SAFETY DATA SHEET



EXP D112-19

Version 1.3

Product information	
Product Name	: EXP D112-19
Company	 Chevron Phillips Chemical Company LP Drilling Specialties Company LLC 10001 Six Pines Drive The Woodlands, TX 77380
Emergency telephone	
Asia: CHEMWATCH Mexico CHEMTREC South America SOS Argentina: +(54)-119 EUROPE: BIG +32. Austria: VIZ +43 1 4 Belgium: 070 245 24 Bulgaria: +359 2 919 Croatia: +3851 2348 Cyprus: 1401 Czech Republic: To: Denmark: Danish Po Estonia: BIG +32.14 Finland: 0800 147 1 France: ORFILA nur Germany: BIG +32.14 Finland: 0800 147 1 France: ORFILA nur Germany: BIG +32.14 Italy: BIG +32.14. Italy: BIG +32.14. Italy: BIG +32.14.58 Latvia: State Fire an Poisoning and Drug 67042473. (24 hour	ernational) 24.9300 or 703.527.3887(int'l) 1 (+612 9186 1132) China: 0532 8388 9090 2 01-800-681-9531 (24 hours) 3 -Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600 59839431 14.584545 (phone) or +32.14583516 (telefax) 06 43 43 (24 hours/day, 7 days/week) 45 (24 hours/day, 7 days/week) 45 (24 hours/day, 7 days/week) 54 233 3 342 (24 hours/day, 7 days/week) xicological Information Center +420 224 919 293, +420 224 915 402 oison Center (Giftlinjen): +45 8212 1212 8.584545 (phone) or +32.14583516 (telefax) 11 09 471 977 (24 hours/day) mber (INRS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week) 14.584545 (phone) or +32.14583516 (telefax) 7793777 (24 hours/day, 7 days/week) 11-199 (24 hours/day, 7 days/week) 24 hours/day, 7 days/week) 2584545 (phone) or +32.14583516 (telefax) 4545 (phone) or +32.1

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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 6 166 :: 112 ncy 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 identification	tion
	tance or mixture sified in accordance with the hazard communication standard 29 CFR bels contain all the information as required by the standard.
Classification	: 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 equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
NTP	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/infor	mation on ingredients
Synonyms	: DRILLING MUD ADDITIVE Emulsifier
Molecular formula	: UVCB
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Component Acid modified petroleum resi	duur	CAS-No. n Proprietary	Weight % 80 - 85	
TION 4: First aid measures				
General advice	:	No hazards which requ	uire special first aid measures.	
If inhaled	:		ter significant exposure. If unconst ion and seek medical advice.	cious
In case of eye contact	:	lenses. Protect unhar	as a precaution. Remove contact med eye. Keep eye wide open whi n persists, consult a specialist.	ile
If swallowed	:	beverages. Never give	clear. Do not give milk or alcoholic e anything by mouth to an unconsc persist, call a physician.	
TION 5: Firefighting measu	res			
Flash point	:	Not applicable		
Autoignition temperature	:	No data available		
Unsuitable extinguishing media	:	High volume water jet.		
Specific hazards during fire fighting	:		or chemical fires. Use extinguishing propriate to local circumstances and ent.	
Special protective equipment for fire-fighters	:	Wear self-contained be necessary.	reathing apparatus for firefighting if	:
Further information	:	•	or chemical fires. Use extinguishing propriate to local circumstances and ent.	-
Fire and explosion protection	:	Avoid dust formation. at places where dust is	Provide appropriate exhaust ventil s formed.	ation
TION 6: Accidental release	mea	sures		
Personal precautions	:		re equipment. Avoid dust formatior Ensure adequate ventilation.	٦.
Environmental precautions	:		e or spillage if safe to do so. If the rivers and lakes or drains inform	
Methods for cleaning up	:	Keep in suitable, close	ed containers for disposal.	
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TION 7: Handling and stor	age	
Handling		
Advice on safe handling	:	Avoid formation of respirable particles. 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. Dispose of rinse water in accordance with local and national regulations.
Advice on protection against fire and explosion	:	Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.
Storage		
Requirements for storage areas and containers	:	Keep container tightly closed in a dry and well-ventilated place. Electrical installations / working materials must comply with the technological safety standards.
TION 8: Exposure controls	s/ner	sonal protection
personal protective equipme	ent.	If engineering controls or work practices are not adequate to preve
personal protective equipme exposure to harmful levels of recommended. The user sh the equipment since protect	ent. of this nould tion is	If engineering controls or work practices are not adequate to preve s material, the personal protective equipment listed below is read and understand all instructions and limitations supplied with s usually provided for a limited time or under certain circumstances
personal protective equipme exposure to harmful levels or recommended. The user sh	ent. of this nould tion is	read and understand all instructions and limitations supplied with s usually provided for a limited time or under certain circumstances
personal protective equipme exposure to harmful levels of recommended. The user sh the equipment since protect	ent. of this nould tion is	If engineering controls or work practices are not adequate to preve s material, the personal protective equipment listed below is read and understand all instructions and limitations supplied with s usually provided for a limited time or under certain circumstances

