

SAFETY DATA SHEET

SECTION 1.0	PRODUCT AND COMPANY IDENTIFICATION
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Product Identifier

UNINAP® 100 AV

Other means of identification

100 Pale Oil

Recommended use (identified)

Not available

Recommended restrictions

None know

Manufacturer/Importer/Supplier/Distributor Information

UNISOURCE-ENERGY, LLC
40 Shuman Blvd, Suite 290
Naperville, IL 60563

E-mail

orders@unisource-energy.com

Telephone number

Phone: 630-470-6030 Fax: 630-470-6031

Emergency telephone number

UNISOURCE-ENERGY, LLC
1-800-444-5510

CHEMTREC
1-800-424-9300

SECTION 2.0	HAZARD(S) IDENTIFICATION
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OSHA/HCS status

Not Classified.

GHS label elements



Signal word

Danger



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Hazard Statement

May be fatal if swallowed and enters airways.

Physical Hazards

Not classified.

Health Hazards

Aspiration hazard Category 1

Precautionary Statement
Prevention

Wear protective gloves/protective clothing/eye protection/face protection.

Response

Not available.

Storage

Store locked up.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

None know.

Supplemental information

None.

SECTION 3.0
COMPOSITION/INFORMATION ON INGREDIENTS
CAS number/other identifiers

Chemical Name	%	CAS number
Distillates (petroleum) hydrotreated heavy naphthenic	100	64742-52-5
Distillates (petroleum) hydrotreated light naphthenic	100	64742-53-6

SECTION 4.0
FIRST AID MEASURES
Description of necessary first aid measures
Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms occur.

Inhalation

If symptomatic, move to fresh air. Get medical attention if symptoms persist.



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Skin contact

Remove contaminated clothing and shoes. Wash off immediately with soap and plenty of water. Get medical attention if irritation develops or persists. Wash clothing separately before reuse. Destroy or thoroughly clean contaminated shoes.

Ingestion

Call a physician or poison control center immediately. Rinse mouth. Never give anything by mouth to an unconscious person. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content does not get into the lungs. Aspiration may cause pulmonary edema and pneumonitis.

Most important symptoms, acute and delayed

May be fatal if swallowed and enters airways

Indication of immediate medical attention and special treatment needed

Treat symptomatically. Symptoms may be delayed.

General Information

Get medical attention if symptoms occur. Wash contaminated clothing before re-use.

SECTION 5.0**FIRE-FIGHTING MEASURES****Suitable extinguishing media**

Water spray, Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂)

Unsuitable extinguishing media

Not available

Specific hazards arising from the chemical

Not applicable

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6.0**ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

Avoid breathing mist or vapor. Wear appropriate personal protective equipment (See Section 8).

Methods and materials for containment and cleaning up

Absorb spill with vermiculite or other inert material, then place in a sealed container for chemical waste.

Large Spills: Flush area with water. Prevent runoff from entering drains, sewers, or streams. Dike for later disposal.



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SECTION 7.0	HANDLING AND STORAGE
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Precautions for safe handling

Use only outdoors or in a well ventilated area. Avoid breathing mist or vapor. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in a well-ventilated place. Keep container tightly closed.

SECTION 8.0	EXPOSURE CONTROLS/PERSONAL PROTECTION
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Occupational exposure controls

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Component	Type	Value	Form
Distillates (petroleum) hydrotreated heavy naphthenic (CAS 64742-52-5)	PEL	5 mg/m ³	Mist
		2000 mg/m ³	
		500 ppm	
Distillates (petroleum) hydrotreated light naphthenic (CAS 64742-53-6)	PEL	5 mg/m ³	Mist
		2000 mg/m ³	
		500 ppm	

US. ACGIH Threshold Limit Values

Component	Type	Value	Form
Distillates (petroleum) hydrotreated heavy naphthenic (CAS 64742-52-5)	TWA	5 mg/m ³	Inhalable fraction
Distillates (petroleum) hydrotreated light naphthenic (CAS 64742-53-6)	TWA	5 mg/m ³	Inhalable fraction

US. NIOSH: Pocket Guide to Chemical Hazards

Component	Type	Value	Form
Distillates (petroleum) hydrotreated heavy naphthenic (CAS 64742-52-5)	Ceiling	1800 mg/m ³	
	STEL	10 mg/m ³	Mist
	TWA	5 mg/m ³	Mist
Distillates (petroleum) hydrotreated light naphthenic (CAS 64742-53-6)	Ceiling	1800 mg/m ³	
	STEL	10 mg/m ³	Mist
	TWA	5 mg/m ³	Mist

Biological limit values

No biological exposure limits noted for the ingredient(s).



