



## SAFETY DATA SHEET

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

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Product identifier	Novvi Light Iso-alkanes
Synonyms	Proprietary
Trade names	Not applicable
Chemical family	Branched and linear saturated hydrocarbons
Relevant identified uses of the substance or mixture and uses advised against	Not for human or animal consumption.
Issue Date	03 December 2020

### SECTION 2 - HAZARDS IDENTIFICATION

GHS Classification of the substance or mixture	Aspiration hazard - Category 1- H304 Flammable Liquid - Category 3 - H226
Regulation (EC) 1272/2008 [GHS] and 2012 OSHA Hazard Communication Standard, 29 CFR 1910.1200	Skin Irrit. 2 - H315 Repr. 2 - H361 STOT SE 3 - H336 STOT RE 2 - H373

#### Label elements

CLP/GHS hazard pictogram



CLP/GHS signal word      Warning

**CLP/GHS hazard statements** H226 Flammable liquid and vapor.  
H315 Causes skin irritation.  
H361 Suspected of damaging fertility or the unborn child.  
H336 May cause drowsiness or dizziness.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H411 Toxic to aquatic life with long lasting effects.  
H304 May be fatal if swallowed and enters airways.

**CLP/GHS precautionary statements** P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P271 Use only outdoors or in a well-ventilated area.  
P273 Avoid release to the environment.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
P331 Do NOT induce vomiting.  
P370+P378 In case of fire: Use foam, carbon dioxide or dry powder to extinguish. Volatile. Vapors may form explosive mixtures with air. Risk of soil and ground water contamination.

**Other hazards**

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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>
C4-C10 branched and linear hydrocarbons (light)	848301-65-5	20-30%	H226, H315, H361, H336, H373, H304
Alkanes, C10-C20 branched and linear	928771-01-1	70-80%	H227, 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** Irritating to skin. May irritate eyes. Vapours in high concentrations are narcotic. May cause nausea, headache, dizziness and intoxication. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

**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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**Extinguishing media** Use water spray (fog), foam, dry powder, or carbon dioxide, as appropriate for surrounding fire and materials.

**Specific hazards arising from the substance or mixture** Highly flammable liquid and vapor. Risk of explosion. Vapors may accumulate on the floor and in low-lying areas. Containers can burst violently or explode when heated, due to excessive pressure build-up.

**Advice for firefighters** Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Prevent fire extinguishing water from contaminating surface water or the ground water system. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

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## **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

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**Personal precautions, protective equipment and emergency procedures** 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.

**Environmental precautions** Do not empty into drains. Avoid release to the environment.

**For emergency responders** Prevent unauthorized access. Vapors are heavier than air and may travel a considerable distance to a source of ignition and flash back. Use only in well-ventilated areas. Eliminate all ignition sources if safe to do so. Take precautionary measures against static discharge.

**Methods and material for containment and cleaning up** 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. Pay attention to the fire and health hazards caused by the product. Dispose of material in a manner that is compliant with federal, state and local laws.

**Reference to other sections** See Sections 8 and 13 for more information.

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## **SECTION 7 - HANDLING AND STORAGE**

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**Precautions for safe handling** The product contains volatile substances which may spread in the atmosphere. Vapors may accumulate on the floor and in low-lying areas. Avoid heat, flames and other sources of ignition. Take precautionary measures against static discharges. Use explosion-proof electrical equipment. All handling should only take place in well-ventilated areas. Try to avoid product volatilization during handling and transferring. 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.

<b>Conditions for safe storage including any incompatibilities</b>	Flammable liquid storage. Store in accordance with local regulations. Protect from sunlight. Store in a demarcated bunded area to prevent release to drains and/or watercourses. Take precautions against leakage by constructing collecting pools and sewerage systems as well as by surfacing the loading and unloading stations. Only store in correctly labelled containers. Use containers made of the following materials: Stainless steel.
<b>Specific end use(s)</b>	No information identified.

