



Sulfur Control Type E

Version 2.3

Revision Date 2023-11-15

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

Product information

Product Name : Sulfur Control Type E
Material : 1096736

Use : Chemical intermediate

Company : Chevron Phillips Chemical Company LP
10001 Six Pines Drive
The Woodlands, TX 77380

Emergency telephone:

Health:

866.442.9628 (North America)
1.832.813.4984 (International)

Transport:

CHEMTREC 800.424.9300 or 703.527.3887(int'l)
Asia: CHEMWATCH (+612 9186 1132) China: 0532 8388 9090
Mexico CHEMTREC 01-800-681-9531 (24 hours)
South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600
Argentina: +(54)-1159839431
EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)
Austria: VIZ +43 1 406 43 43 (24 hours/day, 7 days/week)
Belgium: 070 245 245 (24 hours/day, 7 days/week)
Bulgaria: +359 2 9154 233
Croatia: +3851 2348 342 (24 hours/day, 7 days/week)
Cyprus: 1401
Czech Republic: Toxicological Information Center +420 224 919 293, +420 224 915 402
Denmark: Danish Poison Center (Gifftlinjen): +45 8212 1212
Estonia: BIG +32.14.584545 (phone) or +32.14583516 (telefax)
Finland: 0800 147 111 09 471 977 (24 hours/day)
France: ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week)
Germany: BIG +32.14.584545 (phone) or +32.14583516 (telefax)
Greece: (0030) 2107793777 (24 hours/day, 7 days/week)
Hungary: +36-80-201-199 (24 hours/day, 7 days/week)
Iceland: 543 2222 (24 hours/day, 7 days/week)
Ireland: BIG +32.14.584545 (phone) or +32.14583516 (telefax)
Italy: BIG +32.14.584545 (phone) or +32.14583516 (telefax)
Latvia: State Fire and Rescue Service, phone number: 112; Toxicology and Sepsis Clinic
Poisoning and Drug Information Center, Hipokrāta 2, Riga, Latvia, LV-1038, phone number +371
67042473. (24 hours.)
Liechtenstein: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

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Lithuania: +370 (85) 2362052
 Luxembourg: (+352) 8002 5500 (24 hours/day, 7 days/week)
 Malta: +356 2395 2000
 The Netherlands: NVIC: +31 (0)88 755 8000
 Norway: 22 59 13 00 (24 hours/day, 7 days/week)
 Poland: BIG +32.14.584545 (phone) or +32.14583516 (telefax)
 Portugal: CIAV phone number: +351 800 250 250
 Romania: +40213183606
 Slovakia: +421 2 5477 4166
 Slovenia: Phone number: 112
 Spain: National Emergency Telephone Number of Spanish Poison Centre: +34 91 562 04 20 (24 hours/day, 7 days/week)
 Sweden: 112 – ask for Poisons Information

Responsible Department : Product Safety and Toxicology Group
 E-mail address : SDS@CPChem.com
 Website : www.CPChem.com

SECTION 2: Hazards identification**Classification of the substance or mixture**

This product has been classified in accordance with the hazard communication standard 29 CFR 1910.1200; the SDS and labels contain all the information as required by the standard.

Classification

: Pyrophoric solids, Category 1
 Eye irritation, Category 2B
 Skin sensitization, Category 1
 Carcinogenicity, Category 1A
 Specific target organ toxicity - repeated exposure, Category 1,
 Inhalation, Respiratory system, Respiratory Tract, Lungs

Labeling

Symbol(s)



Signal Word

: Danger

Hazard Statements

: H250: Catches fire spontaneously if exposed to air.
 H317: May cause an allergic skin reaction.
 H320: Causes eye irritation.
 H350: May cause cancer.
 H372: Causes damage to organs (Respiratory system, Respiratory Tract, Lungs) through prolonged or repeated exposure if inhaled.

Precautionary Statements

: **Prevention:**
 P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
 P222 Do not allow contact with air.
 P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.

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P264 Wash skin thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P272 Contaminated work clothing must not be allowed out of the workplace.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
 P302 + P352 IF ON SKIN: Wash with plenty of soap and 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.
 P308 + P313 IF exposed or concerned: Get medical advice/ attention.
 P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
 P335 + P334 Brush off loose particles from skin. Immerse in cool water/ wrap in wet bandages.
 P337 + P313 If eye irritation persists: Get medical advice/ attention.
 P363 Wash contaminated clothing before reuse.
 P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
Storage:
 P405 Store locked up.
 P422 Store contents under inert gas.
Disposal:
 P501 Dispose of contents/ container to an approved waste disposal plant.

