

**Synfluid® PAO 7 cSt**

Version 1.14

Revision Date 2026-07-09

Version	Revision Date:	SDS Number (Internal):	MSDS number: AA00974-0000000106
1.14	2026-07-09	100000013642	Date of last issue: 2026-07-07
			Date of first issue: 2009-10-27

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Synfluid® PAO 7 cSt

Material : 1079863, 1080486, 1079705

Product code : 000000000000000000 000000000000000000

Recommended use of the chemical and restrictions on use

Recommended use : Synthetic Lubricants

Restrictions on use : This material should not be used for purposes other than the identified uses in section 1 without expert advice.

Manufacturer or supplier's details

Address : Chevron Phillips Chemical Company LP
9500 Lakeside Blvd.
The Woodlands, TX 77381

Address : CHEVRON PHILLIPS CHEMICALS ASIA PTE. LTD.
C/O DONG WOO CORPORATION
#B-2601, JEONGJAIL-RO,
BUNDANG-GU, SEONGNAMI-SI,
GYEONGGI-DO, 13557
SOUTH KOREA
Telephone no.: +612-9186-1132

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)



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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 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

Organization that prepared the SDS : Product Safety and Toxicology Group
 E-mail address : SDS@CPChem.com
 Website : www.CPChem.com
 Appointees : 회사명: 리이치 24 시코리아(주).
 주소: 서울시 서초구 헌릉로 7,
 외국기업창업지원연구센터
 (IKP) 908-909호

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전화: +82-1067838981

2. HAZARDS IDENTIFICATION**GHS Classification**

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards which do not result in classification

No data available

3. COMPOSITION/INFORMATION ON INGREDIENTS**Components**

Chemical name	Common Name	CAS-No.	Concentration (% w/w)
1-Dodecene, Homopolymer, Hydrogenated	1-Dodecene, homopolymer, hydrogenated	151006-63-2	>= 95 - <= 100

No hazardous ingredients

4. FIRST AID MEASURES

- | | |
|-------------------------|--|
| General advice | : No hazards which require special first aid measures.
In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Show this material safety data sheet to the doctor in attendance. |
| In case of eye contact | : Flush eyes with water as a precaution.
Remove contact lenses.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist. |
| In case of skin contact | : Remove contaminated clothing. If irritation develops, get medical attention.
Wash off immediately with plenty of water. |
| If inhaled | : Move to fresh air in case of accidental inhalation of vapors.
Consult a physician after significant exposure. |

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If swallowed	:	If swallowed, DO NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Consult a physician if necessary.
Most important symptoms and effects, both acute and delayed	:	No information available. No information available.
Notes to physician	:	Treat symptomatically.

5. FIRE-FIGHTING MEASURES**Suitable and unsuitable extinguishing media**

Suitable extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire fighting	:	Do not use a solid water stream as it may scatter and spread fire. Cool closed containers exposed to fire with water spray.
Specific extinguishing methods	:	Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Special protective equipment for fire-fighters	:	In the event of fire, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas. Material can create slippery conditions. No conditions to be specially mentioned.
Environmental precautions	:	No special environmental precautions required.
Methods and materials for containment and cleaning up	:	Keep in suitable, closed containers for disposal. Clean contaminated floors and objects thoroughly while observing environmental regulations.



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7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Do not breathe vapors/dust.
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.
- Conditions for safe storage : 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.
- Further information on storage stability : No decomposition if stored and applied as directed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

- 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.

Personal protective equipment. Among the following personal protective equipment, the PPEs which require safety certification need to be certified by KOSHA.

- 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.
- Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles
- Hand protection

Remarks : The suitability for a specific workplace should be discussed

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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.

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.

Protective measures : Wear as appropriate:
Lightweight protective clothing

Hygiene measures : Wear suitable protective equipment.
When using do not eat, drink or smoke.
When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Color : Colorless

Odor : Odorless

Odor Threshold : No data available

pH : Not applicable

Pour point : < -42 °C

Melting point/freezing point : No data available

Boiling point/boiling range : > 260 °C

Flash point : 246 - 271 °C

Method: Cleveland Open Cup

Evaporation rate : No data available

Self-ignition : 351 °C

Upper explosion limit / Upper flammability limit : No data available

SAFETY DATA SHEET

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Lower explosion limit / Lower flammability limit : No data available

Vapor pressure : No data available

Solubility(ies)
Water solubility : Soluble in hydrocarbon solvents; insoluble in water.

