SAFETY DATA SHEET



AlphaPlus® 1-Decene

Version 1.7

Revision Date 2023-10-30

according to GB/T 16483 and GB/T 17519

Product Name : AlphaPlus® 1-Decene Material : 1128500, 1095875, 1068252, 1037000, 1015428, 1036999 Company : Chevron Phillips Chemical Company LP Normal Alpha Olefins (NAO) 10001 Six Pines Drive The Woodlands, TX 77380 Emergency telephone: Health: 866.442.9628 (North America) 1.832.813.4984 (International) Transport: CHEMTREC 800.424.9300 or 703.527.3887(int'l) Asia: CHEMWATCH (+612 9186 1132) China: 0532 8388 9090 Mexico CHEMTREC 101-800-681-9531 (24 hours) South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600 Argentia: +(54)-1159839431 EUROPE: BIG +32,14.584545 (phone) or +32.14583516 (telefax) Austria: VIZ +431 1406 43 43 (24 hours/day, 7 days/week) Belguari: +359 2 9154 233 Croatia: +3851 2348 342 (24 hours/day, 7 days/week) Bulgaria: +359 2 9154 233 Croatia: +3851 2348 342 (24 hours/day, 7 days/week) Bulgaria: +359 1234 342 (24 hours/day, 7 days/week) Elig +32.14.584545 (phone) or +32.14583516 (telefax) France: ORFILA number (INRS): +33 (0) 14 54 259 59 (24 hours/day, 7 days/week) Errance: 00301 2107793777 (24 hours/day, 7 days/week) Iceland: 543 2222 (24 hours/day, 7 days/week) Iceland: 543 2242 (24 hours/day, 7 days/week) Iceland: 543 2222 (24 hours/day, 7 days/week) Iceland: 543 2222 (24 hours/day, 7 days/week) Iceland: 543 2222 (24 hours/day, 7 days/week) Iceland: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Italy: BIG +32.14.584545 (phone) or +32.14583516 (telefax) </th <th></th> <th></th>		
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IphaPlus® 1-Decene ersion 1.7	Revision Date 2023-10-
Malta: +356 2395 2000 The Netherlands: NVIC: + Norway: 22 59 13 00 (24 H Poland: BIG +32.14.58454 Portugal: CIAV phone nun Romania: +40213183606 Slovakia: +421 2 5477 416 Slovenia: Phone number:	nours/day, 7 days/week) 45 (phone) or +32.14583516 (telefax) nber: +351 800 250 250 66 112 cy Telephone Number of Spanish Poison Centre: +34 91 562 04 20 (2-
Responsible Department E-mail address Website	 Product Safety and Toxicology Group SDS@CPChem.com www.CPChem.com
CTION 2: Hazards identificati	ion
Danger Form: liquid Physical stat Hazards	e: liquid Color : Clear, colorless : Flammable liquid and vapor. May be fatal if swallowed and enters airways. Very toxic to aquatic life. Very toxic to aquatic
Form: liquid Physical stat Hazards	-
Form: liquid Physical stat	: Flammable liquid and vapor. May be fatal if swallowed and enters airways. Very toxic to aquatic life. Very toxic to aquatic
Form: liquid Physical stat Hazards	 Flammable liquid and vapor. May be fatal if swallowed and enters airways. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Flammable liquids, Category 3 Aspiration hazard, Category 1 Short-term (acute) aquatic hazard, Category 1
Form: liquid Physical stat Hazards Classification	 Flammable liquid and vapor. May be fatal if swallowed and enters airways. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Flammable liquids, Category 3 Aspiration hazard, Category 1 Short-term (acute) aquatic hazard, Category 1
Form: liquid Physical stat Hazards Classification	 Flammable liquid and vapor. May be fatal if swallowed and enters airways. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Flammable liquids, Category 3 Aspiration hazard, Category 1 Short-term (acute) aquatic hazard, Category 1
Form: liquid Physical stat Hazards Classification Labeling Symbol(s)	 Flammable liquid and vapor. May be fatal if swallowed and enters airways. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Flammable liquids, Category 3 Aspiration hazard, Category 1 Short-term (acute) aquatic hazard, Category 1 Long-term (chronic) aquatic hazard, Category 1 Composition of the state of the st
Form: liquid Physical stat Hazards Classification Labeling Symbol(s) Signal Word	 Flammable liquid and vapor. May be fatal if swallowed and enters airways. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Flammable liquids, Category 3 Aspiration hazard, Category 1 Short-term (acute) aquatic hazard, Category 1 Long-term (chronic) aquatic hazard, Category 1 Competent (chronic) aquatic hazard, Category 1 Danger H226: Flammable liquid and vapor. H304: May be fatal if swallowed and enters airways.

