

Version 1.9 Revision Date 2023-02-22

according to GB/T 16483 and GB/T 17519

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

#### **Product information**

Product Name : AlphaPlus® C20-24

Material : 1126033, 1126032, 1037057, 1083291, 1059406, 1059404,

1036985, 1037058

Company : Chevron Phillips Chemical Company LP

Normal Alpha Olefins (NAO) 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 GHS Classification and Labeling: Follow GB 13690, GB 15258 and GB 30000.2 to GB 30000.29

Emergency Overview

Danger

(GHS 2011)

Form: Wax., solid Physical state: solid Color: White

Hazards : May be fatal if swallowed and enters airways.

Classification

: Aspiration hazard, Category 1

Labeling

Symbol(s) :

Signal Word : Danger

Hazard Statements : H304: May be fatal if swallowed and enters airways.

Precautionary Statements : Response:

P301+P310: IF SWALLOWED: Immediately call a POISON

CENTER/doctor.

Storage:

P405: Store locked up.

Disposal:

P501: Dispose of contents/ container to an approved waste

disposal plant.

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

Synonyms : NAO 20-24

C20-24 Alpha Olefin Fraction

Molecular formula : UVCB

Chemical name	CAS-No. / EINECS-No.	Concentration [wt%]
Alkenes, C20-24 α-	93924-10-8	100
1-Eicosene	3452-07-1	35 - 55
1-Docosene	1599-67-3	25 - 45
1-Tetracosene	10192-32-2	10 - 26
1-Hexacosene	18835-33-1	0 - 2
1-Octadecene	112-88-9	0 - 0.1

#### **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 skin contact : If skin irritation persists, call a physician. If on skin, rinse well

with water. If on clothes, remove clothes.

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.

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

Flash point : 183°C (361°F)

Method: PMCC

Autoignition temperature : 239°C (462°F)

Unsuitable extinguishing

media

: High volume water jet.

Specific hazards during fire

fighting

Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Special protective equipment for fire-fighters

: Wear self-contained breathing apparatus for firefighting if

necessary.

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Further information : Standard procedure for chemical fires. Use extinguishing

measures that are appropriate to local circumstances and the

surrounding environment.

Fire and explosion

protection

Provide appropriate exhaust ventilation at places where dust is

formed.

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

Personal precautions : Use personal protective equipment. Avoid dust formation.

Avoid breathing dust.

Environmental precautions : Prevent further leakage or spillage if safe to do so. If the

product contaminates rivers and lakes or drains inform

respective authorities.

Methods for cleaning up : Keep in suitable, closed containers for disposal.

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

#### Handling

Advice on safe handling : Avoid contact with skin and eyes. For personal protection see

section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance

with local and national regulations.

Advice on protection

against fire and explosion

Provide appropriate exhaust ventilation at places where dust is

formed.

#### Storage

Requirements for storage areas and containers

Keep container tightly closed in a dry and well-ventilated place.
 Electrical installations / working materials must comply with the

technological safety standards.

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

Not applicable

#### **Engineering measures**

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

#### Personal protective equipment

Respiratory protection : If ventilation or other engineering controls are not adequate to

maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure, a supplied-air NIOSH approved

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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:. Air-Purifying Respirator for Organic Vapors, Dusts and Mists. 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. 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:. Protective suit.

Safety shoes.

Hygiene measures : When using do not eat or drink. When using do not smoke.

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 : Wax., solid
Physical state : solid
Color : White

Safety data

Flash point : 183°C (361°F)

Method: PMCC

Lower explosion limit : No data available

Upper explosion limit : No data available

Oxidizing properties : no

Autoignition temperature : 239°C (462°F)

Molecular formula : UVCB

Molecular weight : Varies

pH : Not applicable

Melting point/range : 35°C (95°F)

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Pour point No data available

Boiling point/boiling range : 342-390°C (648-734°F)

Vapor pressure : < 0.01 kPa

at 65°C (149°F)

Relative density : 0.8

at 15.6 °C (60.1 °F)

Density : 815 kg/m3

at 15°C (59°F)

792 kg/m3 at 50°C (122°F)

Water solubility : Soluble in hydrocarbon solvents; insoluble in water.

