

Version 2.4 Revision Date 2016-05-31

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

Product information

Product Name : AlphaPlus® C20-24

Material : 1037057, 1083291, 1059406, 1059404, 1036985, 1037058

EC-No.Registration number

Chemical name	CAS-No. EC-No.	Legal Entity Registration number
	Index No.	
Alkenes, C20-24 α-	93924-10-8 300-202-1	Chevron Phillips Chemical Company LP 01-2119485290-39-0000

Relevant Identified Uses

Supported

Manufacture

Distribution

Use as an intermediate

Formulation

Use in Oil and Gas field drilling and production operations -

Industrial

Use in Oil and Gas field drilling and production operations -

Professional

Lubricants - Industrial Lubricants - Professional Lubricants - Consumer

Metal working fluids / rolling oils - Industrial Metal working fluids / rolling oils - Professional

Use as a fuel - industrial
Use as a fuel - professional
Use as a fuel - consumer
Functional Fluids - Industrial
Functional Fluids - Professional
Functional Fluids - Consumer

Use in polymer production – industrial

Other consumer uses

Company : Chevron Phillips Chemical Company LP

Normal Alpha Olefins (NAO) 10001 Six Pines Drive The Woodlands, TX 77380

Local : Chevron Phillips Chemicals International N.V.

Airport Plaza (Stockholm Building)

Leonardo Da Vincilaan 19

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1831 Diegem Belgium

SDS Requests: (800) 852-5530 Technical Information: (832) 813-4862 Responsible Party: Product Safety Group

Email:sds@cpchem.com

Emergency telephone:

Health:

866.442.9628 (North America) 1.832.813.4984 (International)

Transport:

CHEMTREC 800.424.9300 or 703.527.3887(int'l)

Asia: +800 CHEMCALL (+800 2436 2255) China:+86-21-22157316 EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600

Responsible Department : Product Safety and Toxicology Group

E-mail address : SDS@CPChem.com Website : www.CPChem.com

SECTION 2: Hazards identification

Classification of the substance or mixture REGULATION (EC) No 1272/2008

Aspiration hazard, Category 1 H304:

May be fatal if swallowed and enters airways.

Label elements

Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms :

Signal Word : Danger

Hazard Statements : H304 May be fatal if swallowed and enters

airways.

Precautionary Statements : Response:

P301 + P310 IF SWALLOWED: Immediately call a

POISON CENTER/doctor. Do NOT induce vomiting.

P331 Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an

approved waste disposal plant.

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Hazardous ingredients which must be listed on the label:

• 93924-10-8 Alkenes, C20-24 α-

SECTION 3: Composition/information on ingredients

Synonyms : NAO 20-24

C20-24 Alpha Olefin Fraction

Molecular formula : UVCB

Mixtures

Hazardous ingredients

Chemical name	CAS-No. EC-No. Index No.	Classification (REGULATION (EC) No 1272/2008)	Concentration [wt%]
Alkenes, C20-24 α-	93924-10-8 300-202-1	Asp. Tox. 1; H304	100

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

General advice : Move out of dangerous area. Show this material safety data

sheet to the doctor in attendance. Symptoms of poisoning may

appear several hours later. Do not leave the victim

unattended.

If inhaled : If unconscious place in recovery position and seek medical

advice. If symptoms persist, call a physician.

In case of eye contact : Flush eyes with water as a precaution. Remove contact

lenses. Protect unharmed eye. Keep eye wide open while

rinsing. If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear. Do NOT induce vomiting. Do not

give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a

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physician. Take victim immediately to hospital.

SECTION 5: Firefighting measures

Flash point : 183 °C (361 °F)

Method: PMCC

Autoignition temperature : 239 °C (462 °F)

Unsuitable extinguishing

media

: High volume water jet.

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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.

Hazardous decomposition

products

: Carbon oxides.

SECTION 6: Accidental release measures

Personal precautions : Use personal protective equipment. Avoid dust formation.

Avoid breathing dust. Ensure adequate ventilation.

Environmental precautions : Prevent product from entering drains. Prevent further leakage

or spillage if safe to do so. If the product contaminates rivers

and lakes or drains inform respective authorities.

Methods for cleaning up : Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

Handling

Advice on safe handling : Avoid formation of respirable particles. Do not breathe

vapors/dust. 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. Observe label precautions. Electrical installations / working

materials must comply with the technological safety standards.

SECTION 8: Exposure controls/personal protection

PNEC : Fresh water

Value: 0,001 mg/l

PNEC : Marine water

Value: 0,001 mg/l

Engineering measures

Adequate ventilation to control airborned concentrations below the exposure guidelines/limits.

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Personal protective equipment

Respiratory protection : Wear a supplied-air NIOSH approved respirator unless

ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure. Wear a NIOSH approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur, such as:. Air-Purifying Respirator for Dusts and Mists / P100. Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators

Hand protection : The suitability for a specific workplace should be discussed

may not provide adequate protection.

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. Tightly fitting safety goggles.

Skin and body protection : Choose body protection in relation to its type, to the

concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate: Protective suit.

Hygiene measures : When using do not eat or drink. When using do not smoke.

Wash hands before breaks and at the end of workday.