bhaPlus® 1-Decent sion 1.7		sion Date 2023-10
	P241: Use explosion-proof electrical/ ventil	
	 P241: Use explosion-proof electrical/ ventil equipment. P242: Use only non-sparking tools. P243: Take precautionary measures again P273: Avoid release to the environment. P280: Wear protective gloves/ eye protective Response: P301+P310: IF SWALLOWED: Immediat CENTER/doctor. P303 + P361 + P353: IF ON SKIN (or hair immediately all contaminated clothing. Rinse shower. P331: Do NOT induce vomiting. P370+P378: In case of fire: Use dry sand alcohol-resistant foam to extinguish. P391: Collect spillage. Storage: P403 + P235: Store in a well-ventilated pla P405: Store locked up. Disposal: P501: Dispose of contents/ container to an disposal plant. 	st static discharge on/ face protection ely call a POISON): Take off e skin with water/ I, dry chemical or ace. Keep cool.
TION 3: Composition/info	ormation on ingredients	
Synonyms	 Decene-n-1 NAO 10 Decene-1 (C10) (C10 H20) C10H20 	
	: Decene-n-1 NAO 10 Decene-1 (C10) (C10 H20)	
Synonyms	: Decene-n-1 NAO 10 Decene-1 (C10) (C10 H20)	Concentration [wt%]
Synonyms Molecular formula Chemical name 1-Decene	: Decene-n-1 NAO 10 Decene-1 (C10) (C10 H20) : C10H20 CAS-No. / EINECS-No. 872-05-9	[wt%] 96 - 100
Synonyms Molecular formula Chemical name 1-Decene 2-Butyl-1-Hexene	: Decene-n-1 NAO 10 Decene-1 (C10) (C10 H20) : C10H20 CAS-No. / EINECS-No. 872-05-9 6795-79-5	[wt%] 96 - 100 1 - 5
Synonyms Molecular formula Chemical name 1-Decene	: Decene-n-1 NAO 10 Decene-1 (C10) (C10 H20) : C10H20 CAS-No. / EINECS-No. 872-05-9 6795-79-5	[wt%] 96 - 100
Synonyms Molecular formula Chemical name 1-Decene 2-Butyl-1-Hexene	: Decene-n-1 NAO 10 Decene-1 (C10) (C10 H20) : C10H20 : C10H20	[wt%] 96 - 100 1 - 5
Synonyms Molecular formula Chemical name 1-Decene 2-Butyl-1-Hexene 2-Ethyl-1-Octene	: Decene-n-1 NAO 10 Decene-1 (C10) (C10 H20) : C10H20 : C10H20	[wt%] 96 - 100 1 - 5 1 - 5 rial safety data ay produce a
Synonyms Molecular formula Chemical name 1-Decene 2-Butyl-1-Hexene 2-Ethyl-1-Octene TION 4: First aid measure	Decene-n-1 NAO 10 Decene-1 (C10) (C10 H20) CAS-No. / EINECS-No. 872-05-9 6795-79-5 51655-64-2 Ses Move out of dangerous area. Show this mater sheet to the doctor in attendance. Material material	[wt%] 96 - 100 1 - 5 1 - 5 rial safety data ay produce a ed or vomited.
Synonyms Molecular formula Chemical name 1-Decene 2-Butyl-1-Hexene 2-Ethyl-1-Octene TION 4: First aid measure General advice	Decene-n-1 NAO 10 Decene-1 (C10) (C10 H20) C10H20 CAS-No. / EINECS-No. 872-05-9 6795-79-5 51655-64-2 Move out of dangerous area. Show this mater sheet to the doctor in attendance. Material ma serious, potentially fatal pneumonia if swallows If unconscious, place in recovery position and	[wt%] 96 - 100 1 - 5 1 - 5 1 - 5 rial safety data ay produce a ed or vomited. seek medical
Synonyms Molecular formula Chemical name 1-Decene 2-Butyl-1-Hexene 2-Ethyl-1-Octene TION 4: First aid measure General advice If inhaled	Decene-n-1 NAO 10 Decene-1 (C10) (C10 H20) CAS-No. / EINECS-No. 872-05-9 6795-79-5 51655-64-2 S Move out of dangerous area. Show this mater sheet to the doctor in attendance. Material ma serious, potentially fatal pneumonia if swallow If unconscious, place in recovery position and advice. If symptoms persist, call a physician.	[wt%] 96 - 100 1 - 5 1 - 5 rial safety data ay produce a ed or vomited. seek medical remove clothes. ve contact e open while