Relative vapor density : No data available

Density : 6.87 - 6.96 L/G

Decomposition temperature : No data available

Viscosity
Viscosity, kinematic : 38 cSt (40 °C)
Method: ASTM D 445

Oxidizing properties : no

Heat of combustion : 45.73 KJ/G

Molecular weight : Not applicable

10. STABILITY AND REACTIVITY

Chemical stability and possibility of hazardous reactions	: 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 polymerization does not occur. No decomposition if stored and applied as directed.
Conditions to avoid	: No data available
Incompatible materials	: May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
Hazardous decomposition products	: Carbon oxides

11. TOXICOLOGICAL INFORMATION

Information on likely routes of : No data available

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exposure

Health hazard information**Acute toxicity****Product:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
Assessment: Not harmful
Remarks: Information given is based on data obtained from similar substances.

Acute inhalation toxicity : LC50 (Rat): > 5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Assessment: 0 - Not toxic
Remarks: Information given is based on data obtained from similar substances.

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Assessment: Not harmful
Remarks: Information given is based on data obtained from similar substances.

Skin corrosion/irritation**Product:**

Species : Rabbit
Result : No skin irritation
Remarks : Information given is based on data obtained from similar substances.

Serious eye damage/eye irritation**Product:**

Species : Rabbit
Result : No eye irritation
Remarks : Information given is based on data obtained from similar substances.

Respiratory or skin sensitization**Skin sensitization**

Did not cause sensitization on laboratory animals.

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Product:

Result : No data available

Carcinogenicity**Product:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

Germ cell mutagenicity**Product:**Genotoxicity in vitro : Test Type: Ames test
Result: negative
Remarks: Information refers to the main ingredient.Test Type: Chromosome aberration test in vitro
Result: negative
Remarks: Information refers to the main ingredient.Genotoxicity in vivo : Test Type: Mouse micronucleus assay
Result: negative
Remarks: Information refers to the main ingredient.

Germ cell mutagenicity- Assessment : Animal testing did not show any mutagenic effects.

Reproductive toxicity**Product:**Reproductive toxicity - Assessment : No toxicity to reproduction
Did not show teratogenic effects in animal experiments.**STOT-single exposure****Product:**

Remarks : Not classified due to data which are conclusive although insufficient for classification.

STOT-repeated exposure**Product:**

Remarks : Not classified due to data which are conclusive although insufficient for classification.

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Repeated dose toxicity**Product:**

Species	: Rat, Male and female
NOAEL	: 1,000 mg/kg
Application Route	: oral gavage
Exposure time	: 28 days
Dose	: 0, 1000 mg/kg/day
Method	: OECD Test Guideline 407
GLP	: yes
Remarks	: Information given is based on data obtained from similar substances.

Aspiration toxicity**Product:**

No aspiration toxicity classification

Experience with human exposure

No data available

Toxicology, Metabolism, Distribution

No data available

Neurological effects

No data available

Further information

No data available

Endocrine disrupting properties**Product:**

Assessment	: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
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12. ECOLOGICAL INFORMATION**Ecotoxicity****Product:**

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): > 1,000 mg/l
Exposure time: 96 h
Test Type: static test
Test substance: no
Method: OECD Test Guideline 203
GLP: yes
Remarks: Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 1,000 mg/l
Exposure time: 48 h
Test Type: static test
Test substance: no
Method: OECD Test Guideline 202
GLP: yes
Remarks: Information given is based on data obtained from similar substances.

Toxicity to algae/aquatic plants : NOEC (Selenastrum capricornutum (algae)): > 1,000 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 201
GLP: yes
Remarks: Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 125 mg/l
Exposure time: 21 d
Test substance: no
GLP: yes
Remarks: The product has low solubility in the test medium. An aqueous dispersion was tested. Information given is based on data obtained from similar substances.

Ecotoxicology Assessment

Acute aquatic toxicity : This material is not expected to be harmful to aquatic organisms.

Chronic aquatic toxicity : This material is not expected to be harmful to aquatic organisms.

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Persistence and degradability**Product:**

Biodegradability : Result: Expected to be inherently biodegradable.

Bioaccumulative potential**Product:**Bioaccumulation : Method: QSAR modeled data
Remarks: This material is not expected to bioaccumulate.**Mobility in soil****Product:**

Mobility : Remarks: No data available

Other adverse effects**Product:**

Results of PBT and vPvB assessment : Not available

Endocrine disrupting properties**Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

13. DISPOSAL CONSIDERATIONS**Disposal methods**Waste from residues : Dispose of wastes in an approved waste disposal facility.
Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.**Disposal precautions**

Dispose of contents and container according to wastes control act.