For additional details, see the Exposure Scenario in the Annex portion

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Form : Wax, Solid
Physical state : Solid
Color : 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

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Molecular weight : Varies

pH : Not applicable

Melting point/range : 35 °C (95 °F)

Pour point No data available

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

SECTION 10: Stability and reactivity

Chemical stability : This material is considered stable under normal ambient and

anticipated storage and handling conditions of temperature

and pressure.

Possibility of hazardous reactions

Conditions to avoid : No data available.

Materials to avoid : May react with oxygen and strong oxidizing agents, such as

chlorates, nitrates, peroxides, etc.

Hazardous decomposition

products

: Carbon oxides

Other data : No decomposition if stored and applied as directed.

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SECTION 11: Toxicological information

Acute oral toxicity

Alkenes, C20-24 α - : LD50 Oral: > 5000 mg/kg bw

Species: Rat

Sex: male and female

Method: OECD Test Guideline 423

Acute inhalation toxicity

Alkenes, C20-24 α- : 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.

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Skin irritation : No skin irritation.

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Eye irritation : Vapors may cause irritation to the eyes, respiratory system

and the skin.

Sensitization

Alkenes, C20-24 α- : Did not cause sensitization on laboratory animals.

Repeated dose toxicity

Alkenes, C20-24 α - : 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

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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

Reproductive toxicity

Alkenes, C20-24 α- : 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

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

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Aspiration toxicity : Substances known to cause human aspiration toxicity hazards

or to be regarded as if they cause human aspiration toxicity

hazard.

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

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Further information : Solvents may degrease the skin.

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SECTION 12: Ecological information

Toxicity to fish

Alkenes, C20-24 α - : LL50: > 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.

Toxicity to daphnia and other aquatic invertebrates

Alkenes, C20-24 α - : EL50: 1,000 mg/l

Exposure time: 48 h

Species: Daphnia magna (Water flea) static test Method: OECD Test Guideline 202

Toxicity to algae

Alkenes, C20-24 α - : EL50: > 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.

Bioaccumulation

Alkenes, C20-24 α - : Bioconcentration factor (BCF): < 436,5

This material is not expected to bioaccumulate.

Biodegradability

Alkenes, C20-24 α : This material is expected to be readily biodegradable.

Information given is based on data obtained from similar

substances.

Ecotoxicology Assessment

Results of PBT assessment

Alkenes, C20-24 α- : Non-classified PBT substance, Non-classified vPvB substance

Additional ecological

This material is not expected to be harmful to aquatic organisms.

information

SECTION 13: Disposal considerations

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

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

Product : 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.

For additional details, see the Exposure Scenario in the Annex portion

SECTION 14: Transport information

The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition).

Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the SDS and the bill of lading.

US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)

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 TRANSPORTATION BY THIS AGENCY.

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

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

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

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

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

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

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.

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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

National legislation

Chemical Safety Assessment

Ingredients : Alkenes, C20-24 α- A Chemical Safety Assessment 300-202-1

has been carried out for this

substance.

Major Accident Hazard: 96/82/ECUpdate: 2003LegislationDirective 96/82/EC does not apply

Water contaminating class : nwg not water endangering

(Germany)

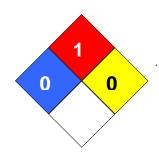
Notification status

Europe REACH On the inventory, or in compliance with the inventory United States of America TSCA On the inventory, or in compliance with the inventory Canada DSL On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory Australia AICS New Zealand NZIoC On the inventory, or in compliance with the inventory Japan ENCS On the inventory, or in compliance with the inventory Korea KECI On the inventory, or in compliance with the inventory Philippines PICCS On the inventory, or in compliance with the inventory China IECSC On the inventory, or in compliance with the inventory

SECTION 16: Other information

NFPA Classification : Health Hazard: 0

Fire Hazard: 1
Reactivity Hazard: 0



Further information

Legacy SDS Number : PE0025

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.

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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.

	Cey or legend to abbreviations and a	cronyms used	
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%		

Full text of H-Statements referred to under sections 2 and 3.

H304 May be fatal if swallowed and enters airways.

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Annex

1. Short title of Exposure Scenario: Manufacture

Main User Groups : SU 3: Industrial uses: Uses of substances as such or in

preparations at industrial sites

Sector of use : SU3, SU8, SU9: Industrial Manufacturing (all), Manufacture of

bulk, large scale chemicals (including petroleum products),

Manufacture of fine chemicals

Process category : **PROC1:** Use in closed process, no likelihood of exposure

PROC2: Use in closed, continuous process with occasional

controlled exposure

PROC3: Use in closed batch process (synthesis or

formulation)

PROC4: Use in batch and other process (synthesis) where

opportunity for exposure arises

PROC8a: Transfer of substance or preparation

(charging/discharging) from/to vessels/large containers at

non-dedicated facilities

PROC8b: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated

facilities

PROC15: Use as laboratory reagent

Environmental release category : ERC1, ERC4: Manufacture of substances, Industrial use of

processing aids in processes and products, not becoming part

of articles

Further information

Manufacture of the substance or use as a process chemical or

extraction agent. Includes recycling/ recovery, material

transfers, storage, maintenance and loading (including marine vessel/barge, road/rail car and bulk container), sampling and

associated laboratory activities

2.1 Contributing scenario controlling environmental exposure for:ERC1, ERC4: Manufacture of substances, Industrial use of processing aids in processes and products, not becoming part of articles

