



## SAFETY DATA SHEET

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### SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

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<b>Product identifier</b>	Novalene® 70P
<b>Synonyms</b>	Proprietary
<b>Trade names</b>	Not applicable
<b>Chemical family</b>	Linear olefinic hydrocarbons
<b>REACH Registration No.</b>	01-2119486450-38-0006
<b>Relevant identified uses of the substance or mixture and uses advised against</b>	Not for human or animal consumption.
<b>Issue Date</b>	04 November 2022

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### SECTION 2 - HAZARDS IDENTIFICATION

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<b>GHS Classification of the substance or mixture Regulation (EC) 1272/2008 [GHS] and 2012 OSHA Hazard Communication Standard, 29 CFR 1910.1200</b>	Aspiration hazard - Category 1. H304
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#### Label elements

**CLP/GHS hazard pictogram**



**CLP/GHS signal word**      Danger

**CLP/GHS hazard statements** H304 - May be fatal if swallowed and enters airways.

**CLP/GHS precautionary statements** P301+P310 - If swallowed: Immediately contact a poison control center or physician. P331- Do NOT induce vomiting. P405 - Store locked up. P501 - Dispose of contents/container to location in accordance with local/regional/national/international regulations.

**Other hazards** See Section 11.

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### **SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS**

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<u>Ingredient</u>	<u>CAS #</u>	<u>Percent</u>	<u>Classification</u>
1- Hexadecene	629-73-2	100%	H304

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### **SECTION 4 - FIRST AID MEASURES**

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#### **Description of first aid measures**

**Immediate Medical Attention Needed** Yes

**Eye Contact** If easy to do, remove contact lenses, if worn. Immediately flush eyes with copious quantities of water for at least 15 minutes. If irritation occurs or persists, notify medical personnel and supervisor.

**Skin Contact** Wash exposed area with soap and water and remove contaminated clothing/shoes. If irritation occurs or persists, notify medical personnel and supervisor.

**Inhalation** Immediately move exposed subject to fresh air. If not breathing, give artificial respiration. If breathing is labored, administer oxygen. Immediately notify medical personnel and supervisor.

**Ingestion** If swallowed, call a physician immediately. Do not induce vomiting unless directed by medical personnel. Do not give anything to drink unless directed by medical personnel. Never give anything by mouth to an unconscious person. Notify medical personnel and supervisor.

**Protection of first aid responders** See Section 8 for Exposure Controls/Personal Protection recommendations.

**Most important symptoms and effects, both acute and delayed** See Sections 2 and 11

**Indication of immediate medical attention and special treatment needed, if necessary** Treat symptomatically and supportively. If accidental exposure occurs to an individual who is also taking one or more concomitant medications, consult the respective package or prescribing information for potential drug interactions.

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## SECTION 5 - FIREFIGHTING MEASURES

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<b>Extinguishing media</b>	Use water spray (fog), foam, dry powder, or carbon dioxide, as appropriate for surrounding fire and materials.
<b>Specific hazards arising from the substance or mixture</b>	No information identified. May emit toxic fumes of carbon monoxide and carbon dioxide. Vapors may form explosive mixtures with air.
<b>Flammability/Explosivity</b>	No explosivity or flammability data identified. High airborne concentrations of finely divided organic particles can potentially explode if ignited. In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Advice for firefighters</b>	Wear full protective clothing and a self-contained breathing apparatus with a full facepiece operated in the pressure demand or other positive pressure mode. Decontaminate all equipment after use.

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## SECTION 6 - ACCIDENTAL RELEASE MEASURES

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<b>Personal precautions, protective equipment and emergency procedures</b>	If product is released or spilled, take proper precautions to minimize exposure by using appropriate personal protective equipment (see Section 8). Area should be adequately ventilated.
<b>Environmental precautions</b>	Do not empty into drains. Avoid release to the environment.
<b>Methods and material for containment and cleaning up</b>	For small spills (such as in a laboratory), soak up material with absorbent, e.g., damp paper towel, and wash spill area thoroughly with soap and water. For large spills in manufacturing, use an industrial vacuum cleaner equipped with a high efficiency particulate (HEPA) filter if available. Alternatively if in solid or dried form, do not raise dust. Surround spill or powder with absorbents and place a damp cloth or towel over the area to minimize powder from entering the air. Use care in the choice of absorbents as some may react and generate excess heat and create a risk of fire. Review safety data sheets of absorbents prior to use. Add excess liquid to allow for the material to enter solution. Capture remaining liquid onto spill absorbents. Place spill materials into a leak-proof container suitable for disposal. Decontaminate area a second time. Dispose of material in a manner that is compliant with federal, state and local laws.
<b>Reference to other sections</b>	See Sections 8 and 13 for more information.

