SAFETY DATA SHEET



Version 2.3

Product Name : HE® 100 Polymer Material : 1127146, 1016934 Use : Complexe : Completion Fluid Additive Company : Chevron Phillips Chemical Company LP Drilling Specialties Company LLC 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) Belgium: 0800 147 111 09 471 977 (24 hours/day) France: ORFILA number (INRS): + 33 (0) 145 42 595 99 (24 hours/day, 7 days/week) Hungary: +36-80-201-199 (24 hours/day, 7 days/week) Hungary: +36-80-201-199 (24 hours/day, 7 days/week) Iteland: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Treland: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Treland: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Ital: +30 06 3054343; POISON CENTER ROME – Policilnico "Ampatin" Tel. +33 084732220 POISON CENTER MALAN – Azienda Ospedaliera Universitaria Careggi Tel. +39 05 7947819; POISON CENTER ROME – Policilnico "Ampatin" Tel. +39 084732220 POISON CENTER FLORENC	CTION 1: Identification c	of the substance/mixture and of the company/undertaking
Material : 1127146, 1016934 Use : Completion Fluid Additive Company : Chevron Phillips Chemical Company LP Drilling Specialties Company LLC 9500 Lakeside Blvd. The Woodlands, TX 77381 Emergency telephone: Health: 866.442.9628 (North America) 1.832.813.4984 (International) Transport: CHEMWATCH (Fd12 9186 1132) China: 0532 8388 9090 Mexico CHEMTREC 00-424.9300 or 703.527.3887(int'l) Asia: CHEMWATCH (Fd12 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)-115939431 EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Austria: VIZ +43 1 406 43 3 (24 hours/day, 7 days/week) Belgium: 070 245 245 (24 hours/day, 7 days/week) Bulgaria: +359 2 9154 233 Croatia: +3351 2348 342 (24 hours/day, 7 days/week) Bulgaria: +359 2 9154 233 Croatia: +3351 2348 342 (24 hours/day, 7 days/week) France: ORFILA number (INRS): +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): +43 8213 516 (telefax) Finland: 0800 147 111 09 471 9777 (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) Finland: 0800 147 111 09 471 9777 (24 hours/day) France: ORFILA number (INRS): +430 63 432 (24 hours/day, 7 days/week) Iceland: 543 2222 (24 hours/day, 7 days/week) Iceland: 543 222 (24 hours/day, 7 days/week) Iceland: 543 2229 (24 hours/day, 7 days/week) Iceland: 543 2229 (24 hours/day, 7 days/week) Iceland: 543 229 (25 hours/day, 7 days/week) Iceland: 543 2435 (bioNO CENTER ROME – Opicinico: *Gopsetale Pedicati	Product information	
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 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 +431 406 43 43 (24 hours/day, 7 days/week) Belgium: 070 245 245 (24 hours/day, 7 days/week) Belgium: 070 245 245 (24 hours/day, 7 days/week) Bulgaria: +3851 2348 342 (24 hours/day, 7 days/week) Bulgaria: +3851 2348 342 (24 hours/day, 7 days/week) Czech Republic: Toxicological Information Center +420 224 919 293, +420 224 915 402 Denmark: Danish Poison Center (Gittlinjen): +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) Gremany: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Greace: (0030) 2107793777 (24 hours/day, 7 days/week) Hungary: +36-80-201-199 (24 hours/day, 7 days/week) Hungary: +36-80-201-199 (24 hours/day, 7 days/week) Ireland: 51G +32.14.584545 (phone) or +32.14583516 (telefax) Italy: POISON CENTER RIMLAN – Azienda Ospedaliera Niguarda Ca` Grande Tel. +39 02 66101029; POISON CENTER ROME – Policlinico "Agostino Gemell", 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 0881 732326 POISON CENTER NAPLES – Azienda Ospedaliera Universitaria Careggi Tel. +39 0882 24444; POISON CENTER PAVIA –	Emergency telephone:	
Number:10000068283 1/12	866.442.9628 (North 1.832.813.4984 (Inte Transport: CHEMTREC 800.424 Asia: CHEMWATCH Mexico CHEMTREC South America SOS- Argentina: +(54)-1155 EUROPE: BIG +32.11 Austria: VIZ +43 1 400 Belgium: 070 245 244 Bulgaria: +3851 2348 Cyprus: 1401 Czech Republic: Tox Denmark: Danish Po Estonia: BIG +32.14. Finland: 0800 147 11 France: ORFILA num Germany: BIG +32.14. Greece: (0030) 2107 Hungary: +36-80-2011 Iceland: 543 2222 (24 Ireland: BIG +32.14.5 Italy: POISON CENT 66101029; POISON CENT 66101029; POISON CENT POISON CENTER FI 7947819; POISON CENT 300; POISON CENT	rnational) 4.9300 or 703.527.3887(int'l) (+612 9186 1132) China: 0532 8388 9090 01-800-681-9531 (24 hours) Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600 9839431 4.584545 (phone) or +32.14583516 (telefax) 06 43 43 (24 hours/day, 7 days/week) 5 (24 hours/day, 7 days/week) 4 233 342 (24 hours/day, 7 days/week) icological Information Center +420 224 919 293, +420 224 915 402 ison Center (Giftlinjen): +45 8212 1212 584545 (phone) or +32.14583516 (telefax) 1 09 471 977 (24 hours/day) nber (INRS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week) 4.584545 (phone) or +32.14583516 (telefax) 1 09 471 977 (24 hours/day) nber (INRS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week) 4.584545 (phone) or +32.14583516 (telefax) 1793777 (24 hours/day, 7 days/week) 1-199 (24 hours/day, 7 days/week) 584545 (phone) or +32.14583516 (telefax) 793777 (24 hours/day, 7 days/week) 584545 (phone) or +32.14583516 (telefax) 793777 (24 hours/day, 7 days/week) 584545 (phone) or +32.14583516 (telefax) 793777 (24 hours/day, 7 days/week) 584545 (phone) or +32.14583516 (telefax) ER MILAN – Azienda Ospedaliera Niguarda Ca` Grande Tel. +39 02 CENTER ROME – Policlinico "Agostino Gemelli", Servizio di tossicologia 054343; POISON CENTER ROME – Ospedale Pediatrico Bambino Gesù 6;POISON CENTER ROME – Policlinico "Umberto I" Tel. +39 081 7472870; LORENCE – Azienda Ospedaliera Universitaria Riuniti Tel. +39 081 7472870; LORENCE – Azienda Ospedaliera Universitaria Careggi Tel. +39 055 ENTER PAVIA – IRCCS Fondazione Salvatore Maugeri Tel. +39 0382 VTER BERGAMO – Azienda Ospedaliera "Papa Giovanni XXIII" Tel. 800 8
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Poisoning and Drug Infor 67042473. (24 hours.) Liechtenstein: BIG +32.14 Lithuania: +370 (85) 2362 Luxembourg: (+352) 8002 Malta: +356 2395 2000 The Netherlands: NVIC: + Norway: 22 59 13 00 (24 I Poland: BIG +32.14.58454 Portugal: CIAV phone nur Romania: +40213183606 Slovakia: +421 2 5477 410 Slovenia: Phone number:	2 5500 (24 hours/day, 7 days/week) -31 (0)88 755 8000 hours/day, 7 days/week) 45 (phone) or +32.14583516 (telefax) nber: +351 800 250 250 66 112 cy Telephone Number of Spanish Poison Centre: +34 91 562 04 20 (24
Responsible Department E-mail address Website	 Product Safety and Toxicology Group SDS@CPChem.com www.CPChem.com
SECTION 2: Hazards identificati	ion
	ance or mixture fied in accordance with the hazard communication standard 29 CFR els contain all the information as required by the standard. : Combustible dust
Labeling	
Signal Word	: Warning
Hazard Statements	: May form combustible dust concentrations in air.
Potential Health Effects	
Physical Hazards	: Mechanical processing may form combustible dust concentrations in air and thermal processing at elevated temperatures may generate simple hydrocarbons and carbon oxides.
Carcinogenicity:	
IARC	No ingredient of this product present at levels greater than or
NTP	equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. 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/inform	nation on ingredients
Synonyms	: None Established