Technical conditions and measures / Organizational measures

Remarks : Not applicable

2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15: Use in closed process, no likelihood of exposure, Use in closed, continuous process with occasional controlled exposure, Use in closed batch process (synthesis or formulation), Use in batch and other process (synthesis) where opportunity for exposure arises, Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities,

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Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities, Use as laboratory reagent

Amount used

Remarks : Not applicable

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: Distribution

Main User Groups : SU 3: Industrial uses: Uses of substances as such or in

preparations at industrial sites

Sector of use : SU3: Industrial Manufacturing (all)

Process category : **PROC1:** Use in closed process, no likelihood of exposure

PROC2: Use in closed, continuous process with occasional

controlled exposure

PROC3: Use in closed batch process (synthesis or

formulation)

PROC4: Use in batch and other process (synthesis) where

opportunity for exposure arises

PROC8a: Transfer of substance or preparation

(charging/discharging) from/to vessels/large containers at

non-dedicated facilities

PROC8b: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated

facilities

: Transfer of substance or preparation into small containers

(dedicated filling line, including weighing) **PROC15:** Use as laboratory reagent

Environmental release category : ERC1, ERC2, ERC3, ERC4, ERC5, ERC6a, ERC6b, ERC6c,

ERC6d, ERC7: Manufacture of substances, Formulation of preparations, Formulation in materials, Industrial use of processing aids in processes and products, not becoming part of articles, Industrial use resulting in inclusion into or onto a matrix, Industrial use resulting in manufacture of another substance (use of intermediates), Industrial use of reactive processing aids, Industrial use of monomers for manufacture of thermoplastics, Industrial use of process regulators for polymerisation processes in production of resins, rubbers, polymers, Industrial use of substances in closed systems

Further information

Loading (including marine vessel/barge, rail/road car and IBC loading) and repacking (including drums and small packs) of substance, including its sampling, storage, unloading

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distribution and associated laboratory activities.

2.1 Contributing scenario controlling environmental exposure for:ERC1, ERC2, ERC3, ERC4, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7: Manufacture of substances, Formulation of preparations, Formulation in materials, Industrial use of processing aids in processes and products, not becoming part of articles, Industrial use resulting in inclusion into or onto a matrix, Industrial use resulting in manufacture of another substance (use of intermediates), Industrial use of reactive processing aids, Industrial use of monomers for manufacture of thermoplastics, Industrial use of process regulators for polymerisation processes in production of resins, rubbers, polymers, Industrial use of substances in closed systems

Technical conditions and measures / Organizational measures

Remarks : Not applicable

2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b,, PROC15: Use in closed process, no likelihood of exposure, Use in closed, continuous process with occasional controlled exposure, Use in closed batch process (synthesis or formulation), Use in batch and other process (synthesis) where opportunity for exposure arises, Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities, Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities, Transfer of substance or preparation into small containers (dedicated filling line, including weighing), Use as laboratory reagent

Amount used

Remarks : Not applicable

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

Main User Groups : SU 3: Industrial uses: Uses of substances as such or in

preparations at industrial sites

Sector of use : Su3, Su8, Su9: Industrial Manufacturing (all), Manufacture of

bulk, large scale chemicals (including petroleum products),

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SAFETY DATA SHEET AlphaPlus® C20-24 Version 2.4 Revision Date 2016-05-31 Manufacture of fine chemicals PROC1: Use in closed process, no likelihood of exposure Process category PROC2: Use in closed, continuous process with occasional controlled exposure PROC3: Use in closed batch process (synthesis or formulation) PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated PROC15: Use as laboratory reagent Environmental release category : **ERC6a:** Industrial use resulting in manufacture of another substance (use of intermediates) Further information Use of substance as an intermediate (not related to Strictly Controlled Conditions). Includes recycling/ recovery, material transfers, storage, sampling, associated laboratory activities, maintenance and loading (including marine vessel/barge, road/rail car and bulk container). 2.1 Contributing scenario controlling environmental exposure for: ERC6a: Industrial use resulting in manufacture of another substance (use of intermediates) Technical conditions and measures / Organizational measures : Not applicable Remarks 2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15: Use in closed process, no likelihood of exposure, Use in closed, continuous process with occasional controlled exposure, Use in closed batch process (synthesis or formulation), Use in batch and other process (synthesis) where opportunity for exposure arises, Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities, Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities, Use as laboratory reagent Amount used Remarks : Not applicable

3. Exposure estimation and reference to its source

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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

Main User Groups : SU 3: Industrial uses: Uses of substances as such or in

preparations at industrial sites

Sector of use : SU3, SU 10: Industrial Manufacturing (all), Formulation

[mixing] of preparations and/ or re-packaging (excluding

alloys)

Process category : PROC1: Use in closed process, no likelihood of exposure

PROC2: Use in closed, continuous process with occasional

controlled exposure

PROC3: Use in closed batch process (synthesis or

formulation)

PROC4: Use in batch and other process (synthesis) where

opportunity for exposure arises

: PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or

significant contact)

PROC8a: Transfer of substance or preparation

(charging/discharging) from/to vessels/large containers at

non-dedicated facilities

PROC8b: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated

facilities

: Transfer of substance or preparation into small containers

(dedicated filling line, including weighing)

PROC14: Production of mixtures or articles by tabletting, compression, extrusion, pelletization; Industrial setting;

PROC15: Use as laboratory reagent

Environmental release category : **ERC2**: Formulation of preparations

Further information

Formulation, packing and re-packing of the substance and its

mixtures in batch or continuous operations, including storage, materials transfers, mixing, tabletting, compression,

pelletisation, extrusion, large and small scale packing, sampling, maintenance and associated laboratory activities.

