

Version 1.3 Revision Date: 11/13/2023

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : KEROSENE

Recommended use of the chemical and restrictions on use

Recommended use : Industrial Chemical Restrictions on use : None known.

Manufacturer or supplier's details

Company : Univar Solutions USA

Address 3075 Highland Pkwy Suite 200

Downers Grove, IL 60515 United States of America (USA)

Emergency telephone number:

Transport North America: CHEMTREC (1-800-424-9300) CHEMTREC INTERNATIONAL Tel # 703-527-3887

Additional Information: : Responsible Party: Product Compliance Department

E-mail: SDSNA@univarsolutions.com SDS Requests: 1-855-429-2661 Website: www.univarsolutions.com

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 3

Skin irritation : Category 2

Specific target organ toxicity

- single exposure

: Category 3 (Central nervous system)

Aspiration hazard : Category 1

GHS label elements

Hazard pictograms







Signal word : Danger

Hazard statements : H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

Precautionary statements : **Prevention:**

P210 Keep away from heat/ sparks/ open flames/ hot surfaces.

No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ ventilating/ lighting equip-

ment.

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P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge. P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ eye protection/ face protection.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

P331 Do NOT induce vomiting.

P332 + P313 If skin irritation occurs: Get medical advice/ attention

P362 Take off contaminated clothing and wash before reuse. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

Hazardous components

CAS-No.	Chemical name	Weight percent
64742-47-8 /	Distillates (pet), hydrotreated light AND/OR Kero-	90 - 100
64742-81-0 / 8008-	sine (petroleum), hydrodesulfurized AND/OR	
20-6	Kerosine (petroleum)	
91-20-3	**Naphthalene	1 - 5

Actual concentration is withheld as a trade secret

Any Concentration shown as a range is due to batch variation.

Special Notes: : ** Other substances in the product which may present a

health or environmental hazard.

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.

Show this safety data sheet to the doctor in attendance. Symptoms of poisoning may appear several hours later.

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Do not leave the victim unattended.

If inhaled : Consult a physician after significant exposure.

If unconscious, place in recovery position and seek medical

advice.

In case of skin contact : If skin irritation persists, call a physician.

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

Do NOT induce vomiting.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician. Take victim immediately to hospital.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Alcohol-resistant foam

Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

Specific hazards during fire-

fighting

: High volume water jet

: Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion prod-

ucts

Carbon monoxide, carbon dioxide and unburned hydrocar-

bons (smoke).

Hazardous decomposition products due to incomplete com-

bustion

Nitrogen oxides (NOx)

sulfur oxides

Specific extinguishing meth-

Further information

ods

: Use a water spray to cool fully closed containers.

: 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 sepa-

rately in closed containments.

Special protective equipment

for firefighters

Wear self-contained breathing apparatus for firefighting if nec-

essary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emer-

gency procedures

: Use personal protective equipment.

Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

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Beware of vapours accumulating to form explosive concentra-

tions. Vapours 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 and materials for containment and 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).

SECTION 7. HANDLING AND STORAGE

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 vapours). Keep away from open flames, hot surfaces and sources of ignition.

Advice on safe handling : Avoid formation of aerosol.

Do not breathe vapours/dust.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the ap-

plication 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.

Conditions for safe storage

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.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

CAS-No.	Components	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
64742-47-8 / 64742-81-0 / 8008-20-6	Distillates (pet), hydrotreated light AND/OR Kerosine (petroleum), hydrodesulfurized AND/OR Kerosine (petroleum)	TWA	100 mg/m3	NIOSH REL
91-20-3	**Naphthalene	TWA	10 ppm	ACGIH

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TWA	10 ppm 50 mg/m3	NIOSH REL
ST	15 ppm 75 mg/m3	NIOSH REL
TWA	10 ppm 50 mg/m3	OSHA Z-1
TWA	10 ppm 50 mg/m3	OSHA P0
STEL	15 ppm 75 mg/m3	OSHA P0
PEL	0.1 ppm 0.5 mg/m3	CAL PEL

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally re-

quired.

In the case of vapour formation use a respirator with an ap-

proved filter.

