## C20-24

Version 1.11

Chem

Revision Date 2022-12-01

Product Name : C20-24 Company : Qatar Chemical Company LTD (QChem) Arnwal Tower, Omar Al Mukhtar St, Al-Dafna (Zone 61) PO Box 24646 Doha, Qatar SDS Requests: (+974) 4484-7110 Technical Information: (+974) 4476-7145 Responsible Party: Product Safety Group Email: MSDSInquiry@qchem.com.qa Emergency telephone: Health: 866.442.9628 (North America) 1.332.813.4984 (International) Transport: CHEMTREC 800.424.9300 or 703.527.3887(int') Asia: CHEMWATCH (+612 9186 1132) China: 0532 8388 9090 Mexico CHEMTREC 10-800-681-9531 (24 hours) South America SOS-Cotec Inside Frazil: 0800.111.767 Outside Brazil: +55.19.3467.1600 Argentina: +(54)-1159839431 EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Austria: V12 +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) Belgium: 359 2 9154 233 Croatia: +3351 2348 342 (24 hours/day, 7 days/week) Bulgaria: +359 12348 342 (24 hours/day, 7 days/week) Bulgaria: +359 2 9154 233 Croatia: +3351 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 (Giftinjen): +45 8212 1212 Estonia: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Finance: 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) Greece: (0030) 2107793777 (24 hours/day, 7 days/week) Hungary: +36-80-201-199 (24 hours/day, 7 days/week) Ireland: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Greece: (0030) 2107793777 (24 hours/day, 7 days/week) Ireland: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Ireland: BIG +32.14.584545 (phone) or +32.14583516 (telefax)		
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Lithuania: +370 (85) 2362052	Transport: CHEMTREC 800.42 Asia: CHEMWATCH Mexico CHEMTREC South America SOS Argentina: +(54)-11 EUROPE: BIG +32. Austria: VIZ +43 1 4 Belgium: 070 245 24 Bulgaria: +359 2 91 Croatia: +3851 2348 Cyprus: 1401 Czech Republic: To Denmark: Danish P Estonia: BIG +32.14 Finland: 0800 147 1 France: ORFILA nu Germany: BIG +32.14 Finland: 543 2222 (2 Ireland: 543 2222 (2) Iceland: 543 2222 (2) Iceland: 543 2222 (2) Ireland: BIG +32.14 Italy: BIG +32.14 Italy: BIG +32.14 State Fire ar Poisoning and Drug 67042473. (24 hou	24.9300 or 703.527.3887(int'l) 4 (+612 9186 1132) China: 0532 8388 9090 C 01-800-681-9531 (24 hours) -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 bison Center (Giftlinjen): +45 8212 1212 .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) 584545 (phone) or +32.14583516 (telefax) 4545 (phone) or +32.14583516 (telefax)

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Malta: +356 2395 2000 The Netherlands: NVIC: - Norway: 22 59 13 00 (24 Poland: BIG +32.14.5845 Portugal: CIAV phone nu Romania: +40213183606 Slovakia: +421 2 5477 41 Slovenia: Phone number:	hours/day, 7 days/week) 545 (phone) or +32.14583516 (telefax) mber: +351 800 250 250 5 166 : 112 cy Telephone Number of Spanish Poison Centre: +34 91 562 04 20 (24
Responsible Department E-mail address Website	<ul> <li>Product Safety and Toxicology Group</li> <li>SDS@CPChem.com</li> <li>www.CPChem.com</li> </ul>
CTION 2: Hazards identificat	lion
Classification	els contain all the information as required by the standard. : Aspiration hazard, Category 1
Labeling	
Symbol(s)	
Signal Word	$\mathbf{v}$
g	: Danger
Hazard Statements	<ul><li>Danger</li><li>H304: May be fatal if swallowed and enters airways.</li></ul>
-	-
Hazard Statements	<ul> <li>H304: May be fatal if swallowed and enters airways.</li> <li>Response: P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. P331 Do NOT induce vomiting. Storage: P405 Store locked up. Disposal: P501 Dispose of contents/ container to an approved waste</li> </ul>
Hazard Statements Precautionary Statements	<ul> <li>H304: May be fatal if swallowed and enters airways.</li> <li>Response: P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. P331 Do NOT induce vomiting. Storage: P405 Store locked up. Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.</li> </ul> No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed
Hazard Statements Precautionary Statements Carcinogenicity:	<ul> <li>H304: May be fatal if swallowed and enters airways.</li> <li>Response: <ul> <li>P301 + P310</li> <li>IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.</li> <li>P331</li> <li>Do NOT induce vomiting.</li> </ul> </li> <li>Storage: <ul> <li>P405</li> <li>Store locked up.</li> </ul> </li> <li>Disposal: <ul> <li>P501</li> <li>Dispose of contents/ container to an approved waste disposal plant.</li> </ul> </li> </ul>