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

<b>Occupational Exposure Limits</b>	The individual limit values can be applied for the hydrocarbons. ACGIH TLV®-TWA (8h) 100 mg/m3 (IFV).
<b>Exposure/Engineering controls</b>	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. During tank operations follow special instructions (risk of oxygen displacement and hydrocarbons).
<b>Respiratory protection</b>	Filter device/half mask Gas filter, type AX. Filter device could be used maximum 2 hours at a time. Filter devices must not be used in conditions where the oxygen level is low (< 19 vol.-%). At high concentrations a breathing apparatus must be used (self-contained or fresh air hose breathing apparatus). Filter must be changed often enough. Respirator according to standard EN 140.
<b>Hand protection</b>	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.
<b>Skin protection</b>	Wear protective gloves. It is recommended that gloves are made of the following material: Nitrile rubber. The selected gloves should have a breakthrough time of at least 8 hours. Protection class 6. Protective gloves according to standards EN 420 and EN 374. Change protective gloves regularly.
<b>Eye/face protection</b>	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.
<b>Environmental Exposure Controls</b>	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>	98 °C to 400 °C
<b>Flash point</b>	35 °C
<b>Evaporation rate</b>	No information identified.
<b>Flammability (solid, gas)</b>	No information identified.
<b>Upper/lower flammability or explosive limits</b>	No information identified.
<b>Vapor pressure</b>	No information identified.
<b>Vapor density</b>	No information identified.
<b>Relative density</b>	0.77 g/mL @ 20°C.
<b>Water solubility</b>	Not soluble
<b>Solvent solubility</b>	Soluble in hydrocarbon solvents; insoluble in water.
<b>Partition coefficient (<i>n</i>-octanol/water)</b>	No information identified.
<b>Auto-ignition temperature</b>	No information identified.
<b>Decomposition temperature</b>	No information identified.
<b>Viscosity</b>	0.5 mm <sup>2</sup> /s @ 25°C
<b>Explosive properties</b>	No information identified.
<b>Oxidizing properties</b>	No information identified.

### Other information

<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>	LD <sub>50</sub> >2000 mg/kg, Oral, Rat (EC B1 tris)
<b>Acute inhalation toxicity</b>	Based on available data the classification criteria are not met.
<b>Acute dermal toxicity</b>	LD <sub>50</sub> > 2000 mg/kg, Dermal, Rat (EC B3)
<b>Skin Irritation</b>	Based on available data the classification criteria are not met.,(EC B4),Repeated exposure may cause skin dryness or cracking. The product irritates mucous membranes and may cause abdominal discomfort if swallowed. May cause respiratory system irritation.
<b>Eye irritation</b>	Based on available data the classification criteria are not met.
<b>Sensitization</b>	Does not cause sensitization.
<b>STOT – single exposure</b>	Based on available data the classification criteria are not met.
<b>STOT-repeated Exposure</b>	Based on available data the classification criteria are not met.
<b>Developmental toxicity</b>	Based on available data the classification criteria are not met.
<b>Reproductive toxicity</b>	Based on available data the classification criteria are not met.
<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.

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**SECTION 12 - ECOLOGICAL INFORMATION**

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<b>Toxicity to fish</b>	LL <sub>50</sub> , 96 hours: > 1000 mg/l, Fish WAF (OECD 203)
<b>Toxicity to daphnia and other aquatic invertebrates</b>	EL50, 48 hours: > 100 mg/l, WAF (OECD 202)
<b>Toxicity to algae</b>	EL50, 72 hours: > 100 mg/l, Algae WAF (OECD 201)
<b>Persistence and Degradability</b>	Readily biodegradable.
<b>Bioaccumulative potential</b>	Possibly bioaccumulative. log Pow >6.5
<b>Mobility in soil</b>	Evaporates slowly. The product has poor water-solubility. The product contains substances which are bound to particulate matter and are retained in soil.
<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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### Land transport

USDOT

Hazard class: 3

Packing group: III

ID number: UN 3295

Hazard label: 3, EHSM

Marine pollutant: YES

Proper shipping name: Hydrocarbons, Liquid, n.o.s.

### Sea transport

IMDG

Hazard class: 3

Packing group: III

ID number: UN 3295

Hazard label: 3, EHSM

Marine pollutant: YES

Proper shipping name: Hydrocarbons, Liquid, n.o.s.

### Air transport

IATA/ICAO

Hazard class: 3

Packing group: III

ID number: UN 3295

Hazard label: 3, EHSM

Proper shipping name: Hydrocarbons, Liquid, n.o.s.

**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**      Transported by ship as bulk: Product name: Alkanes, C10-C26 linear and branched,

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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.

**WHMIS classification**      Health: 3 Flammability: 1 Physical hazard: 0

**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

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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: 3; Reactivity Hazard: 0

**Sources of data  
Abbreviations**

Information from published literature and internal company data.  
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**

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

**Revisions**

Rev 1.1 Change to Section 3.

**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.