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sion 1.7		Revision Date 2023-1
If swallowed	:	Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.
TION 5: Firefighting measu	res	
Flash point	:	49°C (120°F) Method: closed cup
Autoignition temperature	:	210°C (410°F)
Suitable extinguishing media	:	Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical.
Unsuitable extinguishing media	:	High volume water jet.
Specific hazards during fire fighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
Special protective equipment for fire-fighters	:	Wear self-contained breathing apparatus for firefighting if necessary.
Further information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.
Fire and explosion protection	:	Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Keep away from open flames, hot surfaces and sources of ignition.
Hazardous decomposition products	:	Carbon oxides.
TION 6: Accidental release	me	asures
Personal precautions	:	Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
Environmental precautions	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods for cleaning up	:	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
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Handling	
Advice on safe handling	: Avoid formation of aerosol. Do not breathe vapors/dust. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.
Advice on protection against fire and explosion	: Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Keep away from open flames, hot surfaces and sources of ignition.
Storage	
Requirements for storage areas and containers	 No smoking. Keep container tightly closed in a dry and well- ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.
CTION 8: Exposure controls	/personal protection
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	/personal protection
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Applicable Engineering measures Adequate ventilation to contr Consider the potential hazar activities, and other substand personal protective equipme exposure to harmful levels of recommended. The user sho	rol airborned concentrations below the exposure guidelines/limits. Ids of this material (see Section 2), applicable exposure limits, job ces in the work place when designing engineering controls and select ent. If engineering controls or work practices are not adequate to prev f this material, the personal protective equipment listed below is ould read and understand all instructions and limitations supplied with
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resion 1.7 Revision Date 2023-1 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 drager 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. Flame retardant antistatic protective clothing. Workers should wear antistatic footwear. Hygiene measures : When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday. ECTION 9: Physical and chemical properties Appearance Form : liquid Physical state : liquid Color : 0.7 %(V) Upper explosion limit : 0.7 %(V) Upper explosion limit : No data available Molecular formula : ClouPC (410°F) Thermal decomposition : No data available Molecular formula : ClouPC (410°F) Pit : Not data available <th>IphaPlus® 1-Decene</th> <th></th> <th>SAFETY DATA SHEE</th>	IphaPlus® 1-Decene		SAFETY DATA SHEE
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No: liquidPhysical state: liquidColor: Clear, colorlessSafety data:Flash point: 49°C (120°F) Method: closed cupLower explosion limit: 0.7 %(V)Upper explosion limit: 5.9 %(V)Oxidizing properties: noAutoignition temperature: 210°C (410°F)Thermal decomposition: No data availableMolecular weight: 140.3 g/molpH: Not applicableFreezing point: -66°C (-87°F)Pour pointNo data availableBoiling point/boiling range: 170.56°C (339.01°F)Vapor pressure: 0.21 kPa	Information on basic phys	ical	and chemical properties
Physical state Color: liquid Celar, colorlessSafety data:Flash point: 49°C (120°F) Method: closed cupLower explosion limit: 0.7 %(V)Upper explosion limit: 5.9 %(V)Oxidizing properties: noAutoignition temperature: 210°C (410°F)Thermal decomposition: No data availableMolecular formula: C10H20Molecular weight: 140.3 g/molpH: Not applicableFreezing point: -66°C (-87°F)Pour pointNo data availableBoiling point/boiling range: 170.56°C (339.01°F)Vapor pressure: 0.21 kPa	Appearance		
Flash point:49°C (120°F) Method: closed cupLower explosion limit:0.7 %(V)Upper explosion limit:5.9 %(V)Oxidizing properties:5.9 %(V)Autoignition temperature:210°C (410°F)Thermal decomposition:No data availableMolecular formula:C10H20Molecular weight:140.3 g/molpH:Not applicableFreezing point:-66°C (-87°F)Pour pointNo data availableBoiling point/boiling range:170.56°C (339.01°F)Vapor pressure:0.21 kPa	Physical state		liquid
