SAFETY DATA SHEET

C24-28

Version 1.13

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Am Al- PO Do SD Tex ergency telephone: Health: 866.442.9628 (North America) 1.832.813.4984 (International) Transport: CHEMTREC 800.424.9300 or 703 Asia: CHEMWATCH (+612 9186 Mexico CHEMTREC 01-800-681- South America SOS-Cotec Inside Argentina: +(54)-1159839431 EUROPE: BIG +32.14.584545 (pl Austria: VIZ +43 1 406 43 43 (24 Belgium: 070 245 245 (24 hours/c Bulgaria: +359 2 9154 233 Croatia: +3851 2348 342 (24 hours/c Bulgaria: +359 2 9154 233 Croatia: +3851 2348 342 (24 hours/c Bulgaria: +359 2 9154 233 Croatia: +3851 2348 342 (24 hours/c Bulgaria: +359 2 9154 233 Croatia: +3851 2348 342 (24 hours/c Bulgaria: +359 2 9154 233 Croatia: +3851 2348 342 (24 hours/c Bulgaria: +359 2 9154 233 Croatia: +3851 2348 342 (24 hours/c Bulgaria: +359 2 9154 233 Croatia: +3851 2348 342 (24 hours/c Bulgaria: +359 2 9154 233 Croatia: +3851 2348 342 (24 hours/c Bulgaria: +359 2 9154 233 Croatia: +3851 2348 342 (24 hours/c Bulgaria: +359 2 9154 233 Croatia: +3851 2348 342 (24 hours/c Bulgaria: +359 2 9154 233 Croatia: +3851 2348 342 (24 hours/c Bulgaria: +359 2 9154 233 Croatia: +3851 2348 342 (24 hours/c Bulgaria: +359 2 9154 233 Croatia: +3851 2348 342 (24 hours/c Bulgaria: +359 2 9154 233 Croatia: +3851 2348 342 (24 hours/c Bulgaria: +359 2 9154 233 Croatia: +3851 2348 342 (24 hours/c Bulgaria: +359 2 9154 233 Croatia: +3851 2348 342 (24 hours/c Bulgaria: +359 2 9154 233 Croatia: +3851 2348 342 (24 hours/c Bulgaria: +359 2 9154 233 Croatia: +3851 2348 342 (24 hours/c Bulgaria: +359 2 9154 233 Croatia: +3851 2348 342 (24 hours/c Bulgaria: +36-80-201-199 (24 hours/c Bulgaria: +36 2222 (24 hours/day, blaceland: 543 2222 (24 ho	4-28
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Malta: +356 2395 2000 The Netherlands: NVIC: Norway: 22 59 13 00 (24 Poland: BIG +32.14.5845 Portugal: CIAV phone nu Romania: +40213183606 Slovakia: +421 2 5477 4 Slovenia: Phone number	hours/day, 7 days/week) 545 (phone) or +32.14583516 (telefax imber: +351 800 250 250 5 166 : 112 hey Telephone Number of Spanish Po	, , ,
Responsible Department E-mail address Website	 Product Safety and Toxicology SDS@CPChem.com www.CPChem.com 	Group
CTION 2: Hazards identifica	tion	
Classification Not a hazardous substance Labeling	: or mixture.	
Not a hazardous substance	or mixture.	
Carcinogenicity:		
IARC NTP	No ingredient of this product pres equal to 0.1% is identified as prot human carcinogen by IARC. No ingredient of this product pres equal to 0.1% is identified as a kr by NTP.	bable, possible or confirmed ent at levels greater than or
CTION 3: Composition/infor	mation on ingredients	
CTION 3: Composition/infor Synonyms	 mation on ingredients C24-C28 Alpha Olefin Fraction NAO 24-28 	
-	: C24-C28 Alpha Olefin Fraction	
Synonyms	: C24-C28 Alpha Olefin Fraction NAO 24-28 : UVCB CAS-No. 28 93924-11-9	Weight % 100

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TION 4: First aid measures		
• • • • •		
General advice	:	No hazards which require special first aid measures.
If inhaled	:	If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of eye contact	:	Remove contact lenses. Protect unharmed eye. If eye irritation persists, consult a specialist.
If swallowed	:	Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
TION 5: Firefighting measu	res	
Flash point	:	218°C (424°F) Method: PMCC
Autoignition temperature	:	249°C (480°F)
Suitable extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
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.
Special protective equipment for fire-fighters	:	Wear self-contained breathing apparatus for firefighting if necessary.
Further information	:	Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Fire and explosion protection	:	Provide appropriate exhaust ventilation at places where dust is formed.
TION 6: Accidental release	me	asures
Personal precautions	:	Avoid dust formation.
Environmental precautions	:	No special environmental precautions required.
Methods for cleaning up	:	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
TION 7: Handling and stora	ige	
Handling		
Advice on safe handling	:	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
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Advice on protection against fire and explosion	:	Provide appropriate exhaust ventilation at places where dust is formed.
Storage		
Requirements for storage areas and containers	:	Electrical installations / working materials must comply with the technological safety standards.
Advice on common storage	:	No materials to be especially mentioned.

