# C24-28

Chem

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According to Regulation (EC) No. 1907/2006, Regulation (EC) No. 2020/878

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

### 1.1 Product identifier

**Product information** 

Product Name : C24-28

### EC-No.Registration number

Chemical name	CAS-No. EC-No. Index No.	Legal Entity Registration number
Alpha Olefin Fraction,	93924-11-9	Qatar Chemical Company LTD (Q-Chem)
C24-28	300-203-7	01-2119485392-33-0001

### 1.2

### Relevant identified uses of the substance or mixture and uses advised against

Relevant Identified Uses Supported	:	Manufacture Use as an intermediate Formulation
		Other consumer uses

### 1.3

### Details of the supplier of the safety data sheet

Company :	Qatar Chemical Company LTD (QChem) Amwal 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
Local :	Muntajat B.V. (MBV OR) 19th Floor, Tower E, WTC The Hague Prinses Margrietplantsoen 78-A, 2595 BR The Hague, the Netherlands. Tel: +31702055630 Email: info.netherlands@muntajatbv.com
1.4 Emergency telephone:	
Health:	
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	866.442.9628 (North America)
	1.832.813.4984 (International)
	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 Creatia: +3851 3348 343 (24 hours/day, 7 days/week)
	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 (Giftlinjen): +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)
	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 Emography: Talanhana Number of Spanish Baisan Control + 24.04.562.04.20 (24
	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
SEC	CTION 2: Hazards identification
2.1	
	Classification of the substance or mixture
	REGULATION (EC) No 1272/2008
	Not a hazardous substance or mixture.
2.2	
	Labeling (REGULATION (EC) No 1272/2008)
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Not a hazardous substa	ance or mixture.			
2.3 Other hazards Results of PBT and vP assessment		This substance/mixture considered to be either toxic (PBT), or very pers (vPvB) at levels of 0.1%	persistent, bioac sistent and very	cumulative and
SECTION 3: Composition/i	nformation on	ingredients		
3.1 - 3.2 Substance or Mixture Synonyms		C28 Alpha Olefin Fraction 24-28	n	
Molecular formula Hazardous ingredient	: UVCE	3		
Chemical name	CAS-No. EC-No. Index No.	Classification (REGULATION (EC) No 1272/2008)	Concentration [wt%]	Specific Conc. Limits, M-factors and ATEs
Alpha Olefin Fraction, C24-28	93924-11-9 300-203-7		100	
Contains no hazardous	ingredients acco	ording to GHS. :		
SECTION 4: First aid meas	ures			
4.1 Description of first-aid	d measures			
General advice	: No ha	azards which require spe	ecial first aid mea	isures.
If inhaled		onscious, place in recov e. If symptoms persist, o		seek medical
In case of eye contact		ove contact lenses. Prote on persists, consult a sp		/e. If eye
If swallowed	bever	respiratory tract clear. I ages. Never give anythi n. If symptoms persist, c	ing by mouth to a	
4.2 Most important sympton Notes to physician	oms and effect	s, both acute and delay	yed	
Symptoms	: No da	ata available.		
		ata available.		
Risks 4.3 Indication of any imme			reatment neede	d
	ediate medical		reatment neede	d