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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	: 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 cher	nical properties
Information on basic physic	sical and chemical properties
Appearance	
Form Physical state Color Odor Odor Threshold	 Powder solid Dark Brown, Black no odor Not applicable
Safety data	
Flash point	: Not applicable
Lower explosion limit	: Not applicable
Upper explosion limit	: Not applicable
Autoignition temperature	: No data available
Thermal decomposition	: No data available
Molecular formula	: UVCB
рН	: 7-10
Boiling point/boiling range	: Not applicable
Vapor pressure	: Not applicable
Relative density	: Not applicable
Density	: 1.54 g/cm3
Water solubility	: partly soluble
Partition coefficient: n- octanol/water	: No data available
Viscosity, kinematic	: No data available
	: Not applicable

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CTION 10: Stability and reac	
	tivity
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.
Conditions to avoid	: No data available.
Materials to avoid	: No data available.
Thermal decomposition	: No data available
Other data	: No decomposition if stored and applied as directed.
CTION 11: Toxicological info EXP D112-19 Acute oral toxicity	: LD50: > 5,000 mg/kg Species: Rat Sex: male and female
EXP D112-19 Acute inhalation toxicity	: LC50: > 5.3 mg/l
	Exposure time: 4 h Species: Rat Sex: male and female Test atmosphere: dust/mist Method: OECD Test Guideline 403 Rats exposed to a 5.3 mg/L dust aerosol for 4-hr resulted in effects generally expected with high concentrations of dust aerosols made of relatively dense particles. Higher lung weight and atelectasis persisted after the 14-day recovery period. There were no reports of lethality or any significant clinical observations. There was however an acute inflammatory response with evidence of recovery after 14- days. The presence of particulate matter with indication of partial clearance from the lung after the 14-day recovery period was noted. These effects would not be expected during normal operating conditions when using this substance.
EXP D112-19 S Number:100000104066	Species: Rat Sex: male and female Test atmosphere: dust/mist Method: OECD Test Guideline 403 Rats exposed to a 5.3 mg/L dust aerosol for 4-hr resulted in effects generally expected with high concentrations of dust aerosols made of relatively dense particles. Higher lung weight and atelectasis persisted after the 14-day recovery period. There were no reports of lethality or any significant clinical observations. There was however an acute inflammatory response with evidence of recovery after 14- days. The presence of particulate matter with indication of partial clearance from the lung after the 14-day recovery period was noted. These effects would not be expected