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Exposure guidelines

No exposure standards allocated

Engineering measures

Ensure adequate ventilation, especially in confined areas

Personal protective equipment

Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134. Respirator type: Use NIOSH approved respirator with organic vapor/acid gas protection

Hand protection

Wear protective gloves)

Eye protection

Wear safety glasses with side shields (or goggles)

Skin and body protection

Wear chemical-resistant gloves, footwear and protective clothing appropriate for risk of exposure. Contact glove manufacturer for specific information.

Thermal hazards

When material is heated, wear gloves to protect against thermal burns

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

SECTION 9.0

PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Oily, viscous liquid
Physical state	Liquid
Color	Water white to pale straw
Odor	Petroleum-like
Odor threshold	Not available
pH	Not available
Melting point/freezing point	-65 – -45°F (-53.89 – -42.22°C)
Initial boiling point and boiling range	>446°F (>230°C)
Flash point, Pensky-Martin Closed Cup	>288.0°F (>142.2°C)
Evaporation rate	Not available
Flammability (solid, gas)	Not available



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Lower and upper explosive (flammable) limits	Not available
Vapor pressure	0.16kPa
Vapor density	Not available
Relative density	Not available
Solubility (in water)	Insoluble
Partition coefficient n-octanol/water	>6
Auto-ignition temperature	>518°F (>270°C)
Decomposition temperature	>536°F (>280°C)
Viscosity	3.7 – 22 Cst. (@104°F(40°C))
Density	902.00 – 910.00 kg/m ³ @ 59°F(15°)

SECTION 10.0

STABILITY AND REACTIVITY

Reactivity

This product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability

Material is stable under normal conditions.

Possibility of hazardous reactions

Hazardous polymerization does not occur.

Conditions to avoid

Excessive heat.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11.0

TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation

May be fatal if swallowed and enters airways.

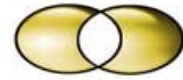
Skin contact

Based on available data, the classification criteria are not met.

Eye contact

Based on available data, the classification criteria are not met.

Ingestion



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May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological effects

Swallowing or vomiting of the liquid may result in aspiration into the lungs

Information on toxicological effects

Acute toxicity

May be fatal if swallowed and enters airways.

Components	Acute	Species	Test Results
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	LD ₅₀ Inhalation	Rat	2.81 mg/l

Skin corrosion/irritation

Not available

Serious eye damage/eye irritation

Not available

Respiratory or skin sensitization

Respiratory sensitization

Not assigned

Skin sensitization

Not assigned

Germ cell mutagenicity

Not assigned

Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP or OSHA. Petroleum components contained in this product meet the IP 346 criteria of less than 3 percent DMSO extractable components.

IARC Monographs. Overall Evaluation of Carcinogenicity

Distillates (petroleum), hydrotreated heavy naphthenic (GAS 64742-52-5)

3 – Not classifiable as to carcinogenicity to humans.

Distillates (petroleum), hydrotreated light naphthenic (GAS 64742-53-6)

3 – Not classifiable as to carcinogenicity to humans.

NTP Report on Carcinogens

Not listed

OSHA Specifically Regulated Substances (29 CFR 1910.1001 – 1050)

Not regulated

Reproductive toxicity

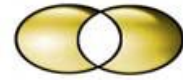
Not assigned

Specific target organ toxicity – single exposure

Not assigned

Specific target organ toxicity – repeated exposure

Not assigned



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Aspiration hazard

May be fatal if swallowed and enters airways

SECTION 12.0

ECOLOGICAL INFORMATION

Ecotoxicity

This material has not been tested for environmental effects.

Persistence and degradability

No data available.

Bioaccumulative potential

Has the potential to bioaccumulate.

Partition coefficient n-octanol/water (log K_{ow}): >6

Mobility in soil

Not available.

Other adverse effects

Not available.

SECTION 13.0

DISPOSAL CONSIDERATIONS

Disposal instructions

Dispose of contents/container in accordance with local/regional/national/international regulations. When this product as supplied is to be discarded as waste, it does not meet the definition of a RGRA waste under 40 GFR 261.