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SEC	CTION 5: Firefighting measur	res	
	Flash point	:	218°C (424°F) Method: PMCC
	Autoignition temperature	:	249°C (480°F)
5.1	Extinguishing media		
	Suitable extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
5.2			
	<b>Special hazards arising from</b> Specific hazards during fire fighting		he substance or mixture Do not use a solid water stream as it may scatter and spread fire. Cool closed containers exposed to fire with water spray.
5.3	Advice for firefighters Special protective equipment for fire-fighters	:	Wear self-contained breathing apparatus for firefighting if necessary.
	Further information	:	Standard procedure for chemical fires. Use extinguishing 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.
SEC	CTION 6: Accidental release	mea	asures
SE0			asures ve equipment and emergency procedures
6.1		ecti	
	Personal precautions, prote	ecti :	ve equipment and emergency procedures
6.1	Personal precautions, prote Personal precautions	ecti :	ve equipment and emergency procedures
6.1	Personal precautions, prote Personal precautions Environmental precautions	ecti :	<b>ve equipment and emergency procedures</b> Avoid dust formation. No special environmental precautions required.
6.1	Personal precautions, prote Personal precautions Environmental precautions Environmental precautions Methods and materials for o	ecti : : con	ve equipment and emergency procedures Avoid dust formation. No special environmental precautions required. Itainment and cleaning up Pick up and arrange disposal without creating dust. Sweep up
6.1 6.2 6.3	Personal precautions, prote Personal precautions Environmental precautions Environmental precautions Methods and materials for of Methods for cleaning up	ecti : : con	ve equipment and emergency procedures Avoid dust formation. No special environmental precautions required. Itainment and cleaning up Pick up and arrange disposal without creating dust. Sweep up
6.1 6.2 6.3	Personal precautions, prote Personal precautions Environmental precautions Environmental precautions Methods and materials for of Methods for cleaning up Reference to other sections Reference to other sections A quantitative risk assessment	ecti : : con : S	ve equipment and emergency procedures Avoid dust formation. No special environmental precautions required. Atainment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
6.1 6.2 6.4	Personal precautions, prote Personal precautions Environmental precautions Environmental precautions Methods and materials for of Methods for cleaning up Reference to other sections Reference to other sections A quantitative risk assessment	ecti : : : : : : : : : : : : : : : : : : :	<ul> <li>ve equipment and emergency procedures</li> <li>Avoid dust formation.</li> <li>No special environmental precautions required.</li> <li>ntainment and cleaning up</li> <li>Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.</li> <li>For personal protection see section 8. For disposal considerations see section 13.</li> <li>anot required for the environment.</li> </ul>
6.1 6.2 6.4	Personal precautions, prote Personal precautions Environmental precautions Environmental precautions Methods and materials for of Methods for cleaning up Reference to other sections Reference to other sections A quantitative risk assessment A quantitative risk assessment	ecti : : con : : : : : : : : : : : : : : : : : : :	<ul> <li>ve equipment and emergency procedures</li> <li>Avoid dust formation.</li> <li>No special environmental precautions required.</li> <li>ntainment and cleaning up</li> <li>Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.</li> <li>For personal protection see section 8. For disposal considerations see section 13.</li> <li>anot required for the environment.</li> </ul>

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	Handling		
	Advice on safe handling	:	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
	Advice on protection against fire and explosion	:	Provide appropriate exhaust ventilation at places where dust is formed.
7.2	Conditions for safe storage	e, ir	cluding any incompatibilities
	Storage		
	Requirements for storage areas and containers	:	Electrical installations / working materials must comply with the technological safety standards.
	Advice on common storage	:	No materials to be especially mentioned.
SEC	CTION 8: Exposure controls/	per	sonal protection
	·		•
8.1			
	Control parameters		
	PNEC	:	Fresh water Value: 0,001 mg/l
	PNEC	:	Marine water Value: 0,001 mg/l
8.2	Exposure controls Engineering measures		
	Consider the potential hazard activities, and other substance personal protective equipmer exposure to harmful levels of recommended. The user sho	ds c es nt. this ould	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 preven 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 equipm	nen	t
	Respiratory protection	:	If ventilation or other engineering controls are not adequate to

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 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.