SECTION 8: Exposure controls/personal protection

Engineering measures

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

Personal protective equipment

Respiratory protection	:	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:. 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:. Lightweight protective clothing.
Hygiene measures	:	General industrial hygiene practice.
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Information on basis above	ical and chomical proportion
Appearance	ical and chemical properties
Form Physical state Color Odor	: Wax., solid : solid : White : no odor
Safety data	
Flash point	: 218°C (424°F) Method: PMCC
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Oxidizing properties	: no
Autoignition temperature	: 249°C (480°F)
Molecular formula	: UVCB
Molecular weight	: Varies
рН	: Not applicable
Melting point/range	: 63°C (145°F) Method: ASTM D-87
Boiling point/boiling range	: 390-430°C (734-806°F)
Vapor pressure	: < 0.01 kPa at 65°C (149°F)
Relative density	: 0.82 at 15.6 °C (60.1 °F)
Density	: 821 kg/m3 at 15°C (59°F)
	799 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	: 2.5 cSt at 98.9°C (210.0°F)
Relative vapor density	: 0.82 at 15.6°C (60.1°F)
Evaporation rate	: Not applicable

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TION 10: Stability and react	ivity
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 rea	actions
Hazardous reactions	: Further information: Stable under recommended storage conditions., No hazards to be specially mentioned.
Conditions to avoid	: No data available.
Materials to avoid	: No data available.
Other data	: No decomposition if stored and applied as directed.
TION 11: Toxicological info	mation
Acute oral toxicity	
Alpha Olefin Fraction, C24- 28	 LD50: >2020 mg/kg Species: Rat Information given is based on data obtained from similar substances.
Acute inhalation toxicity	
Alpha Olefin Fraction, C24- 28	: Not classified Based on data from similar materials
Acute dermal toxicity	
Alpha Olefin Fraction, C24- 28	 LD50: > 2020 mg/kg Species: Rabbit Method: OECD Test Guideline 402 Information given is based on data obtained from similar substances.
Skin irritation	
Alpha Olefin Fraction, C24- 28	 No skin irritation Information given is based on data obtained from similar substances.
Eye irritation	

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Alpha Olefin Fraction, C24- 28	: No eye irritation Information given is based on data obtained from similar substances.
Sensitization	
Alpha Olefin Fraction, C24- 28	 Did not cause sensitization on laboratory animals. Information given is based on data obtained from similar substances.
Repeated dose toxicity	
Alpha Olefin Fraction, C24- 28	 Species: Rat, Male and female Sex: Male and female Application Route: oral gavage Dose: 100, 500, 1000 mg/kg/day Exposure time: 13 weeks Number of exposures: 7 d/wk NOEL: 1000 mg/kg bw/day
	Species: Rat, Male and female Sex: Male and female Application Route: Inhalation Dose: 300, 1000, 3000 ppm Exposure time: 13 weeks Number of exposures: 6 hrs/d, 5 d/wk NOEL: 3000 ppm
Genotoxicity in vitro	

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ersion 1.13	Revision Date 2022-12-
Alpha Olefin Fraction, C24- 28	 Test Type: E. Coli bacterial reverse mutation assay Metabolic activation: with and without metabolic activation Method: Mutagenicity (Escherichia coli - reverse mutation assay) Result: negative
	Test Type: E. Coli bacterial reverse mutation assay Metabolic activation: with and without metabolic activation Method: Mutagenicity (Escherichia coli - reverse mutation assay) Result: negative
	Test Type: Mammalian cell gene mutation assay Metabolic activation: with and without metabolic activation Method: OECD Guideline 476 Result: negative
	Test Type: Mouse lymphoma assay Metabolic activation: with and without metabolic activation Method: OECD Guideline 476 Result: negative
	Test Type: Chromosome aberration test in vitro Method: OECD Guideline 473 Result: negative
	Test Type: Chromosome aberration test in vitro Method: OECD Guideline 473 Result: negative
Genotoxicity in vivo	
Alpha Olefin Fraction, C24- 28	 Test Type: Mouse micronucleus assay Species: Mouse Dose: 500, 1000, 2000 mg/kg Method: Mutagenicity (micronucleus test) Result: negative
	Test Type: Mouse micronucleus assay Species: Mouse Dose: 1000, 10000, 25000 ppm Method: Mutagenicity (micronucleus test) Result: negative
	Test Type: Mouse micronucleus assay Dose: 1000, 10000, 25000 ppm Method: Mutagenicity (micronucleus test) Result: negative
Reproductive toxicity	
Alpha Olefin Fraction, C24- 28	 Species: Rat Sex: male and female Application Route: oral gavage Dose: 100, 500, 1000 mg/kg/day Number of exposures: Daily Test period: 41 to 55 days Method: OECD Guideline 421 NOAEL Parent: 1000 mg/kg/day
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	NOAEL F1: 1000 mg/kg/day
	Species: Rat Sex: male and female Application Route: oral gavage Dose: 100, 500, 1000 mg/kg/day Number of exposures: Daily Test period: 42- 51 days Method: OECD Guideline 422 NOAEL Parent: 1000 mg/kg/day NOAEL F1: 1000 mg/kg/day
CMR effects	
Alpha Olefin Fraction, C24- 28	 Carcinogenicity: Not available Mutagenicity: Weight of evidence does not support classification as a germ cell mutagen. Teratogenicity: Not available Reproductive toxicity: Weight of evidence does not support classification for reproductive toxicity
C24-28 Further information	: No data available.
Ecotoxicity effects Toxicity to fish	
	 LL50: > 1000 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) Method: OECD Test Guideline 203
Toxicity to fish Alpha Olefin Fraction, C24-	Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout)
Toxicity to fish Alpha Olefin Fraction, C24-	Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) Method: OECD Test Guideline 203 Information given is based on data obtained from similar substances.
Toxicity to fish Alpha Olefin Fraction, C24- 28	Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) Method: OECD Test Guideline 203 Information given is based on data obtained from similar substances.
Toxicity to fish Alpha Olefin Fraction, C24- 28 Toxicity to daphnia and oth Alpha Olefin Fraction, C24-	 Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) Method: OECD Test Guideline 203 Information given is based on data obtained from similar substances. er aquatic invertebrates EL100: 1000 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) Method: OECD Test Guideline 202 Information given is based on data obtained from similar
Toxicity to fish Alpha Olefin Fraction, C24- 28 Toxicity to daphnia and oth Alpha Olefin Fraction, C24- 28	 Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) Method: OECD Test Guideline 203 Information given is based on data obtained from similar substances. er aquatic invertebrates EL100: 1000 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) Method: OECD Test Guideline 202 Information given is based on data obtained from similar

