




SAFETY DATA SHEET

SECTION 1.0	PRODUCT AND COMPANY IDENTIFICATION
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Product Identifier	UNINAP® 24000 AV
Synonyms	Heavy Pale Oil.
Recommended use (identified)	Not available.
Recommended restrictions	None known
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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Physical hazards	Not Classified	
Health hazards	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2B
OSHA defined hazards	Not classified	
GHS label elements		
Signal word	Warning	
Hazard statement	Causes skin and eye irritation.	



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Precautionary statement

Prevention	Use only outdoors or in a well-ventilated area. Avoid breathing mist or vapor. Wear protective gloves/clothing and eye/face protection. Wash hands thoroughly after handling
Response	Take off contaminated clothing and wash before reuse. If on skin: Wash with plenty of water. If skin irritation occurs, seek medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Storage	Store locked up. Store in a well-ventilated place. Keep container tightly closed.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulation

Hazard(s) not otherwise classified (HNOC) Not classified

SECTION 3.0	COMPOSITION/INFORMATION ON INGREDIENTS
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Mixtures

Chemical name	CAS Number	%
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	0 - 100
Distillates (petroleum), hydrotreated middle; gasoil unspecified	64742-46-7	0 - 100



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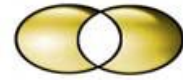
SECTION 4.0	FIRST AID MEASURES
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Description of necessary first aid measures

Inhalation	If symptomatic, move to fresh air. Get medical attention if symptoms persist
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.
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
Ingestion	First aid is normally not required. However, if greater than 1/2 liter (pint) ingested, seek medical attention..
Most important symptoms, acute and delayed	Causes eye irritation. Causes skin irritation.
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
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Suitable extinguishing media	Water spray. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂)
Unsuitable extinguishing media	Not available
Specific hazards arising from the chemical	Not applicable



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**Fire-fighting
equipment/instructions**

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**

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.

SECTION 7.0
HANDLING AND STORAGE
Precautions for safe handling

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

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



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Distillates (petroleum), hydrotreated middle; gasoil - unspecified (CAS 64742-46-7) PEL 5 mg/m³ Mist

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Distillates (petroleum) hydrotreated heavy naphthenic (CAS 64742-52-5)	TWA	5 mg/m ³	Inhalable fraction
Distillates (petroleum), hydrotreated middle; gasoil - unspecified (CAS 64742-46-7)	TWA	5 mg/m ³	Inhalable fraction

US NIOSH Pocket Guide to Chemical Hazards: Recommended exposure limit (REL)

Components	Type	Value	Form
Distillates (petroleum) hydrotreated heavy naphthenic (CAS 64742-52-5)	TWA	5 mg/m ³	Mist
Distillates (petroleum), hydrotreated middle; gasoil - unspecified (CAS 64742-46-7)	TWA	5 mg/m ³	Mist

US NIOSH Pocket Guide to Chemical Hazards: Short Term Exposure Limit (STEL)

Components	Type	Value	Form
Distillates (petroleum) hydrotreated heavy naphthenic (CAS 64742-52-5)	STEL	10 mg/m ³	Mist
Distillates (petroleum), hydrotreated middle; gasoil - unspecified (CAS 64742-46-7)	STEL	10 mg/m ³	Mist

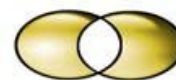
Biological limit values No biological exposure limits noted for the ingredient(s).

Exposure guidelines No exposure standards allocated

Appropriate engineering controls Ensure adequate ventilation, especially in confined areas.

Individual Protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).



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Skin protection

Hand protection

Wear protective gloves.

Other

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

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

Thermal hazards

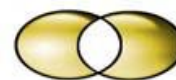
When material is heated, wear gloves to protect against thermal burns.

General hygiene consideration

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
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Appearance	Oily, viscous liquid
Physical state	Liquid
Form	Liquid
Color	Pale straw to amber.
Odor	Petroleum-like.
Odor threshold	Not available
pH	Not available
Melting point/freezing point	-49 - -16 °F (-45 - -26.67 °C)
Initial boiling point and boiling range	> 482 °F (> 250 °C)
Flash point	> 420.0 °F (> 215.6 °C) Pensky-Martens Closed Cup
Evaporation rate	Not available)



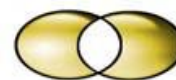
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Flammability (solid, gas)	Not available
Lower and upper explosive (flammable) limits	
Flammability limit – lower (%)	Not available
Flammability limit – upper (%)	Not available
Explosive limit - lower (%)	Not available
Explosive limit - upper (%)	Not available
Vapor pressure	0.16 kPa
Vapor density	Not available
Relative density	Not available
Solubility	
Solubility (water)	Insoluble
Partition coefficient n-octanol/water	>6
Auto-ignition temperature	> 518 °F (> 270 °C)
Decomposition temperature	> 536 °F (> 280 °C)
Viscosity	Not available
Other Information	
Density	940.00 kg/m ³ @ 59°F (15°C)
Kinematic viscosity	250 - 4200 cSt @ 104 °F (40 °C)

SECTION 10.0

STABILITY AND REACTIVITY

Reactivity	The product is 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.



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SECTION 11.0	TOXICOLOGICAL INFORMATION
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Information on likely routes of exposure

Ingestion

Under normal conditions of intended use, this material does not pose a risk to health

Inhalation

Under normal conditions of intended use, this material is not expected to be an inhalation hazard

Skin contact

Causes skin irritation.