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	iati	on on ingredients	
Synonyms	:	NAO 20-24 C20-24 Alpha Olefin Fraction	
Molecular formula	:	UVCB	
Component		CAS-No. Weight %	
Alkenes, C20-24 α-		93924-10-8 100	
1-Eicosene		3452-07-1 35 - 55	
1-Docosene		1599-67-3 25 - 45	
1-Tetracosene		10192-32-2 10 - 26	
1-Hexacosene		18835-33-1 0 - 2	
1-Octadecene		112-88-9 0 - 0.1	
CTION 4: First aid measures			
General advice	:	No hazards which require special first aid me	asures.
If inhaled	:	If unconscious, place in recovery position an advice. If symptoms persist, call a physician	
In case of skin contact	:	If skin irritation persists, call a physician. If o with water. If on clothes, remove clothes.	n skin, rinse well
In case of eye contact	:	Flush eyes with water as a precaution. Rem lenses. Protect unharmed eye. Keep eye w rinsing. If eye irritation persists, consult a sp	de open while
If swallowed	:	Keep respiratory tract clear. Do not give mill beverages. Never give anything by mouth to person. If symptoms persist, call a physician	an unconscious
CTION 5: Firefighting measu	res		
	:	183°C (361°F) Method: PMCC	
Flash point			
Flash point Autoignition temperature	:	239°C (462°F)	
	:	239°C (462°F) High volume water jet.	
Autoignition temperature Unsuitable extinguishing	:		
Autoignition temperature Unsuitable extinguishing media Specific hazards during fire	: :	High volume water jet. Standard procedure for chemical fires. Use measures that are appropriate to local circun	nstances and the
Autoignition temperature Unsuitable extinguishing media Specific hazards during fire fighting Special protective	: : : :	High volume water jet. Standard procedure for chemical fires. Use measures that are appropriate to local circun surrounding environment. Wear self-contained breathing apparatus for	firefighting if

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		measures that are appropriate to local circumstances and the surrounding environment.
Fire and explosion protection	:	Provide appropriate exhaust ventilation at places where dust is formed.
CTION 6: Accidental release	me	asures
Personal precautions	:	Use personal protective equipment. Avoid dust formation. Avoid breathing dust.
Environmental precautions	:	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	:	Keep in suitable, closed containers for disposal.
CTION 7: Handling and stora	age	
Handling		
Advice on safe handling	:	Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.
Advice on protection against fire and explosion	:	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.
CTION 8: Exposure controls	Inor	sonal protection
	per	
Engineering measures		
Consider the potential hazar activities, and other substand personal protective equipme exposure to harmful levels of recommended. The user sho	ds c ces nt. f this oulc	irborned concentrations below the exposure guidelines/limits. If this material (see Section 2), applicable exposure limits, job in the work place when designing engineering controls and selecting of engineering controls or work practices are not adequate to prever 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 equipr	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. If exposure to harmful levels of airborne material may occur, a NIOSH approved respirator that