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## SECTION 7 - HANDLING AND STORAGE

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<b>Precautions for safe handling</b>	Avoid contact with eyes, skin and other mucous membranes. Wash thoroughly after handling. Use personal protective equipment. Avoid breathing vapor. Do not eat, drink or smoke while handling this product. Avoid prolonged or repeated exposure. Provide sufficient air exchange and/or exhaust in workrooms. Take precautionary measures against static discharges. Use normal preventative fire protection measures.
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**Conditions for safe storage including any incompatibilities** Keep container tightly closed. Keep in a cool and well-ventilated area away from any ignition source. To maintain product quality, do not store in heat or direct sunlight.

**Specific end use(s)** No information identified.

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## **SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**Exposure/Engineering controls** Selection and use of containment devices and personal protective equipment should be based on a risk assessment of exposure potential. Use local exhaust and/ or enclosure at mist/aerosol/spray-generating points. High-energy operations such as spraying should be done within an approved emission control or containment system.

**Respiratory protection** Choice of respiratory protection should be appropriate to the task and the level of existing engineering controls. An approved and properly fitted air-purifying respirator with HEPA filters should provide ancillary protection based on the known or foreseeable limitations of existing engineering controls. Use a powered air-purifying respirator equipped with HEPA filters or combination filters or a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, when exposure levels are not known, or in any other circumstances where a lower level of respiratory protection may not provide adequate protection.

**Hand protection** Wear nitrile or other impervious gloves if skin contact is possible. When the material is dissolved or suspended in an organic solvent, wear gloves that provide protection against the solvent.

**Skin protection** Wear appropriate gloves, lab coat, or other protective overgarment if skin contact is likely. Base the choice of skin protection on the job activity, potential for skin contact and solvents and reagents in use.

**Eye/face protection** Wear safety glasses with side shields, chemical splash goggles, or full face shield, if necessary. Base the choice of protection on the job activity and potential for contact with eyes or face. An emergency eye wash station should be available.

**Environmental Exposure Controls** Avoid release to the environment and operate within closed systems wherever practicable. Air and liquid emissions should be directed to appropriate pollution control devices. In case of spill, do not release to drains. Implement appropriate and effective emergency response procedures to prevent release or spread of contamination and to prevent inadvertent contact by personnel.

**Other protective measures** Wash hands in the event of contact with this mixture, especially before eating, drinking or smoking. Protective equipment is not to be worn outside the work area (e.g., in common areas or out-of-doors). Decontaminate all protective equipment following use.

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**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

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**Information on basic physical and chemical properties**

<b>Appearance</b>	Liquid
<b>Color</b>	Colorless to pale-yellow
<b>Odor</b>	Paraffinic
<b>Odor threshold</b>	No information identified.
<b>pH</b>	No information identified.
<b>Melting point/freezing point</b>	No information identified.
<b>Initial boiling point and boiling range</b>	265 °C
<b>Flash point</b>	127 °C (261 °F) Cleveland Open Cup
<b>Evaporation rate</b>	No information identified.
<b>Flammability (solid, gas)</b>	No information identified.
<b>Upper/lower flammability or explosive limits</b>	Not flammable
<b>Vapor pressure</b>	5 Pa at 20°C
<b>Vapor density</b>	No information identified.
<b>Relative density</b>	0.78 g/mL @ 20°C.
<b>Water solubility</b>	0.001 mg/L at 25 °C
<b>Solvent solubility</b>	Soluble in hydrocarbon solvents; insoluble in water.
<b>Partition coefficient (<i>n</i>-octanol/water)</b>	Log Pow 7.98 at 20°C
<b>Auto-ignition temperature</b>	240 °C at 325 Pa
<b>Decomposition temperature</b>	No information identified.
<b>Viscosity</b>	2.6 mm <sup>2</sup> /s at 40°C.
<b>Explosive properties</b>	No information identified.
<b>Oxidizing properties</b>	No information identified.
<b>Other information</b>	
<b>Molecular weight</b>	Proprietary
<b>Molecular formula</b>	Proprietary