Carcinogenicity:**IARC**

Group 1: Carcinogenic to humans

Nickel Oxide 1313-99-1
 Nickel 7440-02-0
 Crystalline Silica 14808-60-7

Group 2B: Possibly carcinogenic to humans

Nickel 7440-02-0

NTP

Known to be human carcinogen

Nickel Oxide 1313-99-1
 Crystalline Silica 14808-60-7

Reasonably anticipated to be a human carcinogen

Nickel 7440-02-0

SECTION 3: Composition/information on ingredients

Synonyms : Catalyst E
 CPChem Sulfur Control E

Molecular formula : Mixture

Component	CAS-No.	Weight %
Silica, amorphous	7631-86-9	25 - 35

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Nickel Oxide	1313-99-1	20 - 30
Nickel	7440-02-0	20 - 30
Aluminum Oxide	1344-28-1	5 - 15
Crystalline Silica	14808-60-7	0.1 - 2

SECTION 4: First aid measures

- General advice : Move out of dangerous area. Show this material safety data sheet to the doctor in attendance.
- If inhaled : Consult a physician after significant exposure. If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : If on skin, rinse well with water. If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
- If swallowed : Induce vomiting immediately and call a physician. Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

SECTION 5: Firefighting measures

- Flash point : Not applicable
- Autoignition temperature : Catches fire spontaneously if exposed to air.
- Suitable extinguishing media : Alcohol-resistant foam. Carbon dioxide (CO₂). Dry chemical.
- 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 : Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from combustible material.
- Hazardous decomposition : Hydrogen. Decomposes by reaction with strong acids.

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products

Decomposes by reaction with alkaline solutions.

SECTION 6: Accidental release measures

- Personal precautions : Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe 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 an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage**Handling**

- Advice on safe handling : Avoid formation of respirable particles. Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. 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. Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
- Advice on protection against fire and explosion : Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from combustible material.

Storage

- Requirements for storage areas and containers : Prevent unauthorized access. Keep container tightly closed in a dry and well-ventilated 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.
- Use : Chemical intermediate

SECTION 8: Exposure controls/personal protection**Ingredients with workplace control parameters****US**

Components	Basis	Value	Control parameters	Note
Silica, amorphous	OSHA Z-3	TWA	80mg/m3 / %SiO2	Dust
	OSHA Z-3	TWA	20Million particles per cubic foot	Dust
	OSHA Z-3	TWA	80mg/m3 / %SiO2	Dust

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	ACGIH	TWA	10 mg/m3	Total
	ACGIH	TWA	3 mg/m3	Respirable
Nickel Oxide	ACGIH	TWA	0.2 mg/m3	
	OSHA Z-1	TWA	1 mg/m3	
	ACGIH	TWA	0.2 mg/m3	A1, Inhalable particulate matter
	OSHA Z-1-A	TWA	1 mg/m3	
Nickel	OSHA Z-1-A	TWA	1 mg/m3	
	ACGIH	TWA	1.5 mg/m3	A5, Inhalable particulate matter
	OSHA Z-1	TWA	1 mg/m3	
Aluminum Oxide	OSHA Z-1	TWA	15 mg/m3	total dust
	OSHA Z-1	TWA	5 mg/m3	respirable fraction
	OSHA Z-1-A	TWA	10 mg/m3	Total dust
	OSHA Z-1-A	TWA	5 mg/m3	respirable dust fraction
	ACGIH	TWA	1 mg/m3	A4, Respirable particulate matter
Crystalline Silica	OSHA Z-3	TWA	250mppcf / %SiO2+5	respirable
	OSHA Z-3	TWA	10mg/m3 / %SiO2+2	respirable
	OSHA Z-3	TWA	0.1 mg/m3	Respirable fraction
	OSHA Z-1-A	TWA	0.1 mg/m3	respirable dust fraction
	ACGIH	TWA	0.025 mg/m3	A2, Respirable particulate matter
	OSHA Z-1	TWA	0.05 mg/m3	Respirable fraction
	OSHA Z-1	TWA	0.05 mg/m3	(respirable dust)
	OSHA CARC	PEL	0.05 mg/m3	respirable