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	provides protection may be appropriate, such as:. Air-Purifying Respirator for Organic Vapors, Dusts and Mists. A positive pressure, air-supplying respirator may be appropriate if there is potential for uncontrolled release, aerosolization, exposure levels are not known, or other circumstances where air- purifying respirators may not provide adequate protection.
Hand protection	: The suitability for a specific workplace should be discussed with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Eye protection	: Eye wash bottle with pure water. Safety glasses.
Skin and body protection	: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate:. 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.
ECTION 9: Physical and chem	nical properties
Information on basic phys	sical and chemical properties
Appearance	
Form Physical state Color	: Wax., solid : solid : White
Safety data	
Flash point	: 183°C (361°F) Method: PMCC
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Oxidizing properties	: no
Autoignition temperature	: 239°C (462°F)
Molecular formula	: UVCB
Molecular weight	: Varies
рН	: Not applicable
Melting point/range	: 35°C (95°F)
Pour point	No data available
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Boiling point/boiling range	: 342-390°C (648-734°F)
Vapor pressure	: < 0.01 kPa at 65°C (149°F)
Relative density	: 0.8 at 15.6 °C (60.1 °F)
Density	: 815 kg/m3 at 15°C (59°F)
	792 kg/m3 at 50°C (122°F)
Water solubility	: Soluble in hydrocarbon solvents; insoluble in water.
Partition coefficient: n- octanol/water	: No data available
Viscosity, kinematic	: 6.356 cSt at 40°C (104°F)
Relative vapor density	: Not applicable
Evaporation rate	: Not applicable
Reactivity Chemical stability	<ul> <li>Stable at normal ambient temperature and pressure.</li> <li>This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.</li> </ul>
Possibility of hazardous re	
Hazardous reactions	: Further information: No decomposition if stored and applied as directed.
Conditions to avoid	: No data available.
Materials to avoid	: No data available.
Other data	: No decomposition if stored and applied as directed.
SECTION 11: Toxicological info	rmation
C20-24 Acute oral toxicity	: LD50 Oral: > 5,000 mg/kg Species: Rat
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	Sex: male and female Method: OECD Test Guideline 423 Test substance: yes
C20-24 Acute inhalation toxicity	: LC50: 110.1 mg/LExposure time: 4 h Species: Rat Sex: male Test atmosphere: vapor Method: OECD Test Guideline 403 Information given is based on data obtained from similar substances.
C20-24 Acute dermal toxicity	<ul> <li>LD50 Dermal: &gt; 2,000 mg/kg Species: Rat Sex: male and female Method: OECD Test Guideline 402 Information given is based on data obtained from similar substances.</li> </ul>
C20-24 Skin irritation	: No skin irritation.
C20-24 Eye irritation	: No eye irritation. Information given is based on data obtained from similar substances.
C20-24 Sensitization	: Did not cause sensitization on laboratory animals.
Repeated dose toxicity	
Alkenes, C20-24 α-	<ul> <li>Species: Rat, Male and female Sex: Male and female Application Route: oral gavage Dose: 100, 500, 1000 mg/kg/d Exposure time: 42-51 days Number of exposures: Daily NOEL: 1000 mg/kg bw/day Method: OECD Guideline 422</li> </ul>
SDS Number:100000068832	7/15