Method: closed cupLower explosion limit: 0.7 %(V)Upper explosion limit: 5.9 %(V)Oxidizing properties: noAutoignition temperature: 210°C (410°F)Thermal decomposition: No data availableMolecular formula: C10H20Molecular weight: 140.3 g/molpH: Not applicableFreezing point: -66°C (-87°F)Pour pointNo data availableBoiling point/boiling range: 170.56°C (339.01°F)Vapor pressure: 0.21 kPa	Safety data		
Upper explosion limit:5.9 %(V)Oxidizing properties:noAutoignition temperature:210°C (410°F)Thermal decomposition:No data availableMolecular formula:C10H20Molecular weight:140.3 g/molpH:Not applicableFreezing point:-66°C (-87°F)Pour pointNo data availableBoiling point/boiling range:170.56°C (339.01°F)Vapor pressure:0.21 kPa	Flash point	:	
Oxidizing properties: noAutoignition temperature: 210°C (410°F)Thermal decomposition: No data availableMolecular formula: C10H20Molecular weight: 140.3 g/molpH: Not applicableFreezing point: -66°C (-87°F)Pour pointNo data availableBoiling point/boiling range: 170.56°C (339.01°F)Vapor pressure: 0.21 kPa	Lower explosion limit	:	0.7 %(V)
Autoignition temperature:210°C (410°F)Thermal decomposition:No data availableMolecular formula:C10H20Molecular weight:140.3 g/molpH:Not applicableFreezing point:-66°C (-87°F)Pour pointNo data availableBoiling point/boiling range:170.56°C (339.01°F)Vapor pressure:0.21 kPa	Upper explosion limit	:	5.9 %(V)
Thermal decomposition: No data availableMolecular formula: C10H20Molecular weight: 140.3 g/molpH: Not applicableFreezing point: -66°C (-87°F)Pour pointNo data availableBoiling point/boiling range: 170.56°C (339.01°F)Vapor pressure: 0.21 kPa	Oxidizing properties	:	no
Molecular formula:C10H20Molecular weight:140.3 g/molpH:Not applicableFreezing point:-66°C (-87°F)Pour point:-66°C (-87°F)Boiling point/boiling range:170.56°C (339.01°F)Vapor pressure:0.21 kPa	Autoignition temperature	:	210°C (410°F)
Molecular weight: 140.3 g/molpH: Not applicableFreezing point: -66°C (-87°F)Pour pointNo data availableBoiling point/boiling range: 170.56°C (339.01°F)Vapor pressure: 0.21 kPa	Thermal decomposition		: No data available
pH: Not applicableFreezing point: -66°C (-87°F)Pour pointNo data availableBoiling point/boiling range: 170.56°C (339.01°F)Vapor pressure: 0.21 kPa	Molecular formula	:	C10H20
Freezing point : -66°C (-87°F) Pour point No data available Boiling point/boiling range : 170.56°C (339.01°F) Vapor pressure : 0.21 kPa	Molecular weight	:	140.3 g/mol
Pour pointNo data availableBoiling point/boiling range: 170.56°C (339.01°F)Vapor pressure: 0.21 kPa	рН	:	Not applicable
Boiling point/boiling range : 170.56°C (339.01°F) Vapor pressure : 0.21 kPa	Freezing point	:	-66°C (-87°F)
Vapor pressure : 0.21 kPa	Pour point		No data available
	Boiling point/boiling range	:	170.56°C (339.01°F)
	Vapor pressure	:	0.21 kPa at 25°C (77°F)
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	2.30 kPa at 65°C (149°F)
Relative density	: 0.75 at 15.6 °C (60.1 °F)
Density	: 745 kg/m3 at 15°C (59°F)
	740 kg/m3 at 20°C (68°F)
	717 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	: 1.1 cSt at 20°C (68°F)
Relative vapor density	: 4.84 (Air = 1.0)
Evaporation rate	: No data available
	tivity
Reactivity	: Stable at normal ambient temperature and pressure.
Reactivity Chemical stability	
	 Stable at normal ambient temperature and pressure. This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Chemical stability	 Stable at normal ambient temperature and pressure. This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Chemical stability Possibility of hazardous re	 Stable at normal ambient temperature and pressure. This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Chemical stability Possibility of hazardous re	 Stable at normal ambient temperature and pressure. This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. eactions Hazardous reactions: Hazardous polymerization does not occur. Further information: No decomposition if stored and applied a
Chemical stability Possibility of hazardous re	 Stable at normal ambient temperature and pressure. This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. Eactions Hazardous reactions: Hazardous polymerization does not occur. Further information: No decomposition if stored and applied a directed. Hazardous reactions: Vapors may form explosive mixture with
Chemical stability Possibility of hazardous re Hazardous reactions	 Stable at normal ambient temperature and pressure. This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. Hazardous reactions: Hazardous polymerization does not occur. Further information: No decomposition if stored and applied a directed. Hazardous reactions: Vapors may form explosive mixture with air.