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Acute dermal toxicity	: No data available
EXP D112-19 Skin irritation	: No skin irritation
EXP D112-19 Eye irritation	: No eye irritation
EXP D112-19 Sensitization	: Did not cause sensitization on laboratory animals.
EXP D112-19 Repeated dose toxicity	: Species: Rat, male and female Sex: male and female Application Route: oral gavage Dose: 0, 250, 500, 1000 mg/kg Exposure time: 43 - 54 D Number of exposures: daily NOEL: 1,000 mg/kg Method: OECD Guideline 422
EXP D112-19 Genotoxicity in vitro	 Test Type: Ames test Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Remarks: In vitro tests did not show mutagenic effects
	Test Type: Chromosome aberration test in vitro Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative Remarks: In vitro tests did not show mutagenic effects
	Test Type: Mouse lymphoma assay Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative Remarks: In vitro tests did not show mutagenic effects
EXP D112-19 Reproductive toxicity	: Species: Rat Sex: male and female Application Route: oral gavage Dose: 0, 250, 500, 1000 mg/kg Exposure time: 43-54 D Number of exposures: daily Method: OECD Guideline 422 NOAEL Parent: 1,000 mg/kg NOAEL F1: 1,000 mg/kg
EXP D112-19 Developmental Toxicity	: Species: Rat
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	Application Route: oral gavage Dose: 0, 250, 500, 1000 mg/kg Number of exposures: daily Test period: 54 D NOAEL Teratogenicity: 1,000 mg/kg NOAEL Maternal: 1,000 mg/kg
Toxicology Assessment	
EXP D112-19 CMR effects	: Carcinogenicity:
	Not available Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Teratogenicity: Animal testing did not show any effects on fetal development. Reproductive toxicity: Animal testing did not show any effects on fertility.
EXP D112-19 Further information	: No data available.
CTION 12: Ecological information	
Ecotoxicity effects	
Ecotoxicity effects Toxicity to fish	: LC50: > 240 mg/l Exposure time: 96 h Species: Scophthalmus maximus (Flatfish, Flounder) semi-static test Method: OECD Test Guideline 203
-	Exposure time: 96 h Species: Scophthalmus maximus (Flatfish, Flounder)
Toxicity to fish Toxicity to daphnia and	 Exposure time: 96 h Species: Scophthalmus maximus (Flatfish, Flounder) semi-static test Method: OECD Test Guideline 203 : LC50: 380 mg/l Exposure time: 48 h Species: Acartia tonsa (Marine Copepod)
Toxicity to fish Toxicity to daphnia and other aquatic invertebrates	 Exposure time: 96 h Species: Scophthalmus maximus (Flatfish, Flounder) semi-static test Method: OECD Test Guideline 203 : LC50: 380 mg/l Exposure time: 48 h Species: Acartia tonsa (Marine Copepod) static test Method: ISO TC147/SC5/WG2 : EbC50: 240 mg/l Exposure time: 72 h Species: Skeletonema costatum (Marine Algae)
Toxicity to fish Toxicity to daphnia and other aquatic invertebrates	 Exposure time: 96 h Species: Scophthalmus maximus (Flatfish, Flounder) semi-static test Method: OECD Test Guideline 203 LC50: 380 mg/l Exposure time: 48 h Species: Acartia tonsa (Marine Copepod) static test Method: ISO TC147/SC5/WG2 EbC50: 240 mg/l Exposure time: 72 h Species: Skeletonema costatum (Marine Algae) static test Method: ISO 10253 ErC50: 390 mg/l Exposure time: 72 h Species: Skeletonema costatum (Marine Algae)

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	product is not readily biodegradable.
Elimination information (persis	stence and degradability)
Bioaccumulation	: The product may be accumulated in organisms.
Mobility	: immobile Adsorption to solid soil phase is possible.
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 considera	ations
•	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, 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	: Do not dispose of waste into sewer. 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.
CTION 14: Transport informat	tion
	shown here are for bulk shipments only, and may not apply to ages (see regulatory definition).
Goods Regulations for additio 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

US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION) NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS) NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR

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TRANSPORTATION BY THIS AGENCY.

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DANGEROUS GOODS (E	A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR
OF DANGEROUS GOODS	EMENT CONCERNING THE INTERNATIONAL CARRIAGE S BY INLAND WATERWAYS) A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR Y THIS AGENCY.
Maritime transport in bul CTION 15: Regulatory infor National legislation	k according to IMO instruments
CTION 15: Regulatory info	rmation
CTION 15: Regulatory info	rmation : Combustible dust
CTION 15: Regulatory infor National legislation SARA 311/312 Hazards CERCLA Reportable	rmation Combustible dust This material does not contain any components with a CERCL.
CTION 15: Regulatory infor National legislation SARA 311/312 Hazards CERCLA Reportable Quantity SARA 302 Reportable	rmation : Combustible dust : This material does not contain any components with a CERCL RQ. : This material does not contain any components with a SARA