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	Species: Rat, Male and female Sex: Male and female Application Route: oral gavage Dose: 100, 500, 1000 mg/kg/d Exposure time: 13 weeks Number of exposures: 7 d/wk NOEL: 1000 mg/kg bw/day Method: OCED Guideline 408
	Species: Rat, Male and female Sex: Male and female Application Route: Inhalation Dose: 300, 1000, 3000 ppm Exposure time: 13 weeks Number of exposures: 5 d/wk, 6 hrs/d NOEL: 3000 ppm Method: OECD Guideline 413
1-Octadecene	Species: rat (female) Application Route: oral gavage Dose: 0, 100, 500, 1000 mg/kg/d NOEL: 1,000 mg/kg Method: OECD Guideline 422 Information given is based on data obtained from similar substances.
Genotoxicity in vitro	
Alkenes, C20-24 α-	: Test Type: Ames test Metabolic activation: with and without metabolic activation Result: negative
	Test Type: Ames test Metabolic activation: with and without metabolic activation Result: negative
	Test Type: Mammalian cell gene mutation assay Metabolic activation: with and without metabolic activation Method: OECD Guideline 476 Result: negative
	Test Type: Chromosome aberration test in vitro Result: negative
1-Octadecene	Test Type: Ames test Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative
	Test Type: Chromosome aberration test in vitro Test system: rodent hepatocytes Method: OECD Test Guideline 473 Result: negative
Genotoxicity in vivo	
Alkenes, C20-24 α-	: Test Type: Mouse micronucleus assay Species: Mouse Exposure time: 500, 1,000, 2,000 mg/kg
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	Method: Mutagenicity (micronucleus test) Result: negative
	Test Type: Mouse micronucleus assay Species: Mouse Exposure time: 1,000, 10,000, 25,000 ppm Method: Mutagenicity (micronucleus test) Result: negative
Reproductive toxicity	
Alkenes, C20-24 α-	<ul> <li>Species: Rat Sex: male and female Application Route: oral gavage Dose: 100, 500, 1000 mg/kg/day Number of exposures: Daily Test period: 41-55 days Method: OECD Guideline 422 NOAEL Parent: 1000 mg/kg bw/day NOAEL F1: 1000 mg/kg bw/day</li> <li>Species: Rat Sex: male and female Application Route: oral gavage Dose: 100, 500, 1000 mg/kg/d Number of exposures: Daily Test period: 42-51days Method: OECD Guideline 421 NOAEL Parent: 1000 mg/kg bw/day NOAEL F1: 1000 mg/kg bw/day</li> </ul>
1-Octadecene	Species: Rat Sex: male and female Application Route: oral gavage Dose: 0, 100, 500, 1000 mg/kg/d Method: OECD Guideline 421 NOAEL Parent: 1,000 mg/kg NOAEL F1: 1,000 mg/kg Information given is based on data obtained from similar substances.
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Aspiration toxicity	: May be fatal if swallowed and enters airways.
CMR effects Alkenes, C20-24 α-	: Carcinogenicity: Not available
	Mutagenicity: Did not show mutagenic effects in animal experiments. Teratogenicity: Did not show teratogenic effects in animal experiments. Reproductive toxicity: No toxicity to reproduction
1-Octadecene	Carcinogenicity: Not available Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Teratogenicity: Not available Reproductive toxicity: No toxicity to reproduction
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C20-24 Further information	: No data available.
CTION 12: Ecological informa	ation
Ecotoxicity effects	
Toxicity to fish	<ul> <li>LL50: &gt; 1,000 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) semi-static test Method: OECD Test Guideline 203 The product has low solubility in the test medium. An aqueous dispersion was tested.</li> </ul>
Toxicity to daphnia and other aquatic invertebrates	: EL50: 1,000 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) static test Method: OECD Test Guideline 202
Toxicity to algae	<ul> <li>EL50: &gt; 1,000 mg/l Exposure time: 72 h Species: Selenastrum capricornutum (algae) static test Method: OECD Test Guideline 201 The product has low solubility in the test medium. An aqueous dispersion was tested.</li> </ul>
Toxicity to bacteria	
1-Octadecene	: NOEC: 3 mg/l Exposure time: 120 h Respiration inhibition
Biodegradability	: This material is expected to be readily biodegradable. Information given is based on data obtained from similar substances.
Elimination information (persis	stence and degradability)
Bioaccumulation	: This material is not expected to bioaccumulate.
Mobility	: No data available
Results of PBT assessment	: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Additional ecological information	: No data available

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**Ecotoxicology Assessment** 

