SAFETY DATA SHEET

Styrene Monomer

S-Chem

Version 3.9

Revision Date 2021-09-15

	of the substance/mixture and of the company/undertaking
Product information	
Product Name Material	: Styrene Monomer : 1102867, 1103436, 1025306
Company	 Jubail Chevron Phillips Company P.O. Box 11221 Jubail Industrial City Saudi Arabia 31961 SDS Requests: (800) 852-5530 Responsible Party: Product Safety Group Email:sds@cpchem.com
Asia: CHEMWATCH EUROPE: BIG +32.14 Mexico CHEMTREC South America SOS- Argentina: +(54)-1159 Responsible Department	America) rnational) 4.9300 or 703.527.3887(int'l) (+612 9186 1132) China: 0532 8388 9090 4.584545 (phone) or +32.14583516 (telefax) 01-800-681-9531 (24 hours) Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600 9839431 nt : Product Safety and Toxicology Group
E-mail address Website	: SDS@CPChem.com : www.CPChem.com
FION 2: Hazards identif	fication
Classification of the su Globally Harmonized S GHS-Classification	ubstance or mixture System of Classification and Labeling of Chemicals (GHS)
	: Flammable liquids, Category 3
	Skin corrosion/irritation, Category 2 Serious eye damage/eye irritation, Category 2A Specific target organ toxicity - repeated exposure, Category 1,

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	Auditory organs Aspiration hazard, Category 1 Short-term (acute) aquatic hazard, Category 2 Long-term (chronic) aquatic hazard, Category 3
GHS-Labeling	
Symbol(s)	
Signal Word	: Danger
Hazard Statements	 H226: Flammable liquid and vapor. H304: May be fatal if swallowed and enters airways. H315: Causes skin irritation. H319: Causes serious eye irritation. H372: Causes damage to organs (Auditory organs) through prolonged or repeated exposure. H401: Toxic to aquatic life. H412: Harmful to aquatic life with long lasting effects.
Precautionary Statements	 Prevention: P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 Keep container tightly closed. P240 Ground and bond container and receiving equipment. P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment. P242 Use non-sparking tools. P243 Take action to prevent static discharges. P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection. Response: P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P314 Get medical advice/ attention if you feel unwell. P331 P313 If eye irritation persists: Get medical advice/ attention. P362 + P364 Take off contaminated clothing and wash it before reuse. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. Storage: P403 + P235 Store in a well-ventilated place. Keep cool. P405 Store locked up.