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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 Act Section 112 (40 CFR 61).	any hazardous air pollutants (HAP), as defined by the U.S. Clean Ai
This product does not contain a Accidental Release Prevention	any chemicals listed under the U.S. Clean Air Act Section 112(r) for n (40 CFR 68.130, Subpart F).
This product does not contain a Intermediate or Final VOC's (4	any chemicals listed under the U.S. Clean Air Act Section 111 SOCI 0 CFR 60.489).
Pennsylvania Right To Know	
	: Acid modified petroleum residuum - Proprietary
	 Acid modified petroleum residuum - Proprietary This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.
California Prop. 65	 This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects. This product is in full compliance according to REACH regulation 1907/2006/EC. Not in compliance with the inventory

Project Revision Date 2022-09- 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 Importation compliance with the inventory Exponence with the inventory Exponence with the inventory Exponence with the inventory. ECTION 16: Other information Not in compliance with the inventory. ECTION 16: Other information Importation Compliance with the inventory. ECTION 16: Other information Importation Compliance with the inventory. ECTION 16: Other information Importation Compliance with the inventory. ECTION 16: Other information Importation Compliance with the inventory. ECTION 16: Other information Importation Compliance with the inventory. ECTION 16: Other information Importation Compliance with the inventory. ECTION 16: Other information Importation Compliance with the inventory. ECTION 16: Other information Importation Compliance With the inventory. ECTION 16: Other information Importation Compliance With the inventory. Export Compliance View Provided Integration. Importation Compliance With the inventory. Export Compliance View Provided Integration. Importation Compliance View Provided Integration.	n or manufacture of this product is still provided the Korean Importer of Record has is notified the substance or the exported bes not exceed the minimum threshold if the non-registered substance(s). Inpliance with the inventory inpliance with the inventory inpliance with the inventory of 200 200 200 200 200 200 200 200 200 200
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 : Not in compliance with the inventory Taiwan TCSI : Not in compliance with the inventory China IECSC : Not in compliance with the inventory China IECSC : Not in compliance with the inventory China IECSC : Not in compliance with the inventory China IECSC : Not in compliance with the inventory China IECSC : Not in compliance with the inventory China IECSC : Not in compliance with the inventory China IECSC : Not in compliance with the inventory China IECSC : Not in compliance with the inventory China IECSC : Not in compliance with the inventory China IECSC : Not in compliance with the inventory China IECSC : Not in compliance with the inventory China IECSC : Not in compliance with the inventory China IECSC : Not in compliance with the inventory China IECSC : Not in compliance with the inventory China IECSC : Not in compliance with the inventory China IECSC : Not in compliance with the inventory China IECSC : Not in compliance with the inventory China IECSC : Not in compliance with the inventory China IECSC : Not in compliance into the construction in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. 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 leggend to abbreviations and acronyms used in the safety data sheet ACGH Austorial Hygienistis AICS Austorial Hygienistis LD50 Lethal Dose 50% Substances I Instrumeto	n or manufacture of this product is still provided the Korean Importer of Record has is notified the substance or the exported bes not exceed the minimum threshold if the non-registered substance(s). Inpliance with the inventory inpliance with the inventory inpliance with the inventory of 200 200 200 200 200 200 200 200 200 200
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 : Not in compliance with the inventory China IECSC : Not in Compliance in the solution of the substance of the sub- revious 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 relates on ly 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. <u>Key or legend to abbreviations and acronyms used in the safety data sheet AcGH American Conference of Australa, Inventory of Chemical IDSO Level Data National Institute for Occupational Substances List Usatian, Inventory of Chemical Safety & Health Substances List Conserved Adverse Effect Level Effective Concen</u>	provided the Korean Importer of Record has as notified the substance or the exported bes not exceed the minimum threshold if the non-registered substance(s). Inpliance with the inventory inpliance with the inventory inpliance with the inventory of 200 200 200 200 200 200 200 200 200 200