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Hazardous decomposition products	: Carbon oxides
Other data	: No decomposition if stored and applied as directed.
CTION 11: Toxicological infor	mation
Acute oral toxicity	
1-Decene	 LD50: > 3,575 mg/kg Species: Rat Sex: male and female Method: Fixed Dose Method Information given is based on data obtained from similar substances.
Acute inhalation toxicity	
1-Decene	 LC50: > 2.1 mg/l Exposure time: 4 h Species: Rat Sex: male and female Test atmosphere: vapor Method: OECD Test Guideline 403 Information given is based on data obtained from similar substances. Not classified due to data which are conclusive although insufficient for classification.
Acute dermal toxicity	
1-Decene	 LD50: > 2,000 mg/kg Species: Rat Sex: male and female Method: OECD Test Guideline 402 Information given is based on data obtained from similar substances.
Skin irritation	
1-Decene	: Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in desiccation of the skin.
Eye irritation 1-Decene	: No eye irritation
Sensitization	
1-Decene	: Did not cause sensitization on laboratory animals. Information given is based on data obtained from similar substances.
Repeated dose toxicity	
1-Decene	: Species: Rat, Male and female

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	Sex: Male and female Application Route: Oral Dose: 0, 100, 500, 1000 mg/kg Exposure time: 13 wks Number of exposures: 7 d/wk NOEL: 1,000 mg/kg Method: OCED Guideline 408 Information given is based on data obtained from similar substances. Species: Rat, Male and female Sex: Male and female Application Route: Inhalation Dose: 0, 300, 1000, 3000 ppm Exposure time: 13 wks Number of exposures: 6 hr/d, 5 d/wk NOEL: 3000 ppm Method: OECD Guideline 413 Information given is based on data obtained from similar substances.
Genotoxicity in vitro	
1-Decene	: Test Type: Ames test 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: Chromosome aberration test in vitro Metabolic activation: with and without metabolic activation Method: OECD Guideline 473 Result: negative
Genotoxicity in vivo	
1-Decene	: Test Type: Micronucleus test Species: Mouse Method: Mutagenicity (micronucleus test) Result: negative
Reproductive toxicity	
1-Decene	: Species: Rat Sex: male Application Route: Oral diet Dose: 0, 100, 500, 1000 mg/kg Method: OECD Guideline 421 NOAEL Parent: 1,000 mg/kg NOAEL F1: 1,000 mg/kg
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Aspiration toxicity	: May be fatal if swallowed and enters airways. Substances known to cause human aspiration toxicity hazards or to be regarded as if they cause human aspiration toxicity hazard.
CMR effects	
1-Decene	 Carcinogenicity: Not available Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Teratogenicity: Animal testing did not show any effects on fetal development. Reproductive toxicity: Animal testing did not show any effects on fertility.
AlphaPlus® 1-Decene Further information	: Solvents may degrease the skin.
CTION 12: Ecological infor	rmation
Toxicity to fish	
1-Decene	: LC50: 0.12 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) semi-static test Method: OECD Test Guideline 203 Information given is based on data obtained from similar substances.
Toxicity to daphnia and o	other aquatic invertebrates
1-Decene	: EC50: 0.56 - 1 mg/l Exposure time: 48 h Species: Daphnia Method: OECD Test Guideline 202
Toxicity to algae	
1-Decene	: EC50: 1 - 1.8 mg/l Exposure time: 72 h Species: Pseudokirchneriella subcapitata (microalgae) Method: OECD Test Guideline 201
M-Factor dec-1-ene	: M-Factor (Acute Aquat. Tox.) 1
	M-Factor (Chron. Aquat. Tox.) 1
Toxicity to daphnia and d	other aquatic invertebrates (Chronic toxicity)
Toxicity to daphnia and o	other aquatic invertebrates (Chronic toxicity) : NOEC: 0.0194 mg/l Exposure time: 21 d