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		Disposal: P501 Di disposal p	spose of contents/ container to lant.	o an approved waste
TION 3: Composition/info	rmat	ion on ingr	edients	
Synonyms	:	Inhibited S Phenyleth Benzene, Styrol Cinnamen Vinylbenze Styrolene Styrene M S-Chem S	ylene Ethenyl e ene onomer	
Molecular formula	:	C8H8		
Chemical name			CAS-No. / EINECS-No.	Concentration [wt%]
Styrene			100-42-5	99.9 - 100
TION 4: First aid measure	S			
General advice	:	sheet to th	of dangerous area. Show this e doctor in attendance. Mater otentially fatal pneumonia if sw	ial may produce a
	:	sheet to th serious, po If unconsc	e doctor in attendance. Mater	ial may produce a allowed or vomited.
General advice	:	sheet to th serious, po If unconsc advice. If If skin irrita	e doctor in attendance. Mater otentially fatal pneumonia if sw ious, place in recovery positior	ial may produce a allowed or vomited. n and seek medical cian. If on skin, rinse well
General advice If inhaled	:	sheet to th serious, po If unconsc advice. If If skin irrita with water Immediate lenses. Pr	e doctor in attendance. Mater otentially fatal pneumonia if sw ious, place in recovery positior symptoms persist, call a physician.	ial may produce a allowed or vomited. n and seek medical cian. If on skin, rinse well ater. Remove contact ve wide open while
General advice If inhaled In case of skin contact	:	sheet to th serious, po If unconsc advice. If If skin irrita with water Immediate lenses. Pr rinsing. If Keep resp an uncons	e doctor in attendance. Mater otentially fatal pneumonia if sw ious, place in recovery positior symptoms persist, call a physic ation persists, call a physician. . If on clothes, remove clothes ly flush eye(s) with plenty of w rotect unharmed eye. Keep ey	ial may produce a allowed or vomited. n and seek medical cian. If on skin, rinse well s. ater. Remove contact re wide open while a specialist. anything by mouth to
General advice If inhaled In case of skin contact In case of eye contact	:	sheet to th serious, po If unconsc advice. If If skin irrita with water Immediate lenses. Po rinsing. If Keep resp an uncons Take victir	e doctor in attendance. Mater otentially fatal pneumonia if sw ious, place in recovery positior symptoms persist, call a physic ation persists, call a physician. If on clothes, remove clothes ly flush eye(s) with plenty of w rotect unharmed eye. Keep ey eye irritation persists, consult a iratory tract clear. Never give cious person. If symptoms pe	ial may produce a allowed or vomited. n and seek medical cian. If on skin, rinse well ater. Remove contact we wide open while a specialist. anything by mouth to
General advice If inhaled In case of skin contact In case of eye contact If swallowed	:	sheet to th serious, po If unconsc advice. If If skin irrita with water Immediate lenses. Po rinsing. If Keep resp an uncons Take victir	e doctor in attendance. Mater otentially fatal pneumonia if sw ious, place in recovery positior symptoms persist, call a physic ation persists, call a physician. If on clothes, remove clothes by flush eye(s) with plenty of w rotect unharmed eye. Keep ey eye irritation persists, consult a iratory tract clear. Never give cious person. If symptoms pe n immediately to hospital.	ial may produce a allowed or vomited. n and seek medical cian. If on skin, rinse well ater. Remove contact we wide open while a specialist. anything by mouth to
General advice If inhaled In case of skin contact In case of eye contact If swallowed	:	sheet to th serious, po If unconsc advice. If If skin irrita with water Immediate lenses. Pr rinsing. If Keep resp an uncons Take victir	e doctor in attendance. Mater otentially fatal pneumonia if sw ious, place in recovery positior symptoms persist, call a physic ation persists, call a physician. . If on clothes, remove clothes ly flush eye(s) with plenty of w rotect unharmed eye. Keep ey eye irritation persists, consult a iratory tract clear. Never give cious person. If symptoms pe n immediately to hospital. F) osed cup	ial may produce a allowed or vomited. n and seek medical cian. If on skin, rinse well ater. Remove contact we wide open while a specialist. anything by mouth to
General advice If inhaled In case of skin contact In case of eye contact If swallowed TION 5: Firefighting meas Flash point	: : : : : : : :	sheet to th serious, po If unconsc advice. If If skin irrita with water Immediate lenses. Pr rinsing. If Keep resp an uncons Take victir 31°C (88° Method: cl 490°C (91	e doctor in attendance. Mater otentially fatal pneumonia if sw ious, place in recovery positior symptoms persist, call a physic ation persists, call a physician. . If on clothes, remove clothes ly flush eye(s) with plenty of w rotect unharmed eye. Keep ey eye irritation persists, consult a iratory tract clear. Never give cious person. If symptoms pe n immediately to hospital. F) osed cup	ial may produce a allowed or vomited. In and seek medical cian. If on skin, rinse well ater. Remove contact wide open while a specialist. anything by mouth to rsist, call a physician.

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Unsuitable extinguishing media	:	High volume water jet.
Specific hazards during fire fighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
Special protective equipment for fire-fighters	:	Wear self-contained breathing apparatus for firefighting if necessary.
Further information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.
Fire and explosion protection	:	Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Keep away from open flames, hot surfaces and sources of ignition.
CTION 6: Accidental release	me	asures
Personal precautions	:	Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
Environmental precautions	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods for cleaning up	:	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
CTION 7: Handling and stora	ige	
Handling		
Advice on safe handling	:	Avoid formation of aerosol. Do not breathe vapors/dust. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.
Advice on protection against fire and explosion	:	Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Keep away from open flames, hot surfaces and sources of ignition.