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Molecular formula	:	Polyme	er	
		•		
Component			CAS-No.	Weight %
Sodium salt of sulfonated acr and acrylic amide	rylaı	mide	Proprietary	90
SECTION 4: First aid measures				
SECTION 4: First and measures				
General advice	:	No haz	ards which require spe	ecial first aid measures.
If inhaled	:		nscious, place in recov If symptoms persist,	rery position and seek medical call a physician.
In case of eye contact	:		e contact lenses. Prot n persists, consult a sp	ect unharmed eye. If eye pecialist.
If swallowed	:	bevera		Do not give milk or alcoholic ing by mouth to an unconscious call a physician.
SECTION 5: Firefighting measured	res			
Flash point	:	Not app	olicable	
Autoignition temperature	:	No data	a available	
Suitable extinguishing media	:		he use of straight strea e risk of a dust explosic	ams that may create a dust cloud on.
Specific hazards during fire fighting	:	explosi		ame propagation or secondary I by avoiding accumulation of s.
Special protective equipment for fire-fighters	:	Wear s necess		g apparatus for firefighting if
Further information	:	measu		ical fires. Use extinguishing e to local circumstances and the
Fire and explosion protection	:	concen potentia	trations, and in the pre	ust dispersed in air in sufficient esence of an ignition source is a rd. Provide appropriate exhaust ust is formed.
Hazardous decomposition products	:	Carbon	Dioxide. Carbon oxid	les.
SECTION 6: Accidental release	me	asures		
Personal precautions	:	Avoid c	lust formation.	
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Environmental precautions	:	No special environmental precautions required.
Methods for cleaning up	:	Pick up and arrange disposal without creating dust. Clean up promptly by sweeping or vacuum. Keep in suitable, closed containers for disposal.
Additional advice	:	Contaminated surfaces will be extremely slippery. Avoid spillage on floor as the product can become very slippery when wet. Sweep up to prevent slipping hazard.
CTION 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. Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary, but may not by themselves be sufficient. Potentially toxic/irritating fumes may be evolved from heated material.
Advice on protection against fire and explosion	:	Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. 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.
Use	:	Completion Fluid Additive
CTION 8: Exposure controls/	/per	sonal protection
Engineering measures		
Adequate ventilation to contr Consider the potential hazard activities, and other substand personal protective equipment exposure to harmful levels of recommended. The user sho	ds o ces nt. f this ould	irborned concentrations below the exposure guidelines/limits. of this material (see Section 2), applicable exposure limits, job in the work place when designing engineering controls and selectir If engineering controls or work practices are not adequate to preve s material, the personal protective equipment listed below is I read and understand all instructions and limitations supplied with s usually provided for a limited time or under certain circumstances
Personal protective equipn	nen	t
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. A positive pressure, air- supplying respirator may be appropriate if there is potential for
		uncontrolled release, aerosolization, exposure levels are not