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Die de gro de bility			
Biodegradability			
Alpha Olefin Fraction, C 28	24- : This material is not expected to be readily biodegradable.		
Elimination information	(persistence and degradability)		
Bioaccumulation	: This material is not expected to bioaccumulate.		
Mobility	: No data available		
Results of PBT assess	nent		
Alpha Olefin Fraction, C			
Additional ecological information	: This material is not expected to be harmful to aquatic organisms.		
	No data available		
Ecotoxicology Assess	ment		
Short-term (acute) aqua hazard	tic : This material is not expected to be harmful to aquatic organisms.		
Long-term (chronic) aqu hazard	atic : This material is not expected to be harmful to aquatic organisms.		
SECTION 13: Disposal con	ECTION 13: Disposal considerations		
•			
The information in this S	The information in this SDS pertains only to the product as shipped.		
Use material for its inter	Use material for its intended purpose or recycle if possible. This material, if it must be discarded.		

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport information

The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition).

Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the SDS and the bill of lading.

US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION) 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, ELEVATED TEMPERATURE LIQUID, N.O.S., (ALPHA OLEFIN FRACTION, C24-28) , 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, C24-28) , 9, III (218°C)

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

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, 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, C24-28) , 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, C24-28) , 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:

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UN3257, ELEVATED TEMPERATURE LIQUID, N.O.S., (ALPHA OLEFIN FRACTION, C24-28) , 9, III			
Other information Maritime transport in bulk a	: OLEFINS (C13 +, all isomers), S.T. 2, Cat.Y ccording to IMO instruments		
SECTION 15: Regulatory informa	ition		
National legislation			
SARA 311/312 Hazards	: No SARA Hazards		
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	: This material does not contain any components with a section 302 EHS TPQ.		
SARA 304 Reportable Quantity	: This material does not contain any components with a section 304 EHS RQ.		
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 II	oduct neither contains, nor was manufactured with a Class I or ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR pt. 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).			
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	ny chemicals listed under the U.S. Clean Air Act Section 112(r) for			
This product does not contain ar Intermediate or Final VOC's (40	ny chemicals listed under the U.S. Clean Air Act Section 111 SOCMI CFR 60.489).			
US State Regulations				
Pennsylvania Right To Know :	Alpha Olefin Fraction, C24-28 - 93924-11-9			
California Prop. 65 : Components	This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.			
Notification status Europe REACH Switzerland CH INV United States of America (USA) TSCA Canada DSL Australia AICS New Zealand NZIoC Japan ENCS Korea KECI Philippines PICCS China IECSC Taiwan TCSI	 This product is in full compliance according to REACH regulation 1907/2006/EC. On the inventory, or in compliance with the inventory On or in compliance with the active portion of the TSCA inventory On the inventory, or in compliance with the inventory Not in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory 			
SECTION 16: Other information				
NFPA Classification :	Health Hazard: 0 Fire Hazard: 1 Reactivity Hazard: 0			
Further information				
Legacy SDS Number :	QCHEM017			
SDS Number:100000067880	13/14			

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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.

K	ey or legend to abbreviations and a	cronyms used	d in the safety data sheet
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect 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