relative vapor density	:	Not applicable
Evaporation rate	:	Not applicable
CTION 10: Stability and reacti	vity	1
CTION 10: Stability and reacti Reactivity		This material is considered non-reactive under normal ambient and anticipated storage and handling conditions of temperature and pressure.
	:	This material is considered non-reactive under normal ambient and anticipated storage and handling conditions of
Reactivity	:	This material is considered non-reactive under normal ambient and anticipated storage and handling conditions of temperature and pressure. This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Reactivity Chemical stability	: :	This material is considered non-reactive under normal ambient and anticipated storage and handling conditions of temperature and pressure. This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Reactivity Chemical stability Possibility of hazardous rea	: : :	This material is considered non-reactive under normal ambient and anticipated storage and handling conditions of temperature and pressure. This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Reactivity Chemical stability Possibility of hazardous rea Hazardous reactions	: : :	This material is considered non-reactive under normal ambient and anticipated storage and handling conditions of temperature and pressure. This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. <b>Dns</b> Hazardous reactions: None known.
Reactivity Chemical stability Possibility of hazardous rea Hazardous reactions Conditions to avoid	: : : : :	This material is considered non-reactive under normal ambient and anticipated storage and handling conditions of temperature and pressure. This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. <b>Dns</b> Hazardous reactions: None known. Avoid prolonged storage at elevated temperature.
Reactivity Chemical stability Possibility of hazardous rea Hazardous reactions Conditions to avoid Materials to avoid	: : : : :	This material is considered non-reactive under normal ambient and anticipated storage and handling conditions of temperature and pressure. This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. <b>Dns</b> Hazardous reactions: None known. Avoid prolonged storage at elevated temperature. Avoid contact with strong oxidizing agents. Low molecular weight hydrocarbons, alcohols, aldehydes,

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Mobility	: The product is insoluble and floats on water.
Additional ecological information	: This material is not expected to be harmful to aquatic organisms., Fish or birds may eat pellets which may obstruct their digestive tracts.
Ecotoxicology Assessment	
Short-term (acute) aquatic hazard	: This product has no known ecotoxicological effects.
Long-term (chronic) aquatic hazard	: This product has no known ecotoxicological 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.

#### **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**

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DANGEROUS GOODS (EU NOT REGULATED AS A TRANSPORTATION BY	HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR
OF DANGEROUS GOODS I	HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR
Maritime transport in bulk CTION 15: Regulatory inform	according to IMO instruments
National legislation	
SARA 311/312 Hazards	: Combustible dust
CERCLA Reportable Quantity	: This material does not contain any components with a CERCLA RQ.
SARA 302 Reportable Quantity	: This material does not contain any components with a SARA 302 RQ.
SARA 302 Threshold Planning Quantity SARA 304 Reportable Quantity	<ul> <li>No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.</li> <li>This material does not contain any components with a section 304 EHS RQ.</li> </ul>
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	
Potential Class	roduct neither contains, nor was manufactured with a Class I or II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR bpt. A, App.A + B).
This product does not contain Act Section 112 (40 CFR 61)	n any hazardous air pollutants (HAP), as defined by the U.S. Clean Ai
This product does not contain	n any chemicals listed under the U.S. Clean Air Act Section 112(r) for
Accidental Release Prevention	on (40 CFR 68.130, Subpart F).

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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	
	No components are subject to the Pennsylvania Right to Know Act.
Components	This product, as shipped, does not contain any carcinogens or reproductive toxins presently known by the State of California to cause cancer or reproductive toxicity at a level of exposure subject to the requirements of California Proposition 65.
Notification status Europe REACH Switzerland CH INV United States of America (USA) TSCA Canada DSL Australia AIIC New Zealand NZIoC Japan ENCS Korea KECI Philippines PICCS Taiwan TCSI China IECSC	<ul> <li>This product is in full compliance according to REACH regulation 1907/2006/EC.</li> <li>On the inventory, or in compliance with the inventory</li> <li>On or in compliance with the active portion of the TSCA inventory</li> <li>All components of this product are on the Canadian DSL</li> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> </ul>
SECTION 16: Other information	
	Health Hazard: 0 Fire Hazard: 1 Reactivity Hazard: 0
Further information	
Legacy SDS Number :	240370

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

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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%
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