

## Ethylene 99.8% Grade

Version 2.0 Revision Date 2025-12-17

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

#### **Product information**

Product Name : Ethylene 99.8% Grade

Material : 1083870, 1085526, 1100705, 1015414

Use : Feedstock

Company : Chevron Phillips Chemical Company LP

9500 Lakeside Blvd. The Woodlands, TX 77381

#### **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: POISON CENTER MILÂN – 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;

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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

Organization that prepared

: Product Safety and Toxicology Group

the SDS

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

: Flammable gases, Category 1A Gases under pressure, Liquefied gas

Specific target organ toxicity - single exposure, Category 3,

Central nervous system

#### Labeling

Symbol(s)







Signal Word : Danger

Hazard Statements : H220: Extremely flammable gas.

H280: Contains gas under pressure; may explode if heated.

H336: May cause drowsiness or dizziness.

Precautionary Statements : Prevention:

P210 Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking.

P261 Avoid breathing gas.

P271 Use only outdoors or in a well-ventilated area.

Response:

P304 + P340 + P312 IF INHALED: Remove person to fresh

air and keep comfortable for breathing. Call a POISON

CENTER/ doctor if you feel unwell.

P377 Leaking gas fire: Do not extinguish, unless leak can be

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stopped safely.

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P381 In case of leakage, eliminate all ignition sources.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container

tightly closed.

P405 Store locked up.

P410 + P403 Protect from sunlight. Store in a well-ventilated

place.
Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

#### **Potential Health Effects**

Symptoms of Overexposure

: No data available

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 : Ethene

Ethylene HP (UNODORIZED) or ETHYLENE 99.8% GRADE

Ethylene HP (Unodorized)

Molecular formula : C2H4

Component	CAS-No.	Weight %
Ethylene	74-85-1	99.8 - 100

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

General advice : Move out of dangerous area. Show this material safety data

sheet to the doctor in attendance.

If inhaled : Consult a physician after significant exposure. If unconscious,

place in recovery position and seek medical advice.

In case of eye contact : Flush eyes with water as a precaution. Remove contact

lenses. Protect unharmed eye. Keep eye wide open while

rinsing. If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear. Do not give milk or alcoholic

beverages. Never give anything by mouth to an unconscious

person. If symptoms persist, call a physician.

Notes to physician

Symptoms : No data available.

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Risks : No data available.

Treatment : Treat symptomatically.

## **SECTION 5: Firefighting measures**

Flash point : -136°C (-213°F)

Method: closed cup

Autoignition temperature : 490°C (914°F)

Suitable extinguishing

media

: Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical.

Unsuitable extinguishing

media

: High volume water jet.

Special protective

equipment for fire-fighters

: Wear self-contained breathing apparatus for firefighting if

necessary.

Further information : For safety reasons in case of fire, cans should be stored

separately in closed containments. Use a water spray to cool

fully closed containers.

Fire and explosion

protection

: Do not spray on a naked flame or any incandescent material.

Take necessary action to avoid static electricity discharge

(which might cause ignition of organic vapors). Use only

(which might cause ignition of organic vapors). Use only explosion-proof equipment. Keep away from open flames, hot

surfaces and sources of ignition.

Hazardous decomposition

products

: Methane. Hydrogen.

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

Personal precautions : Ensure adequate ventilation. Remove all sources of ignition.

Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can

accumulate in low areas.

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.

#### SECTION 7: Handling and storage

#### Handling

Advice on safe handling : Do not breathe vapors/dust. Avoid exposure - obtain special

instructions before use. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and

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national regulations.

Advice on protection against fire and explosion

Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.

#### Storage

Requirements for storage areas and containers

: Prevent unauthorized access. No smoking. Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

Use : Feedstock

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

#### Ingredients with workplace control parameters

#### US

ı	Components	Basis	Value	Control parameters	Note
١	Ethylene	ACGIH	TWA	200 ppm,	A4,

A4 Not classifiable as a human carcinogen

#### **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.

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Eye protection : Eye wash bottle with pure water. Safety glasses.

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:. Flame retardant antistatic protective clothing. Workers should wear antistatic

footwear.

Hygiene measures : Wash hands before breaks and at the end of workday.

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

#### Information on basic physical and chemical properties

**Appearance** 

Form : Liquefied gas
Physical state : Gaseous
Color : Colorless
Odor : Sweet Olefinic
Odor Threshold : 270 ppm

Safety data

Flash point : -136°C (-213°F)

Method: closed cup

Lower explosion limit : 2.7 %(V)

Upper explosion limit : 36 %(V)

Autoignition temperature : 490°C (914°F)

Molecular formula : C2H4

Molecular weight : 28.04 g/mol

pH : Not applicable

Freezing point : -169°C (-272°F)

Boiling point/boiling range : -103.9°C (-155.0°F)

Vapor pressure : 51.00 bar

at 10°C (50°F)

Relative density : 0.57

at -103.9 °C (-155.0 °F)

Water solubility : 130 mg/l

Solubility in other solvents : Soluble in hydrocarbons

Viscosity, kinematic : Not applicable

Relative vapor density : 0.98

(Air = 1.0)

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Evaporation rate : No data available

Percent volatile : > 99 %

**SECTION 10: Stability and reactivity** 

**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 reactions

Hazardous reactions : Hazardous polymerization does not

occur.