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**SECTION 10 - STABILITY AND REACTIVITY**

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<b>Reactivity</b>	No information identified.
<b>Chemical stability</b>	Stable under normal handling and storage conditions
<b>Possibility of hazardous reactions</b>	Not expected to occur.
<b>Conditions to avoid</b>	Keep away from heat and open flames.
<b>Incompatible materials</b>	Avoid strong oxidizers, strong acids and strong bases.
<b>Hazardous decomposition products</b>	Carbon oxides (CO, CO <sub>2</sub> )

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**SECTION 11 - TOXICOLOGICAL INFORMATION**

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**Information on toxicological effects**

<b>Acute oral toxicity</b>	LD50: > 5,000 mg/kg bw
<b>Acute inhalation toxicity</b>	Species: Rat Method: Acute oral toxicity – Fixed dose method LC50: 8050 ppm Exposure time: 4 h Test atmosphere: vapor
<b>Acute dermal toxicity</b>	Method: Acute inhalation toxicity LD50: > 5,000 mg/kg bw Species: Rabbit Method: Acute Dermal Toxicity
<b>Skin Irritation</b>	Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in desiccation of the skin.
<b>Eye irritation</b>	No eye irritation. Vapors may cause irritation to the eyes, respiratory system and the skin.
<b>Sensitization</b>	Does not cause sensitization.
<b>STOT-repeated</b>	No studies identified.
<b>Exposure/Repeat-dose toxicity</b>	
<b>hexadecene</b>	
<b>Developmental toxicity</b>	NOEL 1000 mg/kg bw /day
<b>Reproductive toxicity</b>	NOAEL 1000 mg/kg bw /day
<b>Genotoxicity</b>	This class of compounds is non-genotoxic
<b>Carcinogenicity</b>	No studies identified.
<b>Aspiration hazard</b>	May be fatal if swallowed and enters airways.
<b>Other information</b>	Solvents may degrease the skin.

Neurotoxicity

NOAEL 1000 mg/kg bw/day

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## SECTION 12 - ECOLOGICAL INFORMATION

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<b>Toxicity to fish</b>	LL50: 5.6 mg/L Exposure time : 96 h Species: Oncorhynchus mykiss Semi-static renewal, Test Method: OECD Test Guideline 203
<b>Toxicity to daphnia and other aquatic invertebrates</b>	EC50: 4.4 mg/l Exposure time: 48 h Species: Daphnia magna Static test, Test Method: OECD Test Guideline 202
<b>Toxicity to algae</b>	EC50: > 5.5 mg/L Exposure time: 96 h Species: Pseudokirchneriella subcapitata Static test, Test Method: OECD Test Guideline 201
<b>Persistence and Degradability</b>	Readily biodegradable.
<b>Bioaccumulative potential</b>	This material is not expected to bioaccumulate. Log Kow >10
<b>Mobility in soil</b>	Predicted Log Koc 3.630781 at 20°C
<b>Results of PBT and vPvB assessment</b>	Non-classified vPvB substance, Non-classified PBT substance
<b>Other adverse effects</b>	No information

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## SECTION 13 - DISPOSAL CONSIDERATIONS

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<b>Waste treatment methods</b>	Used product should be disposed of according to local, state, and federal regulations. Do not send down the drain or flush down the toilet. All wastes containing the material should be properly labeled. Dispose of wastes in accordance to prescribed federal, state, and local guidelines, e.g., appropriately permitted chemical waste incinerator. Rinse waters resulting from spill cleanups should be discharged in an environmentally safe manner, e.g., appropriately permitted municipal or on-site wastewater treatment facility.
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## SECTION 14 - TRANSPORT INFORMATION

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<b>Transport</b>	Based on the available data, this mixture is not regulated as a hazardous material/ dangerous good under EU ADR/RID, US DOT, Canada TDG, IATA, or IMDG.
<b>UN number</b>	None assigned.
<b>UN proper shipping name</b>	None assigned.
<b>Environmental hazards</b>	Based on the available data, this product/mixture is not regulated as an environmental hazard or a marine pollutant.