Hazardous waste code

Not regulated

Waste from residues/unused products

Disposal of in accordance with local regulations

Contaminated packaging

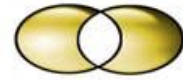
Since emptied containers may retain products residue, follow label warnings even after container is emptied.

SECTION 14.0

TRANSPORT INFORMATION

DOT

Not regulated as dangerous goods



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IATA

Not regulated as dangerous goods

IMDG

Not regulated as dangerous goods

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

Not applicable. However, this product is a liquid and if transported in bulk is covered under MARPOL 73/78, Annex 1.

SECTION 15.0	REGULATORY INFORMATION
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OSHA/HCS status

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200

US Federal regulations
TSCA Section 12(b) Export Notification (40 CFR 707. Subpart D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated

CERCLA Hazardous Substances (40 CFR 302.4)

Not listed

Superfund Amendments and Reauthorization Act of 1986 (SARA)
Hazard categories

Immediate Hazard – Yes

Delayed hazard – No

Fire Hazard – No

Pressure Hazard – No

Reactivity Hazard – No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical

Yes

SARA 313 (TRI reporting)

Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.



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Safe Drinking Water Act (SOWA)

Not regulated.

US State Regulations

Massachusetts Right-To-Know (RTK) – Substance List

Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)

Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)

New Jersey Worker and Community Right-to-Know

Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)

Pennsylvania Worker and Community Right-to-Know Law

Not Listed

Rhode Island RTK

Not regulated.

California Proposition 65

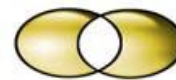
Not Listed.

International regulations

Country(s) or region	Inventory name	On Inventory (yes/no) *
Australia	Australian inventory of Chemical Substances (AJCS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies with inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not or exempt from listing on the inventory administered by the governing country(s).

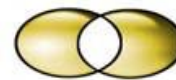


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SECTION 16.0	OTHER INFORMATION
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Abbreviations