2.1 Contributing scenario controlling environmental exposure for:ERC2: Formulation of preparations

Technical conditions and measures / Organizational measures

Remarks : Not applicable

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2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4,, PROC8a, PROC8b,, PROC14, PROC15: Use in closed process, no likelihood of exposure, Use in closed, continuous process with occasional controlled exposure, Use in closed batch process (synthesis or formulation), Use in batch and other process (synthesis) where opportunity for exposure arises, PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact), Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities, Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities, Transfer of substance or preparation into small containers (dedicated filling line, including weighing), Production of mixtures or articles by tabletting, compression, extrusion, pelletization; Industrial setting;, Use as laboratory reagent

Amount used

Remarks : Not applicable

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 in Oil and Gas field drilling and production operations

- Industrial

Main User Groups : SU 3: Industrial uses: Uses of substances as such or in

preparations at industrial sites

Sector of use : SU3: Industrial Manufacturing (all)

Process category : **PROC1:** Use in closed process, no likelihood of exposure

PROC2: Use in closed, continuous process with occasional

controlled exposure

PROC3: Use in closed batch process (synthesis or

formulation)

PROC4: Use in batch and other process (synthesis) where

opportunity for exposure arises

PROC8a: Transfer of substance or preparation

(charging/discharging) from/to vessels/large containers at

non-dedicated facilities

PROC8b: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated

facilities

Environmental release category : ERC4: Industrial use of processing aids in processes and

products, not becoming part of articles

Further information

Oil field well drilling and production operations (including

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	drilling muds and well cleaning) including material transfers, on-site formulation, well head operations, shaker room activities and related maintenance.
	rolling environmental exposure for:ERC4: Industrial use of and products, not becoming part of articles
Technical conditions and measure Remarks	es / Organizational measures : Not applicable
PROC4, PROC8a, PROC8b: Use closed, continuous process wit process (synthesis or formulati opportunity for exposure arises (charging/discharging) from/to	colling worker exposure for: PROC1, PROC2, PROC3, e in closed process, no likelihood of exposure, Use in the occasional controlled exposure, Use in closed batch ion), Use in batch and other process (synthesis) where is, Transfer of substance or preparation vessels/large containers at non-dedicated facilities, ration (charging/ discharging) from/ to vessels/ large
Amount used Remarks	: Not applicable
3. Exposure estimation and refe	erence to its source
Remarks: Not applicable	
4. Guidance to Downstream Use by the Exposure Scenario	er to evaluate whether he works inside the boundaries set
Not applicable 1. Short title of Exposure Scenario: U — Professional	Jse in Oil and Gas field drilling and production operations
Main User Groups	: SU 22: Professional uses: Public domain (administration,

education, entertainment, services, craftsmen)

Sector of use : SU 22: Professional uses: Public domain (administration,

education, entertainment, services, craftsmen)
: PROC1: Use in closed process, no likelihood of exposure Process category

PROC2: Use in closed, continuous process with occasional

controlled exposure

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VOISION 2.4	PROC3: Use in closed batch process (synthesis or formulation) PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated facilities
Environmental release category	: ERC8d: Wide dispersive outdoor use of processing aids in open systems
Further information	:
	Oil field well drilling and production operations (including drilling muds and well cleaning) including material transfers, on-site formulation, well head operations, shaker room activities and related maintenance.
dispersive outdoor use of proce	
PROC4, PROC8a, PROC8b: Use closed, continuous process with process (synthesis or formulation opportunity for exposure arises (charging/discharging) from/to v	olling worker exposure for: PROC1, PROC2, PROC3, in closed process, no likelihood of exposure, Use in a occasional controlled exposure, Use in closed batch on), Use in batch and other process (synthesis) where a Transfer of substance or preparation ressels/large containers at non-dedicated facilities, ation (charging/ discharging) from/ to vessels/ large
Amount used Remarks	: Not applicable
Amount used Remarks 3. Exposure estimation and refe	

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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: Lubricants - Industrial

Main User Groups : SU 3: Industrial uses: Uses of substances as such or in

preparations at industrial sites

Sector of use : Su3: Industrial Manufacturing (all)

Process category : **PROC1:** Use in closed process, no likelihood of exposure

PROC2: Use in closed, continuous process with occasional

controlled exposure

PROC3: Use in closed batch process (synthesis or

formulation)

PROC4: Use in batch and other process (synthesis) where

opportunity for exposure arises **PROC7:** Industrial spraying

PROC8a: Transfer of substance or preparation

(charging/discharging) from/to vessels/large containers at

non-dedicated facilities

PROC8b: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated

facilities

: Transfer of substance or preparation into small containers

(dedicated filling line, including weighing) **PROC10:** Roller application or brushing

PROC13: Treatment of articles by dipping and pouring **PROC17:** Lubrication at high energy conditions and in partly

open process

PROC18: Greasing at high energy conditions

Environmental release category : **ERC4, ERC7:** Industrial use of processing aids in processes

and products, not becoming part of articles, Industrial use of

substances in closed systems

Further information :

Covers the use of formulated lubricants in closed and open

systems including transfer operations, operation of

machinery/engines and similar articles, reworking on reject articles, equipment maintenance and disposal of wastes.