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	Species: Daphnia magna (Water flea) Analytical monitoring: yes Test substance: yes Method: OECD Test Guideline 211
Biodegradability	: This material is expected to be readily biodegradable.
Elimination information (pers	istence and degradability)
Bioaccumulation	
1-Decene	: No data available
Mobility	
1-Decene	: No data available
Results of PBT assessment	
1-Decene	: Non-classified PBT substance, Non-classified vPvB substance
Additional ecological information	: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Very toxic to aquatic life with long lasting effects.
Ecotoxicology Assessmen	t
Short-term (acute) aquatic ha 1-Decene	azard : Very toxic to aquatic life.
Long-term (chronic) aquatic ł 1-Decene	nazard : Very toxic to aquatic life with long lasting effects.
SECTION 13: Disposal conside	rations
The information in this SDS p	pertains only to the product as shipped.
may meet the criteria of a ha other State and local regulati regulated components may b	purpose or recycle if possible. This material, if it must be discarded, zardous waste as defined by US EPA under RCRA (40 CFR 261) or ons. Measurement of certain physical properties and analysis for be necessary to make a correct determination. If this material is liste, federal law requires disposal at a licensed hazardous waste
Product	: The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.
Contaminated packaging	: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.
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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)

UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, III

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, III, (49 °C c.c.), MARINE POLLUTANT, (1-DECENE)

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, III

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

UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS, (1-DECENE)

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

30, UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, III, ENVIRONMENTALLY HAZARDOUS, (1-DECENE)

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

UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, III, ENVIRONMENTALLY HAZARDOUS, (1-DECENE)

For Tank Vessels and/or Barges: UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, (N1, CMR, F), III, ENVIRONMENTALLY HAZARDOUS, (1-Decene)

Other information

: Decene, S.T.2, Cat. X

Maritime transport in bulk according to IMO instruments

SECTION 15: Regulatory information

Classification and Labeling of Commonly Used Dangerous Chemical Substances	: Primary label: Combustible Liquid.
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IphaPlus® 1-Decene	
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Notification status	
Europe REACH	 This product is in full compliance according to REACH regulation 1907/2006/EC.
Switzerland CH INV United States of America (USA) TSCA	 On the inventory, or in compliance with the inventory On or in compliance with the active portion of the TSCA inventory
Canada DSL	: All components of this product are on the Canadian DSL
Australia AIIC New Zealand NZIoC Japan ENCS Korea KECI	 On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory A substance(s) in this product was not registered, notified to be registered, or exempted from registration by CPChem according to K-REACH regulations. Importation or manufacture of this product is still permitted provided the Korean Importer of Record has themselves notified the substance or the exported amount does not exceed the minimum threshold quantity of the non-registered substance(s).
Philippines PICCS Taiwan TCSI China IECSC	 On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory
ECTION 16: Other information	
Further information	
Legacy SDS Number : P	E0018
previous versions.	rersion are highlighted in the margin. This version replaces all
The information in this SDS pertain	
information and belief at the date of guidance for safe handling, use, pro not to be considered a warranty or	fety Data Sheet is correct to the best of our knowledge, f its publication. The information given is designed only as a occessing, storage, transportation, disposal and release and is quality specification. The information relates only to the ay not be valid for such material used in combination with any inless specified in the text.
Key or legend to abbre	viations and acronyms used in the safety data sheet

	Key or legend to abbreviations and acronyms used 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	NZloC	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	OSHA	Occupational Safety & Health		
		Scenario Tool		Administration		
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		1	
EOSCA	European Oilfield Specialty	PEL	Permissible Exposure Limit
	Chemicals Association		
EINECS	European Inventory of Existing	PICCS	Philippines Inventory of
	Chemical Substances		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	Acute toxicity estimate