- A1 Confirmed human carcinogen
A2 Suspected human carcinogen
A4 Not classifiable as a human carcinogen
A5 Not suspected as a human carcinogen

Immediately Dangerous to Life or Health Concentrations (IDLH)

Substance name	CAS-No.	Control parameters	Update
Silica, amorphous	7631-86-9	Immediately Dangerous to Life or Health Concentration Value 3000 mg/m ³	1995-03-01
Nickel Oxide	1313-99-1	Immediately Dangerous to Life or Health Concentration Value 10 mg/m ³	1995-03-01
Nickel	7440-02-0	Immediately Dangerous to Life or Health Concentration Value 10 mg/m ³	1995-03-01
Crystalline Silica	14808-60-7	Immediately Dangerous to Life or Health Concentration Value 50 mg/m ³	1995-03-01

Engineering measures

Adequate ventilation to control airborne 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 Dusts and Mists / P100. 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

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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. Remove and wash contaminated clothing before re-use. Footwear protecting against chemicals. Skin should be washed after contact.
Hygiene measures	:	When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

SECTION 9: Physical and chemical properties**Information on basic physical and chemical properties****Appearance**

Form	:	solid
Physical state	:	solid
Color	:	gray to black
Odor	:	Odorless
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	:	Catches fire spontaneously if exposed to air.
Molecular formula	:	Mixture
Molecular weight	:	Not applicable
pH	:	Not applicable
Melting point/range	:	No data available
Boiling point/boiling range	:	Not applicable

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Vapor pressure	: Not applicable
Relative density	: 0.7
Density	: No data available
Water solubility	: Insoluble
Solubility in other solvents	: No data available
Viscosity, kinematic	: Not applicable
Relative vapor density	: Not applicable
Evaporation rate	: Not applicable

SECTION 10: Stability and reactivity

Reactivity	: Self-heating; may catch fire.
Chemical stability	: No decomposition if stored and applied as directed.
Possibility of hazardous reactions	
Hazardous reactions	: Further information: No decomposition if stored and applied as directed.
Conditions to avoid	: Heat, flames and sparks. Exposure to air..
Materials to avoid	: Acids and bases.
Hazardous decomposition products	: Hydrogen Decomposes by reaction with strong acids. Decomposes by reaction with alkaline solutions.
Other data	: No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

Acute oral toxicity	
Silica, amorphous	: LD50: > 5,000 mg/kg Species: Rat Method: OECD Test Guideline 401
Nickel Oxide	: LD50 Oral: > 5,000 mg/kg Species: Rat
Nickel	: LD50 Oral: > 9,000 mg/kg

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	Species: Rat Method: OECD Test Guideline 401 Test substance: yes
Aluminum Oxide	LD50: > 10,000 mg/kg Species: Rat Method: OECD Test Guideline 401
Sulfur Control Type E Acute inhalation toxicity	: No data available
Acute dermal toxicity	
Aluminum Oxide	: LD50: > 2,000 mg/kg Species: Rabbit Information given is based on data obtained from similar substances.
Sulfur Control Type E Skin irritation	: May cause skin irritation and/or dermatitis.
Sulfur Control Type E Eye irritation	: Product dust may be irritating to eyes, skin and respiratory system.
Sulfur Control Type E Sensitization	: May cause sensitization of susceptible persons by skin contact. Information refers to the main ingredient. Causes sensitization.
Genotoxicity in vitro	
Aluminum Oxide	: Test Type: Ames test Metabolic activation: with and without metabolic activation Result: negative
Carcinogenicity	
Nickel Oxide	:
Sulfur Control Type E Aspiration toxicity	: No aspiration toxicity classification.
CMR effects	
Nickel	: Carcinogenicity: Limited evidence of carcinogenicity in animal studies
Crystalline Silica	Carcinogenicity: Human carcinogen.
Sulfur Control Type E Further information	: No data available.

SECTION 12: Ecological information

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Ecotoxicity effects**Toxicity to fish** : No data available**Toxicity to daphnia and other aquatic invertebrates** : No data is available on the product itself.**Toxicity to algae** : No data available

Biodegradability : Not applicable

Elimination information (persistence and degradability)

Bioaccumulation : No data available

Mobility

Aluminum Oxide : No data available

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful to aquatic life with long lasting effects.