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Storage

Requirements for storage areas and containers : No smoking. Keep container tightly closed in a dry and wellventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

SECTION 8: Exposure controls/personal protection

Ingredients with workplace control parameters

Components	Basis	Value	Control parameters	Note
Styrene	DE TRGS 900	AGW	20 ppm, 86 mg/m3	Υ,
	compliance with the OEL and biol	ogical tolerance value	es, there is no risk of harming the ur	nborn child
)				
Komponen	Dasar	Nilai	Parameter	Catatan
Komponen	Dasai	INITAL	pengendalian	Catalan
Stirena	ID OEL	NAB	20 ppm,	A4,
	ID OEL	PSD	40 ppm.	A4,
N	rhadap manusia ataupun binatang			
Components	Basis	Value	Control parameters	Note
Styrene	IN OEL	TWA	50 ppm, 215 mg/m3	
	IN OEL	STEL	100 ppm, 425 mg/m3	
MY				
Komponen	Dasar	Nilai	Parameter Kawalan	Nota
Stirena	MY PEL	TWA	20 ppm, 85.2 mg/m3	
РН				
Components	Basis	Value	Control parameters	Note
Styrene	PH OEL	TWA	100 ppm, 420 mg/m3	
JS	L			<u> </u>
Components	Basis	Value	Control parameters	Note
Styrene	OSHA Z-2	TWA	100 ppm,	
*	OSHA Z-2	CEIL	200 ppm,	
	OSHA Z-2	Peak	600 ppm,	
	OSHA Z-1-A	TWA	50 ppm, 215 mg/m3	
	OSHA Z-1-A	STEL	100 ppm, 425 mg/m3	
		TWA	10 ppm,	OTO, A3,
	ACGIH ACGIH	STEL	40 ppm,	OTO, A3,

Biological exposure indices

DE

Substance name	CAS-No.	Control parameters	Sampling time	Update
Styrene	100-42-5	mandelic acid + phenylglyoxylic acid: 600 mg/g Creatinine (Urine)	In case of long- term exposure: after more than one shiftImmediately after exposure or after working hours	2018-06-07

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Styrong Manam	or		SAFE	TY DATA SHE
Styrene Monom Version 3.9	lei		Revision	Date 2021-09-
		mandelic acid + phenylglyoxylic acid: 600 mg/g Creatinine (Urine)	In case of long- term exposure: after more than one shiftImmediately after exposure or after working hours	2018-06-07
D				
Nama bahan	No-CAS	Parameter pengendalian	Waktu pengambilan sampel	Terkini
Ν			I	
Substance name	CAS-No.	Control parameters	Sampling time	Update
MY				
Nama bahan	NoCAS	Parameter Kawalan	Waktu persampelan	Kemaskini
PH				
Substance name	CAS-No.	Control parameters	Sampling time	Update
US				
Substance name	CAS-No.	Control parameters	Sampling time	Update
Styrene	100-42-5	Mandelic acid plus phenylglyoxylic acid: 400 mg/g Creatinine Nonspecific (Urine)	End of shift (As soon as possible after exposure ceases)	2016-03-01
		Styrene: 40 µg/l (Urine)	End of shift (As soon as possible after exposure ceases)	2016-03-01
Consider the poter activities, and othe personal protective exposure to harmf recommended. Th	ntial hazards of this er substances in the e equipment. If en ul levels of this ma ne user should rea ce protection is usu	ned concentrations below the s material (see Section 2), app e work place when designing e gineering controls or work prac- terial, the personal protective d and understand all instructio ually provided for a limited time	licable exposure engineering contr ctices are not ade equipment listed ns and limitations	limits, job ols and selecti equate to preve below is s supplied with
Respiratory protec	ver ma nor res ma occ Us pot	ear a supplied-air NIOSH appro- ntilation or other engineering co- intain minimal oxygen content mal atmospheric pressure. W pirator that provides protection terial if exposure to harmful lev- cur, such as:. Air-Purifying Re- e a positive pressure, air-supp rential for uncontrolled release, els are not known, or other circo- rifying respirators may not prov-	ontrols are adequ of 19.5% by volu ear a NIOSH app when working w vels of airborne n spirator for Organ lying respirator if aerosolization, e cumstances when	ate to ime under proved vith this naterial may nic Vapors. there is exposure re air-
Hand protection	with the whi	e suitability for a specific workp h the producers of the protectiv instructions regarding permea ich are provided by the supplie nsideration the specific local co	ve gloves. Pleas ability and breaktler of the gloves. A	e observe hrough time Also take into

consideration the specific local conditions under which the
product is used, such as the danger of cuts, abrasion, and theSDS Number:1000000685386/14