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14. TRANSPORT INFORMATION**International Regulations**

Remarks : Polyolefin (molecular weight 300+), S.T. 2, Cat.Y

IATA-DGR

Not regulated as a dangerous good

UN/ID No. : Not applicable

Proper shipping name : Not applicable

Class : Not applicable

Subsidiary risk : Not applicable

Packing group : Not applicable

Labels : Not applicable

Packing instruction (cargo aircraft) : Not applicable

Packing instruction (passenger aircraft) : Not applicable

Remarks : Polyolefin (molecular weight 300+), S.T. 2, Cat.Y

IMDG-Code

Not regulated as a dangerous good

UN number : Not applicable

Proper shipping name : Not applicable

Class : Not applicable

Subsidiary risk : Not applicable

Packing group : Not applicable

Labels : Not applicable

EmS Code : Not applicable

Marine pollutant : no

Remarks : Polyolefin (molecular weight 300+), S.T. 2, Cat.Y

Maritime transport in bulk according to IMO instruments

Not applicable

Domestic regulation

Refer to section 15 for specific national regulation.

Special precautions for user

Remarks : not regulated

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15. REGULATORY INFORMATION**National regulatory information****Regulation under the Occupational Safety and Health Act****Harmful Substances Prohibited from Manufacturing**

Not relevant

Harmful Substances Required Permission for Manufacture

Not relevant

Harmful Agents to be kept below Occupational Exposure Limits

Not applicable

Harmful Agents Required to be kept below Permission Levels

Not applicable

Hazardous substances requiring management

Not applicable

Special Management Materials

Not applicable

Controlled Substances Subject to Environment Monitoring

Not applicable

Controlled Substances Subject to Health Examination

Not applicable

Hazardous Substances Subject to Process Safety Management (PSM) Reporting Obligation

Not applicable

K-OSHA Hazardous Substances (Occupational Safety and Health Regulations, Table 1)

Not applicable

K-OSHA Hazardous Substances (Occupational Safety and Health Regulations, Table 9)

Not applicable

Regulation under the Chemicals Control Act**Toxic Chemicals**

Not relevant

Restricted Chemicals

Not applicable

Prohibited Chemicals

Not relevant

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Toxic Release Inventory

Not applicable

Accident Precaution Chemicals

Not applicable

Chemicals of Acute and Chronic Hazard to Human Health and the Environment**Substances Acutely hazardous to humans**

Not applicable

Substances Chronically hazardous to humans

Not applicable

Substances Hazardous to the environment

Not applicable

Accident Precaution Chemicals

Not applicable

Toxic Release Inventory

Not applicable

Act on Registration and Evaluation of Chemical Substances (K-REACH)**Restricted Chemicals**

Not applicable

Prohibited Chemicals

Not relevant

Substances with Unconfirmed Hazards

Not applicable

Dangerous Substances Safety Management Act

Not relevant

International Chemical Weapons Convention (CWC) : Neither banned nor restricted
Schedules of Toxic Chemicals and Precursors

International Chemical Weapons Convention (CWC) : Neither banned nor restricted
Schedules of Toxic Chemicals and Precursors

Waste Control Act

Industrial waste

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Follow article 13 of the act to dispose the product waste

Industrial general wastes

Follow article 13 of the act to dispose the product waste

Other requirements in domestic and other countries**The ingredients of this product are reported in the following inventories:**

EU REACH	: This product is in full compliance according to REACH regulation 1907/2006/EC.
CH INV	: Not in compliance with the inventory
TSCA	: On or in compliance with the active portion of the TSCA inventory
DSL	: All components of this product are on the Canadian DSL
AICS	: On the inventory, or in compliance with the inventory
NZIoC	: On the inventory, or in compliance with the inventory
ENCS	: On the inventory, or in compliance with the inventory
KECI	: All substances in this product were registered, notified to be registered, or exempted from registration by CPChem through an Only Representative according to K-REACH regulations. Importation of this product is permitted if the Korean Importer of Record was included on CPChem's notifications or if the Importer of Record themselves notified the substances.
PICCS	: On the inventory, or in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory
TW TCSI	: On the inventory, or in compliance with the inventory

16. OTHER INFORMATION**Further information**

Issuing date : 2009-10-27

Revision number and date

Number of Revision : 1.14

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Other information : NSF H1, HX-1 Registered, meets USDA 1998 H1 Guidelines

SAFETY DATA SHEET

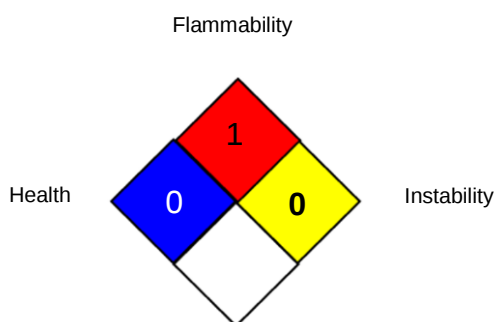
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Date format : yyyy/mm/dd

NFPA:**Full text of other abbreviations**

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MERCOSUR - The Agreement for the Facilitation of the Transport of Dangerous Goods; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative

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and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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