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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.
ECTION 13: Disposal considera	ations
The information in this SDS pe	ertains only to the product as shipped.
may meet the criteria of a haz other State and local regulatio regulated components may be	purpose or recycle if possible. This material, if it must be discarded, ardous 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 one, 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.
The shipping descriptions s	ion hown here are for bulk shipments only, and may not apply to ages (see regulatory definition).
shipments in non-bulk pack Consult the appropriate dome Goods Regulations for addition etc.) Therefore, the information	hown here are for bulk shipments only, and may not apply to
The shipping descriptions s shipments in non-bulk pack Consult the appropriate dome: Goods Regulations for addition etc.) Therefore, the informatic description for the material. F bill of lading. US DOT (UNITED STATES D NOT REGULATED AS A H TRANSPORTATION BY T When shipment is offered for	<ul> <li>chown here are for bulk shipments only, and may not apply to ages (see regulatory definition).</li> <li>stic or international mode-specific and quantity-specific Dangerous nal shipping description requirements (e.g., technical name or names on shown here, may not always agree with the bill of lading shipping lashpoints for the material may vary slightly between the SDS and the DEPARTMENT OF TRANSPORTATION)</li> <li>HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR HIS AGENCY.</li> <li>for transport at or above 100°C it is regulated as:</li> </ul>
<ul> <li>The shipping descriptions s shipments in non-bulk pack</li> <li>Consult the appropriate dome: Goods Regulations for additionetc.) Therefore, the informatic description for the material. F bill of lading.</li> <li>US DOT (UNITED STATES D NOT REGULATED AS A H TRANSPORTATION BY T When shipment is offered for UN3257, ELEVATED TEM 9, III</li> <li>IMO / IMDG (INTERNATIONAL</li> </ul>	<ul> <li>Above here are for bulk shipments only, and may not apply to ages (see regulatory definition).</li> <li>stic or international mode-specific and quantity-specific Dangerous nal shipping description requirements (e.g., technical name or names on shown here, may not always agree with the bill of lading shipping lashpoints for the material may vary slightly between the SDS and the AZARDOUS MATERIAL OR DANGEROUS GOODS FOR HIS AGENCY.</li> <li>For transport at or above 100°C it is regulated as:</li> <li>IPERATURE LIQUID, N.O.S., (ALPHA OLEFIN FRACTION, C20-24)</li> <li>AL MARITIME DANGEROUS GOODS HOR</li> </ul>
<ul> <li>The shipping descriptions s shipments in non-bulk pack</li> <li>Consult the appropriate dome: Goods Regulations for addition etc.) Therefore, the informatic description for the material. F bill of lading.</li> <li>US DOT (UNITED STATES D NOT REGULATED AS A H TRANSPORTATION BY T</li> <li>When shipment is offered for UN3257, ELEVATED TEM 9, III</li> <li>IMO / IMDG (INTERNATION BY T</li> </ul>	<ul> <li>Above here are for bulk shipments only, and may not apply to ages (see regulatory definition).</li> <li>stic or international mode-specific and quantity-specific Dangerous nal shipping description requirements (e.g., technical name or names on shown here, may not always agree with the bill of lading shipping lashpoints for the material may vary slightly between the SDS and the AZARDOUS MATERIAL OR DANGEROUS GOODS FOR HIS AGENCY.</li> <li>FOR TRANSPORTATION Transport at or above 100°C it is regulated as:</li> <li>IPERATURE LIQUID, N.O.S., (ALPHA OLEFIN FRACTION, C20-24)</li> <li>AL MARITIME DANGEROUS GOODS HOR</li> <li>HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR</li> </ul>
<ul> <li>The shipping descriptions s shipments in non-bulk pack</li> <li>Consult the appropriate dome: Goods Regulations for additionetc.) Therefore, the informatic description for the material. F bill of lading.</li> <li>US DOT (UNITED STATES D NOT REGULATED AS A H TRANSPORTATION BY T When shipment is offered for UN3257, ELEVATED TEM 9, III</li> <li>IMO / IMDG (INTERNATION BY T TRANSPORTATION BY T TRANSPOR</li></ul>	Anome here are for bulk shipments only, and may not apply to ages (see regulatory definition). stic or international mode-specific and quantity-specific Dangerous nal shipping description requirements (e.g., technical name or names on shown here, may not always agree with the bill of lading shipping lashpoints for the material may vary slightly between the SDS and the <b>DEPARTMENT OF TRANSPORTATION)</b> HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR HIS AGENCY. for transport at or above 100°C it is regulated as: IPERATURE LIQUID, N.O.S., (ALPHA OLEFIN FRACTION, C20-24) AL MARITIME DANGEROUS GOODS) HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR HIS AGENCY.
<ul> <li>The shipping descriptions s shipments in non-bulk pack</li> <li>Consult the appropriate dome: Goods Regulations for additionetc.) Therefore, the informatic description for the material. F bill of lading.</li> <li>US DOT (UNITED STATES D NOT REGULATED AS A H TRANSPORTATION BY T When shipment is offered for UN3257, ELEVATED TEM 9, III</li> <li>IMO / IMDG (INTERNATION BY T When shipment is offered for UN3257, ELEVATED AS A H TRANSPORTATION BY T When shipment is offered for UN3257, ELEVATED TEM 9, III</li> <li>IMO / IMDG (INTERNATION BY T When shipment is offered for UN3257, ELEVATED TEM 9, III</li> <li>IMO / IMDG (INTERNATION BY T When shipment is offered for UN3257, ELEVATED TEM 9, III (183°C)</li> <li>IATA (INTERNATIONAL AIR</li> </ul>	hown here are for bulk shipments only, and may not apply to ages (see regulatory definition). stic or international mode-specific and quantity-specific Dangerous nal shipping description requirements (e.g., technical name or names on shown here, may not always agree with the bill of lading shipping lashpoints for the material may vary slightly between the SDS and the <b>PEPARTMENT OF TRANSPORTATION)</b> HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR HIS AGENCY. for transport at or above 100°C it is regulated as: IPERATURE LIQUID, N.O.S., (ALPHA OLEFIN FRACTION, C20-24) AL MARITIME DANGEROUS GOODS) HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR HIS AGENCY.