2.1 Contributing scenario controlling environmental exposure for:ERC4, ERC7: Industrial use of processing aids in processes and products, not becoming part of articles, Industrial use of substances in closed systems

Technical conditions and measures / Organizational measures

Remarks : Not applicable

2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b,, PROC10, PROC13, PROC17, PROC18: Use in closed

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process, no likelihood of exposure, Use in closed, continuous process with occasional controlled exposure, Use in closed batch process (synthesis or formulation), Use in batch and other process (synthesis) where opportunity for exposure arises, Industrial spraying, Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities, Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities, Transfer of substance or preparation into small containers (dedicated filling line, including weighing), Roller application or brushing, Treatment of articles by dipping and pouring, Lubrication at high energy conditions and in partly open process, Greasing at high energy conditions

Amount used

Remarks : Not applicable

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: Lubricants - Professional

Main User Groups : SU 22: Professional uses: Public domain (administration,

education, entertainment, services, craftsmen)

Sector of use : SU 22: Professional uses: Public domain (administration,

education, entertainment, services, craftsmen)

Process category : **PROC1:** Use in closed process, no likelihood of exposure

PROC2: Use in closed, continuous process with occasional

controlled exposure

PROC3: Use in closed batch process (synthesis or

formulation)

PROC4: Use in batch and other process (synthesis) where

opportunity for exposure arises

PROC8a: Transfer of substance or preparation

(charging/discharging) from/to vessels/large containers at

non-dedicated facilities

PROC8b: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated

facilities

: Transfer of substance or preparation into small containers

(dedicated filling line, including weighing) **PROC10:** Roller application or brushing

PROC11: Non industrial spraying

PROC13: Treatment of articles by dipping and pouring **PROC17:** Lubrication at high energy conditions and in partly open process

PROC18: Greasing at high energy conditions

PROC20: Heat and pressure transfer fluids in dispersive,

professional use but closed systems

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Environmental release category :	ERC8a, ERC8d, ERC9a, ERC9b: Wide dispersive indoor use of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems, Wide dispersive indoor use of substances in closed systems, Wide dispersive outdoor use of substances in closed systems	
Further information :	Covers the use of formulated lubricants in closed and open systems including transfer operations, operation of engines and similar articles, reworking on reject articles, equipment maintenance and disposal of waste oil.	
2.1 Contributing scenario controlling environmental exposure for:ERC8a, ERC8d, ERC9a, ERC9b: Wide dispersive indoor use of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems, Wide dispersive indoor use of substances in closed systems, Wide dispersive outdoor use of substances in closed systems		
Technical conditions and measures / C Remarks :	Organizational measures Not applicable	
2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b,, PROC10, PROC11, PROC13, PROC17, PROC18, PROC20: Use in closed process, no likelihood of exposure, Use in closed, continuous process with occasional controlled exposure, Use in closed batch process (synthesis or formulation), Use in batch and other process (synthesis) where opportunity for exposure arises, Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities, Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities, Transfer of substance or preparation into small containers (dedicated filling line, including weighing), Roller application or brushing, Non industrial spraying, Treatment of articles by dipping and pouring, Lubrication at high energy conditions and in partly open process, Greasing at high energy conditions, Heat and pressure transfer fluids in dispersive, professional use but closed systems		
Amount used Remarks :	Not applicable	
3. Exposure estimation and referen	ce to its source	
Remarks: Not applicable		
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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: Lubricants - Consumer

Main User Groups : **SU 21:** Consumer uses: Private households (= general public

= consumers)

: **SU 21:** Consumer uses: Private households (= general public Sector of use

= consumers)

: PC1: Adhesives, sealants Product category

PC24: Lubricants, greases, release products

PC31: Polishes and wax blends

: ERC8a, ERC8d, ERC9a, ERC9b: Wide dispersive indoor use Environmental release category

> of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems, Wide dispersive indoor use of substances in closed systems. Wide dispersive

outdoor use of substances in closed systems

Further information

Covers the consumer use of formulated lubricants in closed and open systems including transfer operations, application,

operation of engines and similar articles, equipment

maintenance and disposal of waste oil.

2.1 Contributing scenario controlling environmental exposure for: ERC8a, ERC8d, ERC9a, ERC9b: Wide dispersive indoor use of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems, Wide dispersive indoor use of substances in closed systems, Wide dispersive outdoor use of substances in closed systems

Technical conditions and measures / Organizational measures

: Not applicable Remarks

2.2 Contributing scenario controlling consumer exposure for: PC1, PC24, PC31: Adhesives, sealants, Lubricants, greases, release products, Polishes and wax blends

Amount used

Remarks : Not applicable

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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: Metal working fluids / rolling oils - Industrial

Main User Groups : SU 3: Industrial uses: Uses of substances as such or in

preparations at industrial sites

Sector of use : SU3: Industrial Manufacturing (all)