Ecotoxicology Assessment

Short-term (acute) aquatic hazard

Silica, amorphous : This material is not expected to be harmful to aquatic organisms.

Nickel : Harmful to aquatic life.

Aluminum Oxide : This material is not expected to be harmful to aquatic organisms.

Long-term (chronic) aquatic hazard

Silica, amorphous : This material is not expected to be harmful to aquatic organisms.

Nickel Oxide : May cause long lasting harmful effects to aquatic life.

Nickel : Harmful to aquatic life with long lasting effects.

Aluminum Oxide : This material is not expected to be harmful to aquatic organisms.

SECTION 13: Disposal considerations

The information in this SDS pertains only to the product as shipped.

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

Product : 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.

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)

UN3190, SELF-HEATING SOLID, INORGANIC, N.O.S., (NICKEL OXIDE, NICKEL), 4.2, II

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

UN3190, SELF-HEATING SOLID, INORGANIC, N.O.S., (NICKEL OXIDE, NICKEL), 4.2, II

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

UN3190, SELF-HEATING SOLID, INORGANIC, N.O.S., (NICKEL OXIDE, NICKEL), 4.2, II

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

UN3190, SELF-HEATING SOLID, INORGANIC, N.O.S., (NICKEL OXIDE, NICKEL), 4.2, II, (D/E)

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

40, UN3190, SELF-HEATING SOLID, INORGANIC, N.O.S., (NICKEL OXIDE, NICKEL), 4.2, II

ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)

UN3190, SELF-HEATING SOLID, INORGANIC, N.O.S., (NICKEL OXIDE, NICKEL), 4.2, II

Maritime transport in bulk according to IMO instruments

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SECTION 15: Regulatory information**National legislation**

SARA 311/312 Hazards : Pyrophoric (liquid or solid)
 Acute toxicity (any route of exposure)
 Respiratory or skin sensitization
 Carcinogenicity
 Specific target organ toxicity (single or repeated exposure)
 Serious eye damage or eye irritation

CERCLA Reportable Quantity : 333 lbs
 Nickel

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 : The following components are subject to reporting levels established by SARA Title III, Section 313:

- : Nickel Oxide - 1313-99-1
- Nickel - 7440-02-0
- Aluminum Oxide - 1344-28-1

Clean Air Act

Ozone-Depletion Potential : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61):

- : Nickel Oxide - 1313-99-1
- Nickel - 7440-02-0

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

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This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

US State Regulations**Pennsylvania Right To Know**

: Silica, amorphous - 7631-86-9
 Nickel Oxide - 1313-99-1
 Nickel - 7440-02-0
 Aluminum Oxide - 1344-28-1
 Crystalline Silica - 14808-60-7

California Prop. 65 Components

: WARNING! This product contains a chemical known in the State of California to cause cancer.
 Nickel Oxide 1313-99-1
 Nickel 7440-02-0
 Crystalline Silica 14808-60-7

Notification status

Europe REACH : Not in compliance with the inventory
 Switzerland CH INV : Not 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 AIIC : On the inventory, or in compliance with the inventory
 New Zealand NZIoC : Not in compliance with the inventory
 Japan ENCS : Not in compliance with the inventory
 Korea KECI : A substance(s) in this product was not registered,
 notified to be registered, or exempted from registration
 by CPChem according to K-REACH regulations.
 Importation or manufacture of this product is still
 permitted provided the Korean Importer of Record has
 themselves notified the substance or the exported
 amount does not exceed the minimum threshold
 quantity of the non-registered substance(s).
 Philippines PICCS : On the inventory, or in compliance with the inventory
 Taiwan TCSI : On the inventory, or in compliance with the inventory
 China IECSC : On the inventory, or in compliance with the inventory

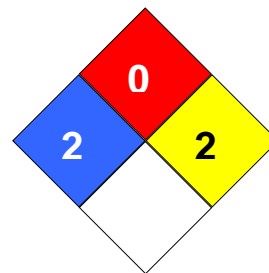
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SECTION 16: Other information

NFPA Classification : Health Hazard: 2
Fire Hazard: 0
Reactivity Hazard: 2

**Further information**

Legacy SDS Number : 5081

Significant changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information in this SDS pertains only to the product as shipped.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Key or legend to abbreviations and acronyms used in the safety data sheet			
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AIIC	Australian Inventory of Industrial Chemicals	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	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

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	New Chemical Substances		
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