Taiwan TCSI : Not in compliance with the inventory China IECSC : Not in compliance with the inventory ECTION 16: Other information NFPA Classification : Health Hazard: 1 Fire Hazard: 2 Reactivity Hazard: 0 Further information 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 in this SDS pertains only to the product as shipped. The information name below the deal of its publication. The information replaces all or knowledge, information and belief at the date of its publication. The information relates only to the specific material designed 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 AICS Australia, Inventory of Chemical AICS Australia, Inventory of Chemical AICS Australia, Inventory of Chemical AICS Australia, Inventory of Chemical AICS Australia, Inventory of Chemical CAS Chemical AD onessic NIOSH National Fire Protection Agency List CAS Chemical AD onessic NIOSH National Fire Protection Agency NDSL Canada, Non-Domestic AICS Australia, Inventory of Chemical CAS Chemical AD onessic Substances NIOSH National Institute for Occupational Safety & Health CAS Chemical Abstract Service NIOSH National Institute for Occupational Safety & Health CAS Chemical Abstract Service NIOSH National Institute for Occupational Safety & Health CAS Chemical Abstract Service NIOSH Pational Safety & Health CAS Chemical Substances NIOSH Pational Safety & Health Administration Commercial Chemicals Abstract Service NIOSH Pational Safety & Health Administration EOSCA E	o 2 0 2 1 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 0 2 0 0 2 0 0 2 0 0 2 0 0 2 0 0 2 0 0 2 0 0 2 0 0 2 0 2 0 2 0 2 0 2 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 2 0 2 2 0 2 2 0 2 2 0 2 2 0 2 2 2 0 2 2 2 2 2 2 2 2 2 2 2 2 2
NFPA Classification : Health Hazard: 1 Fire Hazard: 2 Reactivity Hazard: 0 Further information 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 Bubstances List LO50 Lethal Dose 50% Government Industrial Hygienists DS0 AICS Australia, Inventory of Chemical List LD50 Lethal Dose 50% Concentered Adverse Effect Level NDSL Canada, Domestic Substances NFPA National Institute for Occupational Safety & Health CAS Chemical Abstract Service NZloC New Zealand Inventory of Chemicals Association CAS Chemical Abstract Service NZloC New Zealand Inventory of Chemicals Association CAS Effective Concentration NOAEL Nobserved Eff	ghted in the margin. This version replaces all duct as shipped. Is correct to the best of our knowledge, The information given is designed only as a
Fire Hazard: 2 Reactivity Hazard: 0	ghted in the margin. This version replaces all duct as shipped. Is correct to the best of our knowledge, The information given is designed only as a
Key or legend to abbreviations and acronyms used in the safety data sheet ACGIH American Conference of Government Industrial Hygienists NISL Canada, Domestic Substances NFA National Institute for Occupational Substances List NDSL Canada, Non-Domestic Substances NDSL Canada, Non-Domestic Substances List CAS Chemical Astract Service NDSL Central Nervous System CAS Chemical Astract Service NDSL Central Nervous System CAS Chemical Service NDSL Central Nervous System CAS Chemical Service EGSCA Explanel Nicel Service CAS Chemical Astract Service CAS Chemical Astract Service NDSL Central Nervous System CAS Chemical Astract Service	ghted in the margin. This version replaces all duct as shipped. Is correct to the best of our knowledge, The information given is designed only as a
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 AICS Australia, Inventory of Chemical LOAEL Lowest Observed Adverse Effect Level DSL Canada, Domestic Substances NFPA NIDSL Canada, Non-Domestic NIOSH NUSL Canada, Non-Domestic NIOSH Nubstances List NIOSH National Institute for Occupational Substances CAS Chemical Abstract Service NZIoC New Zealand Inventory of Chemicals EC50 Effective Concentration 50% NOEC No Observed Effect Concentration Administration EC51 EOSCA Generic Exposu	duct as shipped. s correct to the best of our knowledge, The information given is designed only as a
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 AICS Australia, Inventory of Chemical LOAEL Lowest Observed Adverse Effect Level DSL Canada, Non-Domestic NIOSH National Fire Protection Agency List NDSL Central Abstract Service NZIoC New Zealand Inventory of Chemical Substances List NIOSH National Institute for Occupational Safety & Health CNS Central Abstract Service NZIoC New Zealand Inventory of Chemicals EC50 Effective Concentration 50% NOEC No Observable Adverse Effect Level EC50 Effective Concentration 50% NOEC No Observable Adverse Effect Level	duct as shipped. s correct to the best of our knowledge, The information given is designed only as a
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SAFETY DATA SHEET

Version 1.3

>=	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%		