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	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. Tightly fitting safety goggles.
Skin and body protection	: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate:. Flame retardant antistatic protective clothing. Workers should wear antistatic footwear.
Hygiene measures	: When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.
CTION 9: Physical and chen	nical properties
Information on basic phys	sical and chemical properties
Appearance	
Physical state Color Odor	: liquid : Colorless : Sweet
Safety data	
Flash point	: 31°C (88°F) Method: closed cup
Lower explosion limit	: 0.9 %(V)
Upper explosion limit	: 6.8 %(V)
Oxidizing properties	: no
Autoignition temperature	: 490°C (914°F)
Molecular formula	: C8H8
Molecular weight	: 104.16 g/mol
рН	: Not applicable
Freezing point	: -30.63°C (-23.13°F)
Pour point	No data available
Boiling point/boiling range	: 145.15°C (293.27°F)
Vapor pressure	: 4.50 MMHG at 20°C (68°F)
Relative density	: 0.91 at 20 °C (68 °F)
Water solubility	: 0.029 wt.% styrene in water @ 20 °C (68°F)
Partition coefficient: n- S Number:100000068538	: log Pow: 2.96 7/14

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octanol/water	at 25°C (77°F)
Viscosity, dynamic	: 0.763 cP
Relative vapor density	: 3.6 (Air = 1.0)
Evaporation rate	: No data available
Percent volatile	: 100 % Concentration : 910 g/l
	100 % Concentration : 910 g/l
Conductivity	: < 50 pSm
CTION 10: Stability and react	livity
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 re	actions
Hazardous reactions	: Further information: No decomposition if stored and applied as directed.
	Hazardous reactions: Vapors may form explosive mixture with air.
Conditions to avoid	: Heat, flames and sparks.
Materials to avoid	: No data available.
Other data	: No decomposition if stored and applied as directed.
CTION 11: Toxicological info	rmation
Aquita anal taxiaity	
Acute oral toxicity Styrene	: LD50: > 5,000 mg/kg Species: Rat Sex: male and female
Styrene Monomer Acute inhalation toxicity	: Acute toxicity estimate: 11 mg/l Exposure time: 4 h Test atmosphere: vapor
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	Method: Calculation method
Acute dermal toxicity	
Styrene	: LD50: > 2,000 mg/kg Species: Rat Sex: male and female
Styrene Monomer Skin irritation	: May cause skin irritation in susceptible persons.
Styrene Monomer Eye irritation	: May cause irreversible eye damage.
Sensitization	
Styrene	: Classification: Does not cause skin sensitization. largely based on human evidence.
Repeated dose toxicity	
Styrene	 Species: Mouse, Male and female Sex: Male and female Application Route: Oral Dose: 0. 150, 300 mg/kg Exposure time: 78 wk Number of exposures: 5 d/wk NOEL: 150 mg/kg Lowest observable effect level: 300 mg/kg Species: Rat, male Sex: male Application Route: Inhalation Dose: 0. 500, 650, 850, 1000 ppm Exposure time: 4 wk Number of exposures: 6 h/d, 5 d/wk NOEL: 500 ppm Target Organs: Ototoxicity
Genotoxicity in vitro	
Styrene	: Test Type: Ames test Result: negative
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	Test Type: Cytogenetic assay Result: positive
	Test Type: Reverse mutation assay Result: negative
	Test Type: Mouse lymphoma assay Result: negative
	Test Type: Sister Chromatid Exchange Assay Result: positive
	Test Type: Mammalian cell gene mutation assay Result: negative
Genotoxicity in vivo	
Styrene	: Remarks: No significant adverse effects were reported
Aspiration toxicity	
Styrene	: May be fatal if swallowed and enters airways.
CMR effects	
Styrene	 Carcinogenicity: This substance has been reported to cause tumors in certain animal species. Mutagenicity: In vitro tests showed mutagenic effects which were not observed with in vivo test. Teratogenicity: Did not show teratogenic effects in animal experiments. Reproductive toxicity: No toxicity to reproduction
Styrene Monomer Further information	: Solvents may degrease the skin.
TION 12: Ecological infor	rmation
Toxicity to fish	
Styrene	: LC50: 4.02 mg/l Exposure time: 96 h Species: Pimephales promelas (fathead minnow) flow-through test Test substance: yes Toxic to fish.
Toxicity to daphnia and o	other aquatic invertebrates
Styrene	: EC50: 4.7 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) flow-through test
Toxicity to algae	