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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:. Lightweight protective clothing.
Hygiene measures	: General industrial hygiene practice.
	ent is not required for the environment. ent is not required for human health.
SECTION 9: Physical and chen	nical properties
9.1 Information on basic phys	sical and chemical properties
Appearance	
Form Physical state Color Odor	: Wax., solid : solid : White : no odor
Safety data	
Flash point	: 218°C (424°F) Method: PMCC
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Oxidizing properties	: no
Autoignition temperature	: 249°C (480°F)
Molecular formula	: UVCB
Molecular weight	: Varies
рН	: Not applicable
Melting point/range	: 63°C (145°F) Method: ASTM D-87
Boiling point/boiling range	: 390-430°C (734-806°F)
Vapor pressure	: < 0,01 kPa
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	at 65°C (149°F)
Relative density	: 0,82 at 15,6 °C (60,1 °F)
Density	: 821 kg/m3 at 15°C (59°F)
	799 kg/m3 at 50°C (122°F)
Water solubility	: Soluble in hydrocarbon solvents; insoluble in water.
Partition coefficient: n-	: No data available
octanol/water Viscosity, kinematic	: 2,5 cSt at 98,9°C (210,0°F)
Relative vapor density	: 0,82 at 15,6°C (60,1°F)
Evaporation rate	: Not applicable
SECTION 10: Stability and rea	ctivity
10.1	
Reactivity	: Stable at normal ambient temperature and pressure.
10.2	
Chemical stability	: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
10.3	
Possibility of hazardous r	reactions
Hazardous reactions	: Further information: Stable under recommended storage conditions., No hazards to be specially mentioned.
10.4 Conditions to avoid	: No data available.
10.5 Materials to avoid 10.6	: No data available.
Other data	: No decomposition if stored and applied as directed.
SECTION 11: Toxicological inf	formation
11.1 Information on toxicologi	
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Acute oral toxicity	
Alpha Olefin Fraction, C24- 28	<ul> <li>LD50: &gt;2020 mg/kg Species: Rat Information given is based on data obtained from similar substances.</li> </ul>
Acute inhalation toxicity	
Alpha Olefin Fraction, C24- 28	: Not classified Based on data from similar materials
Acute dermal toxicity	
Alpha Olefin Fraction, C24- 28	<ul> <li>LD50: &gt; 2020 mg/kg</li> <li>Species: Rabbit</li> <li>Method: OECD Test Guideline 402</li> <li>Information given is based on data obtained from similar substances.</li> </ul>
Skin irritation	
Alpha Olefin Fraction, C24- 28	: No skin irritation Information given is based on data obtained from similar substances.
<b>Eye irritation</b> Alpha Olefin Fraction, C24- 28	: No eye irritation Information given is based on data obtained from similar substances.
Sensitization	
Alpha Olefin Fraction, C24- 28	: Did not cause sensitization on laboratory animals. Information given is based on data obtained from similar substances.
Repeated dose toxicity	
Alpha Olefin Fraction, C24- 28	: Species: Rat, Male and female Sex: Male and female Application Route: oral gavage Dose: 100, 500, 1000 mg/kg/day Exposure time: 13 weeks Number of exposures: 7 d/wk NOEL: 1000 mg/kg bw/day
	Species: Rat, Male and female Sex: Male and female Application Route: Inhalation Dose: 300, 1000, 3000 ppm Exposure time: 13 weeks Number of exposures: 6 hrs/d, 5 d/wk NOEL: 3000 ppm
Genotoxicity in vitro	
Alpha Olefin Fraction, C24-	: Test Type: E. Coli bacterial reverse mutation assay
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28	Metabolic activation: with and without metabolic activation Method: Mutagenicity (Escherichia coli - reverse mutation assay) Result: negative
	Test Type: E. Coli bacterial reverse mutation assay Metabolic activation: with and without metabolic activation Method: Mutagenicity (Escherichia coli - reverse mutation assay) Result: negative
	Test Type: Mammalian cell gene mutation assay Metabolic activation: with and without metabolic activation Method: OECD Guideline 476 Result: negative
	Test Type: Mouse lymphoma assay Metabolic activation: with and without metabolic activation Method: OECD Guideline 476 Result: negative
	Test Type: Chromosome aberration test in vitro Method: OECD Guideline 473 Result: negative
	Test Type: Chromosome aberration test in vitro Method: OECD Guideline 473 Result: negative
Genotoxicity in vivo	
Alpha Olefin Fraction, C24- 28	: Test Type: Mouse micronucleus assay Species: Mouse Dose: 500, 1000, 2000 mg/kg Method: Mutagenicity (micronucleus test) Result: negative
	Test Type: Mouse micronucleus assay Species: Mouse Dose: 1000, 10000, 25000 ppm Method: Mutagenicity (micronucleus test) Result: negative
	Test Type: Mouse micronucleus assay Dose: 1000, 10000, 25000 ppm Method: Mutagenicity (micronucleus test) Result: negative
Reproductive toxicity	
Alpha Olefin Fraction, C24- 28	: Species: Rat Sex: male and female Application Route: oral gavage Dose: 100, 500, 1000 mg/kg/day Number of exposures: Daily Test period: 41 to 55 days Method: OECD Guideline 421 NOAEL Parent: 1000 mg/kg/day NOAEL F1: 1000 mg/kg/day
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	Species: Rat Sex: male and female Application Route: oral gavage Dose: 100, 500, 1000 mg/kg/day Number of exposures: Daily Test period: 42- 51 days Method: OECD Guideline 422 NOAEL Parent: 1000 mg/kg/day NOAEL F1: 1000 mg/kg/day
CMR effects	
Alpha Olefin Fraction, C24- 28	<ul> <li>Carcinogenicity: Not available Mutagenicity: Weight of evidence does not support classification as a germ cell mutagen. Teratogenicity: Not available Reproductive toxicity: Weight of evidence does not support classification for reproductive toxicity</li> </ul>
1.2 Information on other hazard	ds
<b>C24-28</b> <b>Further information</b> Endocrine disrupting properties	<ul> <li>No data available.</li> <li>The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.</li> </ul>
ECTION 12: Ecological informa	ation
2.1 Toxicity	
Ecotoxicity effects Toxicity to fish	
Alpha Olefin Fraction, C24- 28	<ul> <li>LL50: &gt; 1000 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) Method: OECD Test Guideline 203 Information given is based on data obtained from similar substances.</li> </ul>
Toxicity to daphnia and oth	er aquatic invertebrates
Alpha Olefin Fraction, C24- 28	: EL100: 1000 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea)
	Method: OECD Test Guideline 202 Information given is based on data obtained from similar substances.