Process category : **PROC1:** Use in closed process, no likelihood of exposure

PROC2: Use in closed, continuous process with occasional

controlled exposure

PROC3: Use in closed batch process (synthesis or

formulation)

PROC4: Use in batch and other process (synthesis) where

opportunity for exposure arises

: PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or

significant contact)

PROC7: Industrial spraying

PROC8a: Transfer of substance or preparation

(charging/discharging) from/to vessels/large containers at

non-dedicated facilities

PROC8b: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated

facilities

: Transfer of substance or preparation into small containers

(dedicated filling line, including weighing) **PROC10:** Roller application or brushing

PROC13: Treatment of articles by dipping and pouring

PROC17: Lubrication at high energy conditions and in partly

open process

Environmental release category : ERC4: Industrial use of processing aids in processes and

products, not becoming part of articles

Further information :

Covers the use in formulated MWFs/rolling oils including transfer operations, rolling and annealing activities, cutting/machining activities, automated and manual application of corrosion protections (including brushing, dipping and spraying), equipment maintenance, draining and

disposal of waste oils.

2.1 Contributing scenario controlling environmental exposure for:ERC4: Industrial use of processing aids in processes and products, not becoming part of articles

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Technical conditions and measures / Organizational measures

Remarks : Not applicable

2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b,, PROC10, PROC13, PROC17: Use in closed process, no likelihood of exposure, Use in closed, continuous process with occasional controlled exposure, Use in closed batch process (synthesis or formulation), Use in batch and other process (synthesis) where opportunity for exposure arises, PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact), Industrial spraying, Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities, Transfer of substance or preparation into small containers at dedicated facilities, Transfer of substance or preparation into small containers (dedicated filling line, including weighing), Roller application or brushing, Treatment of articles by dipping and pouring, Lubrication at high energy conditions and in partly open process

Amount used

Remarks : Not applicable

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: Metal working fluids / rolling oils - Professional

Main User Groups : SU 22: Professional uses: Public domain (administration,

education, entertainment, services, craftsmen)

Sector of use : SU 22: Professional uses: Public domain (administration,

education, entertainment, services, craftsmen)

Process category : **PROC1:** Use in closed process, no likelihood of exposure

PROC2: Use in closed, continuous process with occasional

controlled exposure

PROC3: Use in closed batch process (synthesis or

formulation)

PROC8a: Transfer of substance or preparation

(charging/discharging) from/to vessels/large containers at

non-dedicated facilities

PROC8b: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated

acilities

: Transfer of substance or preparation into small containers

(dedicated filling line, including weighing)

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	PROC10: Roller application or brushing PROC11: Non industrial spraying PROC13: Treatment of articles by dipping and pouring PROC17: Lubrication at high energy conditions and in partly open process	
Environmental release category :	ERC8a, ERC8d, ERC9a, ERC9b: Wide dispersive indoor use of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems, Wide dispersive indoor use of substances in closed systems, Wide dispersive outdoor use of substances in closed systems	
Further information :	Covers the use in formulated MWFs including transfer operations, open and contained cutting/machining activities, automated and manual application of corrosion protections, draining and working on contaminated/ reject articles, and disposal of waste oils.	
2.1 Contributing scenario controlling environmental exposure for:ERC8a, ERC8d, ERC9a, ERC9b: Wide dispersive indoor use of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems, Wide dispersive indoor use of substances in closed systems Technical conditions and measures / Organizational measures Remarks : Not applicable		
2.2 Contributing scenario controlli	ing worker exposure for: PROC1_PROC2_PROC3	
2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC8a, PROC8b,, PROC10, PROC11, PROC13, PROC17: Use in closed process, no ikelihood of exposure, Use in closed, continuous process with occasional controlled exposure, Use in closed batch process (synthesis or formulation), Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities, Transfer of substance or preparation (charging/ discharging) from/ to vessels/large containers at dedicated facilities, Transfer of substance or preparation into small containers (dedicated filling line, including weighing), Roller application or brushing, Non industrial spraying, Treatment of articles by dipping and pouring, Lubrication at high energy conditions and in partly open process		
Amount used Remarks	: Not applicable	
3. Exposure estimation and refere	nce to its source	
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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 a fuel - industrial

Main User Groups : SU 3: Industrial uses: Uses of substances as such or in

preparations at industrial sites

Sector of use : Su3: Industrial Manufacturing (all)

Process category : **PROC1:** Use in closed process, no likelihood of exposure

PROC2: Use in closed, continuous process with occasional

controlled exposure

PROC3: Use in closed batch process (synthesis or

formulation)

PROC8a: Transfer of substance or preparation

(charging/discharging) from/to vessels/large containers at

non-dedicated facilities

PROC8b: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated

facilities

PROC16: Using material as fuel sources, limited exposure to

unburned product to be expected

Environmental release category : ERC7: Industrial use of substances in closed systems

Further information :

Covers the use as a fuel (or fuel additive) and includes activities associated with its transfer, use, equipment

maintenance and handling of waste.