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TRANSPORTATION BY THIS AGENCY.

When shipment is offered for transport at or above 100°C it is regulated as:

UN3257, 9: NOT PERMITTED FOR TRANSPORT

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

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

When shipment is offered for transport at or above 100°C it is regulated as:

UN3257, ELEVATED TEMPERATURE LIQUID, N.O.S., (ALPHA OLEFIN FRACTION, C20-24) , 9, III , (D)

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

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

When shipment is offered for transport at or above 100°C it is regulated as:

UN3257, ELEVATED TEMPERATURE LIQUID, N.O.S., (ALPHA OLEFIN FRACTION, C20-24) , 9, III

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

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

When shipment is offered for transport at or above 100°C it is regulated as:

UN3257, ELEVATED TEMPERATURE LIQUID, N.O.S., (ALPHA OLEFIN FRACTION, C20-24) , 9, III

Other information	: OLEFINS (C13 +, all isomers), S.T. 2, Cat.Y

Maritime transport in bulk according to IMO instruments

#### **SECTION 15: Regulatory information**

**National legislation** 

SARA 311/312 Hazards	: Aspiration hazard
CERCLA Reportable Quantity	: This material does not contain any components with a CERCLA RQ.

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Yersion 1.11       Revision Date 2022-12         SARA 302 Reportable Quantity       In this material does not contain any components with a SARA 302 RQ.         SARA 302 Threshold Planning Quantity       In this material does not contain any components with a section 302 EHS TPQ.         SARA 304 Reportable Quantity       In this material does not contain any components with a section 304 EHS RQ.         SARA 313 Components       In 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       Ozone-Depletion Class I ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App. A + B).         This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112 (40 CFR 61).         This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112 (40 CFR 61).         This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112 (40 CFR 61).         This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112 (40 CFR 61).         This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112 (40 CFR 61).         This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112 (40 CFR 61).         This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112 (40 CFR 60).         US State Regulations
Quantity       302 RQ.         SARA 302 Threshold Planning Quantity       : This material does not contain any components with a section 302 EHS TPQ.         SARA 304 Reportable Quantity       : This material does not contain any components with a section 304 EHS RQ.         SARA 313 Components       : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.         Clean Air Act       Ozone-Depletion Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).         This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean A Act Section 112 (40 CFR 61).         This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) fo Accidental Release Prevention (40 CFR 68.130, Subpart F).         This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 CO Intermediate or Final VOC's (40 CFR 60.489).
Planning Quantity       302 EHS TPQ.         SARA 304 Reportable Quantity       : This material does not contain any components with a section 304 EHS RQ.         SARA 313 Components       : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.         Clean Air Act       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).         This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean A Act Section 112 (40 CFR 61).         This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) fo Accidental Release Prevention (40 CFR 68.130, Subpart F).         This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOC Intermediate or Final VOC's (40 CFR 60.489).
Quantity       304 EHS RQ.         SARA 313 Components       : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.         Clean Air Act       Ozone-Depletion       : 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).         This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean A Act Section 112 (40 CFR 61).         This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) fo Accidental Release Prevention (40 CFR 68.130, Subpart F).         This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOC Intermediate or Final VOC's (40 CFR 60.489).