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Toxicity to algae	
Alpha Olefin Fraction, C24- 28	<ul> <li>EL50: &gt;1000 mg/l Exposure time: 72 h Species: Selenastrum capricornutum (algae) Method: OECD Test Guideline 201 Information given is based on data obtained from similar substances.</li> </ul>
12.2 Persistence and degradabil	ity
Biodegradability	
28	: This material is not expected to be readily biodegradable.
12.3 Bioaccumulative potential Elimination information (persis	stence and degradability)
Bioaccumulation	: This material is not expected to bioaccumulate.
12.4 Mobility in soil	
Mobility	: No data available
12.5 Results of PBT and vPvB as Results of PBT assessment	<ul> <li>Ssessment</li> <li>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.</li> </ul>
12.6 Endocrine disrupting prope	rties
Endocrine disrupting properties	: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
12.7 Other adverse effects	
Additional ecological information	: This material is not expected to be harmful to aquatic organisms.
	No data available
12.8 Additional Information	
Ecotoxicology Assessment	
Short-term (acute) aquatic hazard	: This material is not expected to be harmful to aquatic organisms.
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Long-term (chronic) aquatic : This material is not expected to be harmful to aquatic organisms.

### **SECTION 13: Disposal considerations**

### 13.1

### Waste treatment methods

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

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.

Contaminated packaging

: Empty containers should be taken to an approved waste handling site for recycling or disposal.

A quantitative risk assessment is not required for the environment. A quantitative risk assessment is not required for human health.

### **SECTION 14: Transport information**

#### 14.1 - 14.7

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)

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, C24-28) , 9, III

#### IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

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, C24-28) , 9, III (218°C)

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IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION) 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, 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, C24-28) , 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, C24-28) , 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, C24-28) , 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	
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	