2.1 Contributing scenario controlling environmental exposure for:ERC7: Industrial use of substances in closed systems

Technical conditions and measures / Organizational measures

Remarks : Not applicable

2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC16: Use in closed process, no likelihood of exposure, Use in closed, continuous process with occasional controlled exposure, Use in closed batch process (synthesis or formulation), Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities, Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities, Using material as fuel sources, limited exposure to unburned product to be expected

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Amount used

Remarks : Not applicable

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 a fuel - professional

Main User Groups : SU 22: Professional uses: Public domain (administration,

education, entertainment, services, craftsmen)

Sector of use : SU 22: Professional uses: Public domain (administration,

education, entertainment, services, craftsmen)

Process category : **PROC1:** Use in closed process, no likelihood of exposure

PROC2: Use in closed, continuous process with occasional

controlled exposure

PROC3: Use in closed batch process (synthesis or

formulation)

PROC8a: Transfer of substance or preparation

(charging/discharging) from/to vessels/large containers at

non-dedicated facilities

PROC8b: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated

facilities

PROC16: Using material as fuel sources, limited exposure to

unburned product to be expected

Environmental release category : **ERC9a, ERC9b:** Wide dispersive indoor use of substances in

closed systems, Wide dispersive outdoor use of substances in

closed systems

Further information

Covers the use as a fuel (or fuel additive) and includes activities associated with its transfer, use, equipment

maintenance and handling of waste.

2.1 Contributing scenario controlling environmental exposure for:ERC9a, ERC9b: Wide dispersive indoor use of substances in closed systems, Wide dispersive outdoor use of substances in closed systems

Technical conditions and measures / Organizational measures

Remarks : Not applicable

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2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC16: Use in closed process, no likelihood of exposure, Use in closed, continuous process with occasional controlled exposure, Use in closed batch process (synthesis or formulation), Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities, Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities, Using material as fuel sources, limited exposure to unburned product to be expected

Amount used

Remarks : Not applicable

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 a fuel - consumer

Main User Groups : SU 21: Consumer uses: Private households (= general public

= consumers)

Sector of use : SU 21: Consumer uses: Private households (= general public

= consumers)

Product category : **PC13:** Fuels

Environmental release category : **ERC9a, ERC9b:** Wide dispersive indoor use of substances in

closed systems, Wide dispersive outdoor use of substances in

closed systems

Further information

Covers consumer uses in liquid fuels.

2.1 Contributing scenario controlling environmental exposure for:ERC9a, ERC9b: Wide dispersive indoor use of substances in closed systems, Wide dispersive outdoor use of substances in closed systems

Technical conditions and measures / Organizational measures

Remarks : Not applicable

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SAFETY DATA SHEET AlphaPlus® C20-24 Version 2.4 Revision Date 2016-05-31 2.2 Contributing scenario controlling consumer exposure for: PC13: Fuels Amount used Remarks : Not applicable 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: Functional Fluids - Industrial Main User Groups : SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites Sector of use : **SU3**, **SU 10**: Industrial Manufacturing (all), Formulation [mixing] of preparations and/ or re-packaging (excluding : **PROC1:** Use in closed process, no likelihood of exposure Process category PROC2: Use in closed, continuous process with occasional controlled exposure PROC3: Use in closed batch process (synthesis or formulation) PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities : Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

: ERC7: Industrial use of substances in closed systems

Environmental release category

Use as functional fluids e.g. cable oils, transfer oils, coolants, insulators, refrigerants, hydraulic fluids in industrial equipment including maintenance and related material transfers.

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Further information

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2.1 Contributing scenario substances in closed syst	controlling environmental exposure for:ERC7: Industrial use of tems
Technical conditions and me	easures / Organizational measures : Not applicable
Remarks	. Νοι αμφιισασίε
2.2.Contribution consula	controlling weather suppose for DDOC4 DDOC9
PROC4, PROC8a, PROC8b	controlling worker exposure for: PROC1, PROC2, PROC3, o,: Use in closed process, no likelihood of exposure, Use in
• • • • • • • • • • • • • • • • • • •	ss with occasional controlled exposure, Use in closed batch mulation), Use in batch and other process (synthesis) where
opportunity for exposure	arises, Transfer of substance or preparation
	om/to vessels/large containers at non-dedicated facilities, preparation (charging/ discharging) from/ to vessels/ large
containers at dedicated fa	cilities, Transfer of substance or preparation into small
containers (dedicated min	ng line, including weighing)
Amount used	
Remarks	: Not applicable
3. Exposure estimation an	d reference to its source
Remarks: Not applicable	•
4. Guidance to Downstrea by the Exposure Scenario	m User to evaluate whether he works inside the boundaries set
Not applicable	
1. Short title of Exposure Scen	ario: Functional Fluids - Professional
Main User Groups	: SU 22: Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Sector of use	: SU 22: Professional uses: Public domain (administration,
Process category	education, entertainment, services, craftsmen) : PROC1: Use in closed process, no likelihood of exposure
	PROC2: Use in closed, continuous process with occasional controlled exposure
	PROC3: Use in closed batch process (synthesis or formulation)
	PROC8a: Transfer of substance or preparation