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	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	: General industrial hygiene practice.
CTION 9: Physical and cher	nical properties
Information on basic phys	sical and chemical properties
Appearance	
Physical state	: solid
Color Odor	: White : no odor
Odor Threshold	: Not applicable
Safety data	
Flash point	: Not applicable
Lower explosion limit	: Not applicable
Upper explosion limit	: Not applicable
Oxidizing properties	: No
Autoignition temperature	: No data available
Thermal decomposition	: No data available
Molecular formula	: Polymer
Molecular weight	: No data available
рН	: Not applicable
Pour point	: Not applicable
Melting point/ range	Not applicable

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	Boiling point/boiling range	:	Not applicable
,	Vapor pressure	:	Not applicable
ļ	Relative density	:	1.39 at 16 °C (61 °F)
l	Density	:	58 LB/FT3
,	Water solubility	:	soluble
(Partition coefficient: n- octanol/water	•	No data available
;	Solubility in other solvents	:	4.81 g/l at 20°C (68°F) Medium: Water Method: OECD Test Guideline 120
,	Viscosity, kinematic	:	Not applicable
	Relative vapor density	:	Not applicable
	Evaporation rate	:	Not applicable
	Dust deflagration index Kst	:	> 0 m.b_/s

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 rea	ctions
Hazardous reactions	: Further information: Stable under recommended storage conditions., No hazards to be specially mentioned.
Conditions to avoid	: Generation of Dusts.
Materials to avoid	: May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
Thermal decomposition	: No data available
Hazardous decomposition products	: Carbon Dioxide Carbon oxides