ACGIH = American Conference of Governmental Industrial Hygienists; ADR = European Road Transport; AICS = Australia Inventory of Chemical Substances; ASTM = American society of Testing and Materials; ATE = Acute Toxicity Estimation: AU = Australia; Autoignition Temperature = The minimum temperature required to initiate combustion in air with no other source of ignition, BCF = Bioconcentration Factor; BEI = - Biological Exposure Indices, represent the levels of determinants which are most likely to be observed in specimens collected from a healthy worker who has been exposed to chemicals to the same extent as a worker with inhalation exposure to the TLV, BEL = Biological exposure limits; BOD = Biochemical Oxygen Demand; BTEX = Benzene, Toluene, Ethylbenzene, Xylenes; bw = body weight; bw/day = body weight/day; C = Celsius, CA = Canada, CAS = Chemical Abstracts Service; CEFIC = European Chemical Industry Council; CEILING = Ceiling Limit (15 minutes); CERCLA = The Comprehensive Environmental Response, Compensation, and Liability Act; CLP = Classification Packaging and Labelling Regulation (Regulation (EU) No. 1272/2008; COC = Cleveland Open Cup; CN = China; CPR= Controlled Products Regulations; CWA = Clean Water Act; DEA – Drug Enforcement Administration; DFG = Deutsche Forschungsgemeinschaft; DIN = Deutsches Institut für Normung; DMEL = Derived Minimal Effect Level; DNEL = Derived No Effect Level; DOT = Department of Transportation; DSL = Domestic Substances List (Canada); dw = dry weight; EC = European Commission; EC50 = Effective Concentration fifty; ECC = European Economic Community; ECETOC = European Center on Ecotoxicology and Toxicology Of Chemicals; ECHA = European Chemicals Agency; EINECS - European Inventory of Existing Commercial Chemical Substances; ELINCS = European List of Notified Chemical Substances; EL50 = Effective Loading fifty; ENCS = Japan Existing and New Chemical Substances; EPA = Environmental Protection Agency; EU = European Union; EUH statement = CLP –specific Hazard statement: EWC = European Waste Code; F = Fahrenheit; Flash Point = Minimum temperature at which a liquid gives off sufficient vapors to form an ignitable mixture with air; fw = fresh water; GHS = Globally Harmonized System of Classification and Labelling of Chemicals; GLP = Good Laboratory Practice; HAPs = Hazardous Air Pollutants; IARC = International Agency for Research on Cancer; IATA = International Air Transport Association; IBC = Intermediate Bulk Container; IC₅₀ = Inhibitory Concentration fifty; ICAO = International Civil Aviation Organization; IDL = Ingredient Disclosure List; IDLH = Immediately Dangerous to Life and Health; IL₅₀ = Inhibitory Level fifty; IMDG = International Maritime Dangerous Goods; INSHT = National Institute for Health and Safety at Work; INV = Chinese Chemicals Inventory; IOPC = International Oil Pollution Compensation; IP346 = Institute of Petroleum test method N° 346 for the determination of polycyclic aromatics DMSO-extractables; JP – Japan; , Kow = Octanol/water partition; KECI = Korea Existing Chemicals Inventory, LC₅₀ = Lethal Concentration (gases) which kills 50% of the exposed animals, LD₅₀ = :Lethal Dose (solids & liquids) which kills 50% of the exposed animals; . LL/EL/IL = Lethal Loading/Effective Loading/Inhibitory loading; LL₅₀ = Lethal Loading fifty; LEL = The lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source.; LogPow = logarithm of the octanol/water partition coefficient; LOLI = List of Lists™ - ChemADVISOR's Regulatory Database; LRT = Lower Respiratory Tract, MARPOL 73/78 = International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution; MAK = Maximum Concentration Value in the Workplace; MEL = Maximum Exposure Limits; mg/m³ = : Concentration expressed in weight of substance per volume of air, mg/kg = Quantity of material, by weight, administered to a test subject, based on their body weight in kg, mw = marine water; NDSL = Non-Domestic Substances List (Canada); NE = Not Established; NFPA = National Fire Protection Association; NIOSH = National Institute for Occupational Safety and Health; NJTSR = New Jersey Trade Secret Registry; NOEC/NOEL = No Observed Effect Concentration / No Observed Effect Level; NTP = National Toxicology Program; NZ = New Zealand; OECD = Organization for Economic Co-operation and Development; OE-HPV = Occupational Exposure - High Production Volume; or = occasional release; OSHA = U.S. Occupational Safety and Health Administration; PAH = Polycyclic Aromatic Hydrocarbon; PBT = Persistent, Bioaccumulative and Toxic; PEL = Permissible Exposure Limit (OSHA); PH= Philippines; PICCS = Philippines Inventory of Chemicals and Chemical Substances; ppm = Concentration expressed in parts of material per million parts of air or water, PMCC = Pensky Martin Closed Cup; PNEC = Predicted No Effect Concentration; RCRA = Resource Conservation and Recovery; REACH = Registration Evaluation And Authorization Of Chemicals; RID = European Rail Transport; RRN = REACH Registration Number: RQ = Reportable Quantity; RTECS = Registry of Toxic Effects of Chemical Substances®; RTK = Right To Know; SARA = Superfund Amendments and Reauthorization Act; S* = Skin notation; SKIN_DES = Skin Designation; STEL = Short Term Exposure Limit (15 minutes); SCBA = Self-Contained Breathing Apparatus; SDWA = Safe Drinking Water Act; STOT = Specific Target Organ Toxicity, TDLo, = the lowest dose to cause a symptom, TSCA = Toxic Substance Control Act; TCLo = the lowest concentration to cause a symptom; TDo, LDLo, and LDo, or TC, TCo, LCLo, and LCo, the lowest dose (or



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concentration) to cause lethal or toxic effects, TDG = Transportation of Dangerous Goods; TLV = Threshold Limit Value (ACGIH); TRA = Targeted Risk Assessment; TSCA = Toxic Substances Control Act ; TWA = Time Weighted Average (8 hours); UEL = The highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source.; UN = United Nations; URT = Upper Respiratory Track, US = United States; UVCB = Unknown, of Variable Composition, or of Biological Origin; vPvB = very Persistent and very Bioaccumulative; WHMIS = Worker Hazardous Materials Information System (Canada)

Disclaimer

The information presented herein has been compiled from sources considered to be dependable and is accurate as of the date of preparation of this Safety Data Sheet. However, Seller does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. The information provided above, and the product, are furnished on the condition that the person receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use. In addition, no authorization is given nor implied to practice any patented invention without a license. All materials may present unknown hazards and should be used with caution. In addition, no responsibility can be assumed by the Seller for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices, or from any hazards inherent in the nature of the material. Seller assumes no responsibility for injury to Buyer or to third persons or any damage to any property. Buyer assumes all such risks.