: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

(charging/discharging) from/to vessels/large containers at

non-dedicated facilities

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	professional use but closed systems
Environmental release category	: ERC9a, ERC9b: Wide dispersive indoor use of substances in closed systems, Wide dispersive outdoor use of substances in closed systems
Further information	:
	Use as functional fluids e.g. cable oils, transfer oils, coolants, insulators, refrigerants, hydraulic fluids in professional equipment including maintenance and related material transfers.
	olling environmental exposure for:ERC9a, ERC9b: Wide nces in closed systems, Wide dispersive outdoor use of
Technical conditions and measures Remarks	s / Organizational measures : Not applicable
PROC8a,, PROC20: Use in close continuous process with occasio (synthesis or formulation), Transfrom/to vessels/large containers preparation into small containers	olling worker exposure for: PROC1, PROC2, PROC3, and process, no likelihood of exposure, Use in closed, onal controlled exposure, Use in closed batch process sfer of substance or preparation (charging/discharging) at non-dedicated facilities, Transfer of substance or s (dedicated filling line, including weighing), Heat and rsive, professional use but closed systems
·	
Amount used Remarks	: Not applicable
3. Exposure estimation and refer	rence to its source
Remarks: Not applicable	
4. Guidance to Downstream Use by the Exposure Scenario	r to evaluate whether he works inside the boundaries se
Not applicable 1. Short title of Exposure Scenario: F u	unctional Fluids - Consumer
Main User Groups	: SU 21: Consumer uses: Private households (= general public = consumers)

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Sector of use	: SU 21: Consumer uses: Private households (= general public = consumers)	
Product category	: PC16: Heat transfer fluids PC17: Hydraulic fluids	
Environmental release category	: ERC9a, ERC9b: Wide dispersive indoor use of substances in closed systems, Wide dispersive outdoor use of substances in closed systems	
Further information	: Use of sealed items containing functional fluids e.g. transfer oils, hydraulic fluids, refrigerants.	
	lling environmental exposure for:ERC9a, ERC9b: Wide ces in closed systems, Wide dispersive outdoor use of	
Technical conditions and measures Remarks	/ Organizational measures : Not applicable	
2.2 Contributing scenario control fluids, Hydraulic fluids	lling consumer exposure for: PC16, PC17: Heat transfer	
Amount used Remarks	: Not applicable	
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: Us	e in polymer production – industrial	
Main User Groups	: SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites	
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Sector of use : SU3, SU 10: Industrial Manufacturing (all), Formulation

[mixing] of preparations and/ or re-packaging (excluding

alloys)

Process category : **PROC1:** Use in closed process, no likelihood of exposure

PROC2: Use in closed, continuous process with occasional

controlled exposure

PROC3: Use in closed batch process (synthesis or

formulation)

PROC4: Use in batch and other process (synthesis) where

opportunity for exposure arises

: PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or

significant contact)

PROC6: Calendering operations

PROC8a: Transfer of substance or preparation

(charging/discharging) from/to vessels/large containers at

non-dedicated facilities

PROC8b: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated

facilities

PROC14: Production of mixtures or articles by tabletting, compression, extrusion, pelletization; Industrial setting:

PROC15: Use as laboratory reagent

Environmental release category : ERC4, ERC6c: Industrial use of processing aids in processes

and products, not becoming part of articles, Industrial use of

monomers for manufacture of thermoplastics

Further information

Manufacture of polymers from monomers in continuous and batch processes, include sparging, discharging, and reactor maintenance and immediate polymer product formation (i.e.

compounding, pelletisation, product off-gassing).

2.1 Contributing scenario controlling environmental exposure for:ERC4, ERC6c: Industrial use of processing aids in processes and products, not becoming part of articles, Industrial use of monomers for manufacture of thermoplastics

Technical conditions and measures / Organizational measures

Remarks : Not applicable

2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4,, PROC6, PROC8a, PROC8b, PROC14, PROC15: Use in closed process, no likelihood of exposure, Use in closed, continuous process with occasional controlled exposure, Use in closed batch process (synthesis or formulation), Use in batch and other process (synthesis) where opportunity for exposure arises, PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact), Calendering operations, Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities, Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large

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Alpha Pluc® C20, 24	SAFETY DATA SHEET
AlphaPlus® C20-24	
Version 2.4	Revision Date 2016-05-31
	s, Production of mixtures or articles by tabletting, ation; Industrial setting;, Use as laboratory reagent
Amount used Remarks	. Not applicable
Remarks	: Not applicable
3. Exposure estimation and refer	rence to its source
- LAPOSUITE ESTIMATION AND TELEP	refice to its source
Remarks: Not applicable	
4. Guidance to Downstream Use by the Exposure Scenario	r to evaluate whether he works inside the boundaries set
Not applicable	
Short title of Exposure Scenario: Of	ther consumer uses
Main User Groups	: SU 21: Consumer uses: Private households (= general public
·	= consumers)
Sector of use	: SU 21: Consumer uses: Private households (= general public = consumers)
Product category	: PC31: Polishes and wax blends
Environmental release category	: ERC8a, ERC8d: Wide dispersive indoor use of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems
	olling environmental exposure for:ERC8a, ERC8d: Wide sing aids in open systems, Wide dispersive outdoor use ems
Technical conditions and measures	-
Remarks	: Not applicable
O O Contribution accounts and a	Illian concurred cynogens for DOM: Ballakas and a
2.2 Contributing scenario contro	olling consumer exposure for: PC31: Polishes and wax
Amount wood	
Amount used Remarks	: Not applicable
SDS Number:100000068831	36/37

	SAFETY DATA SHEET
AlphaPlus® C20-24	
Version 2.4	Revision Date 2016-05-31
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 emplicable	
Not applicable	
SDS Number:100000068831	37/37