Eye contact

Causes eye irritation

Symptoms related to the physical, chemical and toxicological characteristics

Causes skin and eye irritation.

Information on toxicological effects

Acute toxicity

Not assigned.

Skin Corrosion/irritation

Causes skin irritation

Serious eye/eye irritation damage

Causes eye irritation

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.

IARC Monographs. Overall Evaluation of Carcinogenicity

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

3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity

Not assigned.

Specific target organ toxicity - single exposure

Not assigned.

Specific target organ toxicity - repeated exposure

Not assigned

Aspiration hazard

Not assigned



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SECTION 12.0	ECOLOGICAL INFORMATION
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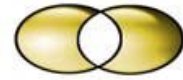
Ecotoxicity	This material has not been tested for environmental effects.
Persistence and degradability	No data available
Bioaccumulative potential	Has the potential to bioaccumulate.
Partition coefficient n-octanol / water (log Kow)	
UNINAP® 2200 AV	>6
Mobility in soil	Not available
Other adverse effects	Not available

SECTION 13.0	DISPOSAL CONSIDERATIONS
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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 RCRA waste under 40 CFR 261.
Hazardous disposal code	Not regulated
Waste from residues / unused products	Dispose in accordance with local regulations
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied

SECTION 14.0	TRANSPORT INFORMATION
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DOT	Not regulated as a hazardous material by DOT.
IATA	Not regulated as a dangerous good.
IMDG	Not regulated as a dangerous good.



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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 covered under MARPOL 73/78, Annex I.

SECTION 15.0

REGULATORY INFORMATION

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed

CERCLA Hazardous Substance List (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

No

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

Safe Drinking Water Act (SDWA)

Not regulated



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Food and Drug Administration (FDA)

Not regulated

US State Regulations

US. Massachusetts RTK - Substance List

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

Distillates (petroleum), hydrotreated middle; gasoil - unspecified (CAS 64742-46-7)

US. New Jersey Worker and Community Right-to-Know Act

Not regulated

US. Pennsylvania RTK - Hazardous Substances

Distillates (petroleum), hydrotreated middle; gasoil - unspecified (CAS 64742-46-7)

US. Rhode Island RTK

Not regulated

US. California Proposition 65

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed

International Inventories

<u>Country(s) or region</u>	<u>Inventory Name</u>	<u>On inventory (yes/no)*</u>
Australia	Australian Inventory of Chemical Substances (AICS)	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)	Yes
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



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

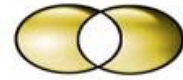
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

SECTION 16.0	OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION
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NFPA Ratings	Blue	Health	2
	Red	Flammability	1
	Yellow	Instability	0
	White	Special Hazard	

Abbreviations

ACGIH = American Conference of Governmental Industrial Hygienists; ADR = European Road Transport; AAICS = Australia Inventory of Chemical Substances; ATE = Acute Toxicity Estimation; AU = Australia; BCF = Bioconcentration Factor; BOD = Biochemical Oxygen Demand; C – Celsius, CA = Canada, CAS = Chemical Abstracts Service; CEILING = Ceiling Limit (15 minutes); CERCLA = The Comprehensive Environmental Response, Compensation, and Liability Act; COC = Cleveland Open Cup; CN = China; CPR= Controlled Products Regulations; CWA = Clean Water Act; DEA – Drug Enforcement Administration; DFG = Deutsche Forschungsgemeinschaft; DOT = Department of Transportation; DSL = Domestic Substances List (Canada); ECC = European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; ELINCS = European List of Notified Chemical Substances; ENCS = Japan Existing and New Chemical Substances; EPA = Environmental Protection Agency; EU = European Union; F = Fahrenheit; GHS = Globally Harmonized System of Classification and Labelling of Chemicals; HAPs = Hazardous Air Pollutants; IARC = International Agency for Research on Cancer; IATA = International Air Transport Association; IBC = Intermediate Bulk Container; ICAO = International Civil Aviation Organization; IDL = Ingredient Disclosure List; IDLH = Immediately Dangerous to Life and Health; IMDG = International Maritime Dangerous Goods; INSHT = National Institute for Health and Safety at Work; IOPC = International Oil Pollution Compensation; JP – Japan; , Kow = Octanol/water partition; LEL = Lower Explosive Limit; LOLI = List of Lists™ - ChemADVISOR's Regulatory Database; ; 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; 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; NTP = National Toxicology Program; NZ – New Zealand; OSHA = Occupational Safety and Health Administration; PAH = Polycyclic Aromatic Hydrocarbon; PEL = Permissible Exposure Limit (OSHA); PH= Philippines; PICCS = Philippines Inventory of Chemicals and Chemical Substances; RCRA = Resource Conservation and Recovery; RID = European Rail Transport; RETCS = Registry of Toxic Effects of Chemical Substances®; RTK = Right To Know; SARA = Superfund Amendments and Reauthorization Act; STEL = Short Term Exposure Limit (15 minutes); SCBA = Self-Contained Breathing Apparatus; SDWA = Safe Drinking Water Act; TDG = Transportation of Dangerous Goods; TLV = Threshold Limit Value (ACGIH); TSCA = Toxic Substances Control Act Section 8(b) Inventory; TWA = Time Weighted Average (8 hours); UEL = Upper Explosive Limit; UN = United Nations; US = United States; WHMIS = Worker Hazardous Materials Information System (Canada)



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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.