Partition coefficient: n-

octanol/water

: No data available

Viscosity, kinematic : 6.356 cSt

at 40°C (104°F)

Relative vapor density : Not applicable

Evaporation rate : Not applicable

#### **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: No decomposition if stored and applied as

directed.

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

Materials to avoid : No data available.

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

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

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Acute oral toxicity : LD50 Oral: > 5,000 mg/kg

Species: Rat

Sex: male and female

Method: OECD Test Guideline 423

Test substance: yes

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Acute inhalation toxicity : LC50: 110.1 mg/LExposure time: 4 h

Species: Rat Sex: male

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 : LD50 Dermal: > 2,000 mg/kg

Species: Rat

Sex: male and female

Method: OECD Test Guideline 402

Information given is based on data obtained from similar

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substances.

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**Skin irritation** : No skin irritation.

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**Eye irritation**: No eye irritation. Information given is based on data obtained

from similar substances.

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**Sensitization** : Did not cause sensitization on laboratory animals.

Repeated dose toxicity

Alkenes, C20-24 α- : Species: Rat, Male and female

Sex: Male and female

Application Route: oral gavage Dose: 100, 500, 1000 mg/kg/d Exposure time: 42-51 days Number of exposures: Daily NOEL: 1000 mg/kg bw/day Method: OECD Guideline 422

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Species: Rat, Male and female

Sex: Male and female

Application Route: oral gavage Dose: 100, 500, 1000 mg/kg/d Exposure time: 13 weeks Number of exposures: 7 d/wk NOEL: 1000 mg/kg bw/day Method: OCED Guideline 408

Species: Rat, Male and female

Sex: Male and female Application Route: Inhalation Dose: 300, 1000, 3000 ppm Exposure time: 13 weeks

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

NOEL: 3000 ppm

Method: OECD Guideline 413

1-Octadecene Species: rat (female)

Application Route: oral gavage Dose: 0, 100, 500, 1000 mg/kg/d

NOEL: 1,000 mg/kg

Method: OECD Guideline 422

Information given is based on data obtained from similar

substances.

#### Genotoxicity in vitro

Alkenes, C20-24  $\alpha$ - : Test Type: Ames test

Metabolic activation: with and without metabolic activation

Result: negative

Test Type: Ames test

Metabolic activation: with and without metabolic activation

Result: negative

Test Type: Mammalian cell gene mutation assay

Metabolic activation: with and without metabolic activation

Method: OECD Guideline 476

Result: negative

Test Type: Chromosome aberration test in vitro

Result: negative

1-Octadecene Test Type: Ames test

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Test Type: Chromosome aberration test in vitro

Test system: rodent hepatocytes Method: OECD Test Guideline 473

Result: negative

Genotoxicity in vivo

Alkenes, C20-24 α- : Test Type: Mouse micronucleus assay

Species: Mouse

Exposure time: 500, 1,000, 2,000 mg/kg

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Method: Mutagenicity (micronucleus test)

Result: negative

Test Type: Mouse micronucleus assay

Species: Mouse

Exposure time: 1,000, 10,000, 25,000 ppm Method: Mutagenicity (micronucleus test)

Result: negative

#### Reproductive toxicity

Alkenes, C20-24 α- : Species: Rat

Sex: male and female

Application Route: oral gavage Dose: 100, 500, 1000 mg/kg/day Number of exposures: Daily Test period: 41-55 days Method: OECD Guideline 422 NOAEL Parent: 1000 mg/kg bw/day NOAEL F1: 1000 mg/kg bw/day

Species: Rat

Sex: male and female

Application Route: oral gavage Dose: 100, 500, 1000 mg/kg/d Number of exposures: Daily Test period: 42-51days Method: OECD Guideline 421 NOAEL Parent: 1000 mg/kg bw/day NOAEL F1: 1000 mg/kg bw/day

1-Octadecene Species: Rat

Sex: male and female

Application Route: oral gavage Dose: 0, 100, 500, 1000 mg/kg/d Method: OECD Guideline 421 NOAEL Parent: 1,000 mg/kg NOAEL F1: 1,000 mg/kg

Information given is based on data obtained from similar

substances.