known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.         Clean Air Act         Ozone-Depletion       : 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).         This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).         This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) fo Accidental Release Prevention (40 CFR 68.130, Subpart F).         This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) fo Accidental Release Prevention (40 CFR 68.130, Subpart F).         This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) fo Accidental Release Prevention (40 CFR 68.130, Subpart F).         This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOC Intermediate or Final VOC's (40 CFR 60.489).
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).This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean A Act Section 112 (40 CFR 61).This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) fo Accidental Release Prevention (40 CFR 68.130, Subpart F).This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) fo Accidental Release Prevention (40 CFR 68.130, Subpart F).This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOC Intermediate or Final VOC's (40 CFR 60.489).
Potential       Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).         This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean A Act Section 112 (40 CFR 61).         This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) fo Accidental Release Prevention (40 CFR 68.130, Subpart F).         This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) fo Accidental Release Prevention (40 CFR 68.130, Subpart F).         This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOC Intermediate or Final VOC's (40 CFR 60.489).
Act Section 112 (40 CFR 61). This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) fo Accidental Release Prevention (40 CFR 68.130, Subpart F). This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOC Intermediate or Final VOC's (40 CFR 60.489).
Accidental Release Prevention (40 CFR 68.130, Subpart F). This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOC Intermediate or Final VOC's (40 CFR 60.489).
Intermediate or Final VOC's (40 CFR 60.489).
US State Regulations
Pennsylvania Right To Know : Alkenes, C20-24 α 93924-10-8 1-Eicosene - 3452-07-1
1-Docosene - 1599-67-3 1-Tetracosene - 10192-32-2
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sion 1.11	Revision Date 2022-12
California Prop. 65 Components	: This product, as shipped, does not contain any carcinogens or reproductive toxins presently known by the State of California to cause cancer or reproductive toxicity at a level of exposure subject to the requirements of California Proposition 65.
Notification status Europe REACH United States of America (US TSCA Canada DSL Australia AICS New Zealand NZIoC	<ul> <li>This product is in full compliance according to REACH regulation 1907/2006/EC.</li> <li>SA) On or in compliance with the active portion of the TSCA inventory</li> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> <li>This substance may be used as a component in a product covered by a group standard but it is not approved for use as a chemical in its own right</li> </ul>
Japan ENCS Korea KECI	<ul> <li>On the inventory, or in compliance with the inventory</li> <li>A substance(s) in this product was not registered, notified to be registered, or exempted from registration by QChem 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).</li> </ul>
Philippines PICCS China IECSC Taiwan TCSI	<ul> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> </ul>
CTION 16: Other information	
NFPA Classification	: Health Hazard: 0 Fire Hazard: 1 Reactivity Hazard: 0
Further information	
Legacy SDS Number	: QCHEM016
previous versions. The information in this SDS The information provided in t information and belief at the	e last version are highlighted in the margin. This version replaces all pertains only to the product as shipped. this Safety Data Sheet is correct to the best of our knowledge, date of its publication. The information given is designed only as a use, processing, storage, transportation, disposal and release and is other or quality and file the
	inty or quality specification. The information relates only to the

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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.

ł	Key or legend to abbreviations and a	cronyms use	d in the safety data sheet
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%	ATE	Acute toxicity estimate

SDS Number:100000068832