Hand protection

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Skin and body protection : Impervious clothing

Choose body protection according to the amount and concen-

tration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : clear, light yellow, light green

Odour : Kerosene-like odor Odour Threshold : No data available pH : No data available

Freezing Point (Melting point/freezing point)

: < -40 °C (< -40 °F)

Boiling Point (Boiling

: 149 - 300 °C (300 - 572 °F)

point/boiling range)

Flash point

: 38 °C (100 °F)

Method: Tag closed cup

Evaporation rate : < 1

(Butyl Acetate = 1)

Flammability (solid, gas) : No data available

Upper explosion limit : 7.0 %(V)

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Lower explosion limit : 0.7 %(V)

Vapour pressure : 0.4 mmHg Relative vapour density : > 4.5(Air = 1.0)

Relative density : 0.775 - 0.840 @ 20 °C (68 °F)

: 0.8069 g/cm3 @ 20 °C (68 °F) Density

Solubility(ies)

: insoluble Water solubility

Solubility in other solvents : No data available Partition coefficient: n-: No data available

octanol/water

Auto-ignition temperature : 210 °C

Thermal decomposition : No data available

Viscosity

Viscosity, kinematic : 1 - 2.4 mm2/s @ 40 °C (104 °F)

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Stable under recommended storage conditions.

Chemical stability : Stable under normal conditions. : No hazards to be specially mentioned.

Possibility of hazardous reactions

Conditions to avoid

: Keep away from heat, flame, sparks and other ignition

sources.

Incompatible materials : Strong oxidizing agents

Strong reducing agents

SECTION 11. TOXICOLOGICAL INFORMATION

Skin corrosion/irritation

Components:

64742-47-8 / 64742-81-0 / 8008-20-6:

Species: Rabbit Exposure time: 24 h Result: Irritating to skin.

Serious eye damage/eye irritation

Components:

64742-47-8 / 64742-81-0 / 8008-20-6:

Species: Rabbit

Result: Irritating to eyes.

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Carcinogenicity

IARC Group 2B: Possibly carcinogenic to humans

91-20-3 **Naphthalene

OSHANo component of this product present at levels greater than or

equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP Reasonably anticipated to be a human carcinogen

91-20-3 **Naphthalene

STOT - single exposure

Components:

64742-47-8 / 64742-81-0 / 8008-20-6:

Exposure routes: Inhalation

Target Organs: Central nervous system

Assessment: May cause drowsiness or dizziness., The substance or mixture is classified as

specific target organ toxicant, single exposure, category 3 with narcotic effects.

Aspiration toxicity

Components:

64742-47-8 / 64742-81-0 / 8008-20-6:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

Concentrations substantially above the TLV value may cause narcotic effects.

Solvents may degrease the skin.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

64742-47-8 / 64742-81-0 / 8008-20-6:

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): 25 mg/l

Exposure time: 96 h Test Type: static test

Toxicity to daphnia and other

aquatic invertebrates

: EL50 (Daphnia magna (Water flea)): 1.4 mg/l

Exposure time: 48 h Test Type: static test

Toxicity to algae : EL50 (Pseudokirchneriella subcapitata (green algae)): 1 mg/l

End point: Growth rate

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Exposure time: 72 h
Test Type: static test

Acute aquatic toxicity- As-

sessment

: Toxic to aquatic life.

Chronic aquatic toxicity- As-

sessment

: Toxic to aquatic life with long lasting effects.

Persistence and degradability

Components:

64742-47-8 / 64742-81-0 / 8008-20-6:

Biodegradability : aerobic

Inoculum: activated sludge Biodegradation: 61 % Exposure time: 28 d

Remarks: Readily biodegradable

Bioaccumulative potential

Components:

91-20-3:

Partition coefficient: n-

: log Pow: 3.4 (25 °C)

octanol/water

pH: 7 - 7.5

Mobility in soil

No data available

Other adverse effects

Product:

Ozone-Depletion Potential

: Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I

Substances

Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological infor-

mation

An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Toxic to aquatic life with long lasting effects.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of in accordance with all applicable local, state and

federal regulations.

For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Uni-

var Solutions ChemCare: 1-800-637-7922

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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.