**Special precautions for users** Avoid exposure and releases to the environment.

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

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## SECTION 15 - REGULATORY INFORMATION

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**Safety, health and environmental regulations/legislation specific for the substance or mixture** This SDS complies with the requirements under US, EU and GHS (EU CLP - Regulation EC No 1272/2008 and UN ST/SG/AC 10/30 rev 3) guidelines.

**Chemical safety assessment** Conducted.

**OSHA Hazardous** Yes. Harmful or fatal if swallowed. Can enter lungs and cause damage. Mixture not fully tested.

**WHMIS classification** This substance does not meet any of the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by those regulations.

**SARA section 312/313** Acute health hazard (aspiration)  
**California proposition 65** Not listed.

**Notification status** This mixture contains only ingredients which have been registered according to Regulation (EU) No. 1907/2006 (REACH)

**Europe REACH**

**USA TSCA** On TSCA Inventory

**Canada NDSL** This product contains one or several components listed in the Canadian NDSL.

**Australia AICS** Not in compliance with the inventory

**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.

**Switzerland CH INV** On the inventory, or in compliance with the inventory.

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## SECTION 16 - OTHER INFORMATION

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**Full text of H phrases, P phrases and GHS classification** AH1- Aspiration Hazard - Category 1 H304 - May be fatal if swallowed and enters airways

**NFPA Classification:**

Health Hazard: 1; Fire Hazard: 1; Reactivity Hazard; 0

**Sources of data** Information from published literature and internal company data.



**Abbreviations**

ACGIH - American Conference of Governmental Industrial Hygienists  
ADR/RID - European Agreement Concerning the International Carriage of Dangerous Goods by Road/Rail  
AIHA - American Industrial Hygiene Association  
CAS# - Chemical Abstract Services Number  
DNEL - Derived No Effect Level  
DOT - Department of Transportation  
EINECS - European Inventory of New and Existing Chemical Substances  
ELINCS - European List of Notified Chemical Substances  
EU - European Union  
GHS - Globally Harmonized System of Classification and Labelling of Chemicals  
IARC - International Agency for Research on Cancer  
IDLH - Immediately Dangerous to Life or Health  
IATA - International Air Transport Association  
IMDG - International Maritime Dangerous Goods  
LOEL - Lowest Observed Effect Level  
LOAEL - Lowest Observed Adverse Effect Level  
NIOSH - The National Institute for Occupational Safety and Health  
NOEL - No Observed Effect Level  
NOAEL - No Observed Adverse Effect Level  
NTP - National Toxicology Program  
OEL - Occupational Exposure Limit  
OSHA - Occupational Safety and Health Administration  
PBT - Persistent, Bioaccumulative and Toxic  
PNEC - Predicted No Effect Concentration  
SARA - Superfund Amendments and Reauthorization Act  
STEL - Short Term Exposure Limit

**Abbreviations ...continued**

TDG - Transport Dangerous Goods  
TSCA - Toxic Substances Control Act  
TWA - Time Weighted Average  
WHMIS - Workplace Hazardous Materials Information System

**Revisions**

Rev 1.5 Composition.

**Disclaimer**

The above information is based on data available to us and is believed to be correct. Since the information may be applied under conditions beyond our control and with which we may be unfamiliar, we do not assume any responsibility for the results of its use and all persons receiving it must make their own determination of the effects, properties and protections which pertain to their particular conditions. No representation, warranty, or guarantee, express or implied (including a warranty of fitness or merchantability for a particular purpose), is made with respect to the materials, the accuracy of this information, the results to be obtained from the use thereof, or the hazards connected with the use of the material. Caution should be used in the handling and use of the material because it is a pharmaceutical product. The above information is offered in good faith and with the belief that it is accurate. As of the date of issuance, we are providing all information relevant to the foreseeable handling of the material. However, in the event of an adverse incident associated with this product, this Safety Data Sheet is not, and is not intended to be, a substitute for consultation with appropriately trained personnel.