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Other data	: No decomposition if stored and applied as directed.
SECTION 11: Toxicological inform	nation
HE® 100 Polymer Acute oral toxicity	: LD50: > 5,000 mg/kg Species: Rat
HE® 100 Polymer Acute inhalation toxicity	: No data available
HE® 100 Polymer Acute dermal toxicity	: No data available
HE® 100 Polymer Skin irritation	: No skin irritation
HE® 100 Polymer Eye irritation	: No eye irritation
HE® 100 Polymer Aspiration toxicity	: No aspiration toxicity classification.
HE® 100 Polymer Further information	: Product dust may be irritating to eyes, skin and respiratory system.
ECTION 12: Ecological informat	ion
Ecotoxicity effects	
Toxicity to fish	: This material is not expected to be harmful to aquatic organisms.
Toxicity to daphnia and other aquatic invertebrates	: This material is not expected to be harmful to aquatic organisms.
Toxicity to algae	: This material is not expected to be harmful to aquatic organisms.
Biodegradability	: This material is not expected to be readily biodegradable.
Elimination information (persis	ence and degradability)
Bioaccumulation	: Bioaccumulation is unlikely.
Mobility	: No data available
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Additional ecological information	: This material is not expected to be harmful to aquatic organisms.
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.
CTION 13: Disposal consider	ations
The information in this SDS p	ertains only to the product as shipped.
may meet the criteria of a haz other State and local regulation regulated components may be	burpose or recycle if possible. This material, if it must be discarded, cardous waste as defined by US EPA under RCRA (40 CFR 261) or ons. Measurement of certain physical properties and analysis for e necessary to make a correct determination. If this material is ste, federal law requires disposal at a licensed hazardous waste
Contaminated packaging	: Empty containers should be taken to an approved waste handling site for recycling or disposal.
CTION 14: Transport information	tion
The shipping descriptions s	tion shown here are for bulk shipments only, and may not apply to ages (see regulatory definition).
The shipping descriptions s shipments in non-bulk pack Consult the appropriate dome Goods Regulations for additio etc.) Therefore, the informatio	shown here are for bulk shipments only, and may not apply to ages (see regulatory definition). estic or international mode-specific and quantity-specific Dangerous anal shipping description requirements (e.g., technical name or name on shown here, may not always agree with the bill of lading shipping
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DANGEROUS GOODS (EU	HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR
OF DANGEROUS GOODS	MENT CONCERNING THE INTERNATIONAL CARRIAGE BY INLAND WATERWAYS) HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR THIS AGENCY.
Maritime transport in bulk	according to IMO instruments
National legislation	
SARA 311/312 Hazards	: Combustible dust
CERCLA Reportable Quantity	: Calculated RQ exceeds reasonably attainable upper limit. Acrylamide
SARA 302 Reportable Quantity	: Calculated RQ exceeds reasonably attainable upper limit. Acrylamide
SARA 302 Threshold Planning Quantity SARA 304 Reportable Quantity	 This material does not contain any components with a section 302 EHS TPQ. Calculated RQ exceeds reasonably attainable upper limit. Acrylamide 79-06-1 5000 lbs
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.
Potential Class	product neither contains, nor was manufactured with a Class I or II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR ubpt. A, App.A + B).
This product does not conta Act Section 112 (40 CFR 61	in any hazardous air pollutants (HAP), as defined by the U.S. Clean Air).
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This product does not contain an Accidental Release Prevention (S. Clean Air Act Section 112(r) for
This product does not contain a Intermediate or Final VOC's (40		S. Clean Air Act Section 111 SOCMI
US State Regulations		
Pennsylvania Right To Know		
:	Sodium salt of sulfonated acryla Proprietary Acrylamide - 79-06-1	amide and acrylic amide -
California Prop. 65 :		ing a chamical known in the
Components	harm.	h defects or other reproductive
	Acrylamide	79-06-1
Notification status		
Europe REACH	: This product is in full c regulation 1907/2006/	compliance according to REACH EC.
Switzerland CH INV United States of America (USA)		n the inventory rith the active portion of the
TSCA Australia AIIC		compliance with the inventory
Japan ENCS New Zealand NZIoC	: Not in compliance with	
Korea KECI	notified to be registere	product was not registered, ed, or exempted from registration g to K-REACH regulations.
	Importation or manufa permitted provided the	cture of this product is still Korean Importer of Record has
		e substance or the exported ed the minimum threshold gistered substance(s).
Philippines PICCS Taiwan TCSI	: On the inventory, or in	compliance with the inventory compliance with the inventory
China IECSC		compliance with the inventory

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SECTION 16: Other information NFPA Classification : Health Hazard: 1
Fire Hazard: 2
Reactivity Hazard: 0 Further information Legacy SDS Number : 168830

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.

ACGIH	American Conference of	LD50	Lethal Dose 50%
	Government Industrial Hygienists		
AIIC	Australian Inventory of Industrial Chemicals	LOAEL	Lowest Observed Adverse Effe
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agenc
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupatio 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 Concentra
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 Substar
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recov 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	TSCA	Toxic Substance Control Act

SAFETY DATA SHEET

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	New Chemical Substances		
KECI	Korea, Existing Chemical	UVCB	Unknown or Variable Composition,
	Inventory		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