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**Aspiration toxicity** : May be fatal if swallowed and enters airways.

**CMR** effects

Alkenes, C20-24 α- : Carcinogenicity: Not available

Mutagenicity: Did not show mutagenic effects in animal

experiments.

Teratogenicity: Did not show teratogenic effects in animal

experiments.

Reproductive toxicity: No toxicity to reproduction

1-Octadecene Carcinogenicity: Not available

Mutagenicity: Tests on bacterial or mammalian cell cultures

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did not show mutagenic effects. Teratogenicity: Not available

Reproductive toxicity: No toxicity to reproduction

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**Further information** : No data available.

## **SECTION 12: Ecological information**

**Ecotoxicity effects** 

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

Species: Oncorhynchus mykiss (rainbow trout)

semi-static test Method: OECD Test Guideline 203

The product has low solubility in the test medium. An aqueous

dispersion was tested.

Toxicity to daphnia and other aquatic invertebrates : EL50: 1,000 mg/l Exposure time: 48 h

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

Toxicity to algae : EL50: > 1,000 mg/l

Exposure time: 72 h

Species: Selenastrum capricornutum (algae) static test Method: OECD Test Guideline 201

The product has low solubility in the test medium. An aqueous

dispersion was tested.

Toxicity to bacteria

1-Octadecene : NOEC: 3 mg/l

> Exposure time: 120 h Respiration inhibition

Biodegradability : This material is expected to be readily biodegradable.

Information given is based on data obtained from similar

substances.

Elimination information (persistence and degradability)

Bioaccumulation : This material is not expected to bioaccumulate.

Mobility : No data available

Results of PBT assessment : This substance/mixture contains no components considered

> to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

Additional ecological

information

: No data available

**Ecotoxicology Assessment** 

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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.

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.

#### **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.

When shipment is offered for transport at or above 100°C it is regulated as:

UN3257, ELEVATED TEMPERATURE LIQUID, N.O.S., (ALPHA OLEFIN FRACTION, C20-24) , 9, III

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

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

When shipment is offered for transport at or above 100°C it is regulated as:

UN3257, ELEVATED TEMPERATURE LIQUID, N.O.S., (ALPHA OLEFIN FRACTION, C20-24) , 9, III (183°C)

### IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR

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TRANSPORTATION BY THIS AGENCY.

When shipment is offered for transport at or above 100°C it is regulated as:

UN3257, 9: NOT PERMITTED FOR TRANSPORT

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

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

When shipment is offered for transport at or above 100°C it is regulated as:

UN3257, ELEVATED TEMPERATURE LIQUID, N.O.S., (ALPHA OLEFIN FRACTION, C20-24), 9, III, (D)

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

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

When shipment is offered for transport at or above 100°C it is regulated as:

UN3257, ELEVATED TEMPERATURE LIQUID, N.O.S., (ALPHA OLEFIN FRACTION, C20-24), 9, III

# 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.

When shipment is offered for transport at or above 100°C it is regulated as:

UN3257, ELEVATED TEMPERATURE LIQUID, N.O.S., (ALPHA OLEFIN FRACTION, C20-24) , 9, III

Other information : OLEFINS (C13 +, all isomers), S.T. 2, Cat.Y

Maritime transport in bulk according to IMO instruments

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

**Notification status** 

Europe REACH : This product is in full compliance according to REACH

regulation 1907/2006/EC.

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

TSCA TSCA inventory

Canada DSL : On the inventory, or in compliance with the inventory
Other AICS : On the inventory, or in compliance with the inventory
New Zealand NZIoC : This substance may be used as a component in a

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product covered by a group standard but it is not approved for use as a chemical in its own right

Japan ENCS : On the inventory, or in compliance with the inventory

Korea KECI : A substance(s) in this product was not registered,

notified to be registered, or exempted from registration by CPChem according to K-REACH regulations. Importation or manufacture of this product is still permitted provided the Korean Importer of Record has themselves notified the substance or the exported amount does not exceed the minimum threshold quantity of the non-registered substance(s).

Philippines PICCS : 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

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

#### **Further information**

Legacy SDS Number : PE0025

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%	
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	

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>=	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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