Hazardous reactions: Vapors may form explosive mixture with

air.

**Conditions to avoid** : Heat, flames and sparks.

Materials to avoid : May react with oxygen and strong oxidizing agents, such as

chlorates, nitrates, peroxides, etc.

Hazardous decomposition

products

: Methane

Hydrogen

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

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

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Acute oral toxicity : Negligible or unlikely exposure pathways

Acute inhalation toxicity

Ethylene : LC50: > 65.4 mg/l

Exposure time: 4 h Species: Rat Sex: male

Test atmosphere: gas

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Acute dermal toxicity : Negligible or unlikely exposure pathways

Skin irritation

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Ethylene : Contact with liquid or refrigerated gas can cause cold burns

and frostbite.

Eye irritation

Ethylene : Contact with liquid or refrigerated gas can cause cold burns

and frostbite.

Genotoxicity in vitro

Ethylene : Test Type: Ames test

Test system: TA100

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Test Type: Chromosome aberration test in vitro Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

Genotoxicity in vivo

Ethylene : Test Type: Micronucleus test

Species: Rat

Route of Application: inhalation (gas) Exposure time: 5 days and 13 weeks

Dose: 10000 ppm Result: negative

Test Type: Micronucleus test

Species: Rat

Route of Application: inhalation (gas)

Exposure time: 4 weeks Dose: 40, 1000, 3000 ppm

Method: OECD Test Guideline 474

Result: negative

Carcinogenicity

Ethylene : Species: Rat

Dose: 0. 300, 1000, 3000 ppm

Exposure time: 2 yrs

Number of exposures: 6 h/d, 5 d/wk Remarks: no increase incidence of tumors

Reproductive toxicity

Ethylene : Species: Rat

Application Route: Inhalation Dose: 0. 200, 1000, 5000 ppm Number of exposures: 6 h/d NOAEL Parent: 5000 ppm NOAEL F1: 5000 ppm no abnormalities observed

**Developmental Toxicity** 

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Ethylene : Species: Rat

Application Route: Inhalation
Dose: 0. 200, 1000, 5000 ppm
Number of exposures: 6 h/d
NOAEL Teratogenicity: 5000 ppm
NOAEL Maternal: 5000 ppm
No toxicity to reproduction

Animal testing did not show any effects on fertility.

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**Aspiration toxicity** : No aspiration toxicity classification.

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**Further information** : Symptoms of overexposure may be headache, dizziness,

tiredness, nausea and vomiting. Concentrations substantially above the TLV value may cause narcotic effects. Solvents

may degrease the skin.

## **SECTION 12: Ecological information**

#### **Ecotoxicity effects**

Biodegradability

Ethylene : This material is expected to be readily biodegradable.

Elimination information (persistence and degradability)

Bioaccumulation

Ethylene : Bioaccumulation is unlikely.

Mobility : No data available

Additional ecological

information

: No data available

## **Ecotoxicology Assessment**

Short-term (acute) aquatic

hazard

: This material is not expected to be harmful to aquatic

organisms.

Long-term (chronic) aquatic

hazard

: 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.

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Product : Do not dispose of waste into sewer. 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. Do not burn, or use a cutting

torch on, the empty drum.

#### **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)**

UN1962, ETHYLENE, 2.1

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

UN1962, ETHYLENE, 2.1, (-136 °C c.c.)

#### IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

UN1962, ETHYLENE, 2.1

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

UN1962, ETHYLENE, 2.1, (B/D)

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

23,UN1962,ETHYLENE, 2.1

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

UN1962, ETHYLENE, 2.1

Maritime transport in bulk according to IMO instruments

## **SECTION 15: Regulatory information**

**National legislation** 

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)

Gases under pressure

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Specific target organ toxicity (single or repeated exposure)

CERCLA Reportable

Quantity

: Calculated RQ exceeds reasonably attainable upper limit.

Methanol

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

: This material does not contain any components with a section

302 EHS TPQ.

: This material does not contain any components with a section

304 EHS RQ.

: The following components are subject to reporting levels SARA 313 Components

established by SARA Title III, Section 313:

Ethylene - 74-85-1

#### 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).

The following chemical(s) are listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F):

: Ethylene - 74-85-1

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

: Ethylene - 74-85-1

#### **US State Regulations**

Pennsylvania Right To Know

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: Ethylene - 74-85-1

California Prop. 65 Components : WARNING: This product can expose you to chemicals including [listed below], which is [are] known to the State of California to cause birth defects or other reproductive harm. For more

information go to www.P65Warnings.ca.gov.

Methanol 67-56-1

**Notification status** 

Europe REACH : Not in compliance with the inventory Switzerland CH INV : Not in compliance with the inventory

United States of America (USA) : On or in compliance with the active portion of the

TSCA TSCA inventory

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

DSL

Australia AIIC : On the inventory, or in compliance with the inventory New Zealand NZIoC : On the inventory, or in compliance with the inventory Japan ENCS : On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory

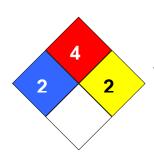
Korea KECI : Not in compliance with the inventory

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

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

NFPA Classification : Health Hazard: 2

Fire Hazard: 4
Reactivity Hazard: 2



**Revision Date** 2025-12-17 **Date of last issue** 2022-09-06

**Further information** 

Legacy SDS Number : 1852

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

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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			

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