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Styrene	E>	C50: 4.9 mg/l kposure time: 72 h becies: Selenastrum capricornutum (algae)
Toxicity to bacteria		
Styrene	Ex Gi Sp	C10: 0.28 mg/l kposure time: 96 h rowth rate becies: Skeletonema costatum (Marine Algae) est substance: yes
Toxicity to daphnia and othe	er aqua	atic invertebrates (Chronic toxicity)
Styrene	E> Sp se Te	OEC: 1.01 mg/l kposure time: 21 d pecies: Daphnia magna (Water flea) emi-static test est substance: yes ethod: OECD Test Guideline 211
Biodegradability		
Styrene		ccording to the results of tests of biodegradability this oduct is considered as being readily biodegradable.
Bioaccumulation		
Styrene	: Do	pes not significantly accumulate in organisms.
Results of PBT assessment	to ve	his substance/mixture contains no components considered be either persistent, bioaccumulative and toxic (PBT), or ery persistent and very bioaccumulative (vPvB) at levels of 1% or higher.
	to ve	his substance/mixture contains no components considered be either persistent, bioaccumulative and toxic (PBT), or ery persistent and very bioaccumulative (vPvB) at levels of 1% or higher.
Additional ecological information	un	n environmental hazard cannot be excluded in the event of aprofessional handling or disposal., Toxic to aquatic life., armful to aquatic life with long lasting effects.
Ecotoxicology Assessment		
Short-term (acute) aquatic hazard	: Тс	oxic to aquatic life.
Long-term (chronic) aquatic hazard	: Ha	armful to aquatic life with long lasting effects.
ECTION 13: Disposal considera	ations	
The information in this SDS po	ertains	only to the product as shipped.
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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, zardous 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				
Product	: The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.				
Contaminated packaging	: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.				
SECTION 14: Transport information	tion				
	shown here are for bulk shipments only, and may not apply to cages (see regulatory definition).				
Goods Regulations for addition etc.) Therefore, the information	estic or international mode-specific and quantity-specific Dangerous onal shipping description requirements (e.g., technical name or names on shown here, may not always agree with the bill of lading shipping Flashpoints for the material may vary slightly between the SDS and the				
	DEPARTMENT OF TRANSPORTATION) IOMER, STABILIZED, 3, III, RQ (STYRENE)				
	AL MARITIME DANGEROUS GOODS) IOMER, STABILIZED, 3, III, (31°C)				
IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION) UN2055, STYRENE MONOMER, STABILIZED, 3, III					
ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE)) UN2055, STYRENE MONOMER, STABILIZED, 3, III, (D/E)					
RID (REGULATIONS CONC DANGEROUS GOODS (EUR UN2055, STYRENE MONC					
OF DANGEROUS GOODS B	IENT CONCERNING THE INTERNATIONAL CARRIAGE BY INLAND WATERWAYS) OMER, STABILIZED, 3, III, ENVIRONMENTALLY HAZARDOUS,				
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Other information

: Styrene Monomer, S.T.3, Cat. Y

Maritime transport in bulk according to IMO instruments

SECTION 15: Regulatory information

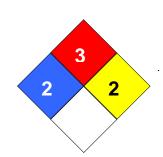
Notification status

Europe REACH	:	On the inventory, or in compliance with the inventory
United States of America (USA)	:	On or in compliance with the active portion of the
TSCA		TSCA inventory
Canada DSL	:	All components of this product are on the Canadian
		DSL
Australia AICS	:	On the inventory, or in compliance with the inventory
New Zealand NZIoC	:	On the inventory, or in compliance with the inventory
Japan ENCS	:	On the inventory, or in compliance with the inventory
Korea KECI	:	Not in compliance with the inventory
Philippines PICCS	:	On the inventory, or in compliance with the inventory
China IECSC	:	On the inventory, or in compliance with the inventory
Taiwan TCSI	:	On the inventory, or in compliance with the inventory

SECTION 16: Other information

NFPA	Classification
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: Health Hazard: 2 Fire Hazard: 3 Reactivity Hazard: 2



Further information

Legacy SDS Number : JCP00001

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		
AICS Australia, Inventory of Chemical		LOAEL	Lowest Observed Adverse Effect
	Substances		Level
DSL	Canada, Domestic Substances	NFPA	National Fire Protection Agency
	List		
NDSL	Canada, Non-Domestic	NIOSH	National Institute for Occupational
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	Substances List		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%		