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National legislation	
Commission Regulation (EU) 2	2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of of the Council on the Registration, Evaluation, Authorisation and CH)
Water hazard class (Germany)	: nwg not water endangering
5.2	
Major Accident Hazard Legislation	: ZEU_SEVES3 Update: Not applicable
Notification status Europe REACH Switzerland CH INV United States of America (USA TSCA Canada DSL Other AICS New Zealand NZIoC Japan ENCS Korea KECI Philippines PICCS China IECSC Taiwan TCSI	<ul> <li>This product is in full compliance according to REACH regulation 1907/2006/EC.</li> <li>On the inventory, or in compliance with the inventory</li> <li>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>Not 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> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> <li>Not 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> <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> <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> <li>On the inventory, or in compliance with the inventory</li> </ul>
ECTION 16: Other information	
NFPA Classification	: Health Hazard: 0 Fire Hazard: 1 Reactivity Hazard: 0
Further information	
Legacy SDS Number	CHEM017
Significant changes since the la previous versions.	ast version are highlighted in the margin. This version replaces all
The information in this SDS pertains only to the product as shipped.	
information and belief at the da guidance for safe handling, use not to be considered a warrant	s Safety Data Sheet is correct to the best of our knowledge, the of its publication. The information given is designed only as a e, processing, storage, transportation, disposal and release and is y or quality specification. The information relates only to the ind may not be valid for such material used in combination with any ss, unless specified in the text.
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	Key or legend to abbreviations and a	cronyms used	d in the safety data sheet
ACGIH	American Conference of	LD50	Lethal Dose 50%
	Government Industrial Hygienists		
AIIC	Australian Inventory of Industrial	LOAEL	Lowest Observed Adverse Effect
	Chemicals		Level
DSL	Canada, Domestic Substances	NFPA	National Fire Protection Agency
	List		
NDSL	Canada, Non-Domestic	NIOSH	National Institute for Occupational
	Substances List		Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of
F050		NOAE	Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect
5050	Effective Operation 500/	NOFO	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	PEL	Permissible Exposure Limit
EUSCA	Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing	PICCS	Philippines Inventory of
LINLOS	Chemical Substances	11000	Commercial Chemical Substances
MAK	Germany Maximum Concentration	PRNT	Presumed Not Toxic
	Values		
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	TLV	Threshold Limit Value
	on Cancer		
IECSC	Inventory of Existing Chemical	TWA	Time Weighted Average
	Substances in China		
ENCS	Japan, Inventory of Existing and	TSCA	Toxic Substance Control Act
	New Chemical Substances		
KECI	Korea, Existing Chemical	UVCB	Unknown or Variable Composition,
	Inventory		Complex Reaction Products, and
			Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%	ATE	
L030	Lethal Concentration 50%	AIE	Acute toxicity estimate

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### Annex

1. Short title of Exposure Scenario:	Manufacture
Sector of use Process category	<ul> <li>SU3: Industrial Manufacturing (all)</li> <li>PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional controlled exposure</li> <li>PROC3: Use in closed batch process (synthesis or formulation)</li> <li>PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises</li> <li>PROC8a: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non- dedicated facilities</li> <li>PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities</li> <li>PROC15: Use as laboratory reagent</li> </ul>
Environmental release category	: <b>ERC1, ERC4:</b> Manufacture of substances, Industrial use of processing aids in processes and products, not becoming part of articles

## 3. Exposure estimation and reference to its source

Remarks: Not applicable

# 4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Not applicable

1. Short title of Exposure Scenario:	Use as an intermediate
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Sector of use Process category	<ul> <li>SU3: Industrial Manufacturing (all)</li> <li>PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional controlled exposure</li> <li>PROC3: Use in closed batch process (synthesis or formulation)</li> <li>PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises</li> <li>PROC8a: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non- dedicated facilities</li> <li>PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities</li> <li>PROC15: Use as laboratory reagent</li> <li>ERC6a: Industrial use resulting in manufacture of another exherting (use of intermediated)</li> </ul>
Environmental release category	substance (use of intermediates)
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#### 3. Exposure estimation and reference to its source

Remarks: Not applicable

### 4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Not applicable

1. Short title of Exposure Scenario: Formulation

Sector of use Process category	<ul> <li>SU3: Industrial Manufacturing (all)</li> <li>PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional controlled exposure</li> <li>PROC3: Use in closed batch process (synthesis or formulation)</li> <li>PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises</li> <li>PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact)</li> <li>PROC8a: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non- dedicated facilities</li> <li>PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities</li> <li>PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)</li> <li>PROC14: Production of preparations or articles by tabletting, compression, extrusion, pelletization</li> <li>PROC15: Use as laboratory reagent</li> </ul>
Environmental release category	: ERC2: Formulation of preparations

### 3. Exposure estimation and reference to its source

Remarks: Not applicable

### 4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Not applicable 1. Short title of Exposure Scenario: <b>Other consumer uses</b>	
Sector of use	: <b>SU 21:</b> Consumer uses: Private households (= general public = consumers)
Product category	: <b>PC31:</b> Polishes and wax blends
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Environmental release category	: <b>ERC8a, ERC8d:</b> Wide dispersive indoor use of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems

### 3. Exposure estimation and reference to its source

Remarks: Not applicable

# 4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Not applicable

SDS Number:100000067880