SECTION 14. TRANSPORT INFORMATION

DOT (Department of Transportation):

UN1223, Kerosene, 3, III

IATA (International Air Transport Association):

UN1223, Kerosene, 3, III

IMDG (International Maritime Dangerous Goods):

UN1223, KEROSENE, 3, III, Marine Pollutant (MIXTURE OF PETROLEUM DISTILLATES) , Flash Point:38 $^{\circ}$ C(100 $^{\circ}$ F)

Special Notes: : The flash point for this material is greater than 100 F (38 C).

Therefore, in accordance with 49 CFR 173.150(f) non-bulk containers (<450L or <119 gallon capacity) of this material may be shipped as non-regulated when transported solely by land, as long as the material is not a hazardous waste, a marine pollutant, or specifically listed as a hazardous substance.

SECTION 15. REGULATORY INFORMATION

WHMIS Classification : B3: Combustible Liquid

D2B: Toxic Material Causing Other Toxic Effects

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
**Naphthalene	91-20-3	100	3333
**Benzene	71-43-2	10	*

^{*:} Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)

Skin corrosion or irritation

Specific target organ toxicity (single or repeated exposure)

Aspiration hazard

SARA 302 : No chemicals in this material are subject to the reporting re-

quirements of SARA Title III, Section 302.

SARA 313 : The following components are subject to reporting levels es-

tablished by SARA Title III, Section 313:

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91-20-3

**Naphthalene

Clean Air Act

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61):

91-20-3

**Naphthalene

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

91-20-3 **Naphthalene 108-88-3 **Toluene 71-43-2 **Benzene

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

91-20-3 **Naphthalene 108-88-3 **Toluene 71-43-2 **Benzene

This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307

91-20-3 **Naphthalene

Massachusetts Right To Know

64742-47-8 / Distillates (pet), hydrotreated light AND/OR Kerosine (petroleum), hydrodesulfurized

8008-20-6 AND/OR Kerosine (petroleum)

91-20-3 **Naphthalene 71-43-2 **Benzene

Pennsylvania Right To Know

64742-47-8 / Distillates (pet), hydrotreated light AND/OR 64742-81-0 / Kerosine (petroleum), hydrodesulfurized

8008-20-6 AND/OR Kerosine (petroleum)

91-20-3 **Naphthalene 108-88-3 **Toluene 71-43-2 **Benzene

California Prop 65

WARNING: This product can expose you to chemicals including **Naphthalene, **Benzene, which is/are known to the State of California to cause cancer, and **Toluene, **Benzene, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

The components of this product are reported in the following inventories:

TSCA : On the inventory, or in compliance with the inventory

AICS : not determined

DSL : On the inventory, or in compliance with the inventory

NZIoC : not determined

ENCS : not determined

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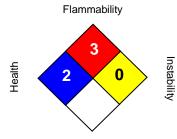
KECI: not determined

PICCS : not determined

IECSC : not determined

SECTION16. OTHER INFORMATION

NFPA:



Special hazard

HMIS III:

HEALTH	2
FLAMMABILITY	2
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight, 2 = Moderate, 3 = High 4 = Extreme, * = Chronic

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Univar Solutions Product Compliance Department (1-855-429-2661) SDSNA@univarsolutions.com.

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Material number:

16197507, 16203739, 16187911, 16174763, 16177873, 16170236, 16154776, 16156581, 16156294, 16154994, 16154927, 16152762, 16155039, 16140758

Key or legend to abbreviations and acronyms used in the safety data sheet			
ACGIH	American Conference of Govern-	LD50	Lethal Dose 50%
	ment Industrial Hygienists		
AICS	Australia, Inventory of Chemical	LOAEL	Lowest Observed Adverse Effect
	Substances		Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substanc-	NIOSH	National Institute for Occupational
	es List		Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZloC	New Zealand Inventory of Chemi-
			cals

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			T
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenar-	OSHA	Occupational Safety & Health
	io Tool		Administration
EOSCA	European Oilfield Specialty Chem-	PEL	Permissible Exposure Limit
	icals Association		
EINECS	European Inventory of Existing	PICCS	Philippines Inventory of Commer-
	Chemical Substances		cial 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 Inventory	UVCB	Unknown or Variable Composi-
			tion, Complex Reaction Products,
			and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials
			Information System
LC50	Lethal Concentration 50%		

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