

Safety Data Sheet

acc. to OSHA HCS

Printing date 09/27/2024

Reviewed on 09/27/2024

1 Identification

- **Product identifier**
- **Trade name:** Kerosene, low odor
- **Article number:** 26945
- **CAS Number:**
8008-20-6
- **EC number:**
232-366-4
- **Index number:**
649-404-00-4
- **Application of the substance / the mixture:** Laboratory chemicals
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
SERVA Electrophoresis GmbH
Carl-Benz-Str. 7
D-69115 Heidelberg
Tel.: +49 6221 13840-0
FAX: +49 6221 13840-10
msds.info@serva.de
- **Information department:** Product Safety Department Tel.: +49 6221 13840-35
- **Emergency telephone number:**
Emergency medical information in case of poisoning
Poison Information Center Mainz-Tel: +49 (0) 6131 19240
(Advice in German and English)

SERVA
serving scientists

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02

Flammable Liquids 3

H226 Flammable liquid and vapor.



GHS08

Aspiration Hazard 1

H304 May be fatal if swallowed and enters airways.



GHS07

Skin Irritation 2

H315 Causes skin irritation.

Specific Target Organ Toxicity - Single Exposure 3 H336 May cause drowsiness or dizziness.

- **Label elements**

- **GHS label elements**

The substance is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms:** GHS02, GHS07, GHS08

- **Signal word:** Danger

- **Hazard statements:**

Flammable liquid and vapor.

Causes skin irritation.

May cause drowsiness or dizziness.

May be fatal if swallowed and enters airways.

(Contd. on page 2)

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 09/27/2024

Reviewed on 09/27/2024

Trade name: Kerosene, low odor

(Contd. of page 1)

- **Precautionary statements**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Avoid release to the environment.

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

If swallowed: Immediately call a poison center/doctor.

If on skin: Wash with plenty of soap and water.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

- **Classification system:**

- **NFPA ratings (scale 0 - 4)**



Health = 1

Fire = 2

Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



Health = 1

Fire = 2

Reactivity = 0

- **Other hazards**

- **Results of PBT and vPvB assessment:**

· **PBT:** Concentration of substances classified as PBT: < 0,1%

· **vPvB:** concentration of substances classified as vPvB: < 0,1%

3 Composition/information on ingredients

- **Chemical characterization: Substances**

- **CAS No. Description:**

8008-20-6 Kerosine (petroleum)

- **Identification number(s):**

· **EC number:** 232-366-4

· **Index number:** 649-404-00-4

4 First-aid measures

- **Description of first aid measures**

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

- **After skin contact:**

Wash off immediately with soap and water and rinse thoroughly. In case of complaints, consult a doctor.

- **After eye contact:**

Rinse opened eye for several minutes with running water. Remove existing contact lenses, if possible, and continue rinsing. In case of complaints, consult an ophthalmologist.

- **After swallowing:**

Rinse out mouth. Call a doctor immediately.

Do not induce vomiting - may enter the respiratory tract (risk of possible aspiration)!

· **Most important symptoms and effects, both acute and delayed** No further relevant information available.

· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**

- **Suitable extinguishing agents:**

CO₂ extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- **Special hazards arising from the substance or mixture**

Flammable substance, vapors are heavier than air and spread over the ground.

(Contd. on page 3)

Safety Data Sheet

acc. to OSHA HCS

Printing date 09/27/2024

Reviewed on 09/27/2024

Trade name: Kerosene, low odor

(Contd. of page 2)

Vapors may form flammable and explosive mixtures with air.

Formation of hazardous vapors and gases possible during heating or in case of fire.

In case of fire, the following can be released:

Carbon monoxide and carbon dioxide

· **Advice for firefighters**

· **Protective equipment:** Wear self-contained breathing apparatus.

· **Additional information**

Collect contaminated fire fighting water separately. It must not enter the sewage system.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

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

Wear protective clothing.

Ensure adequate ventilation

Particular danger of slipping on leaked/spilled product.

Keep away from ignition sources

Avoid contact with eyes and skin.

· **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

· **Methods and material for containment and cleaning up**

Dispose contaminated material as waste according to section 13.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

· **Protective Action Criteria for Chemicals**

· **PAC-1:** Substance is not listed.

· **PAC-2:** Substance is not listed.

· **PAC-3:** Substance is not listed.

· **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

· **Precautions for safe handling:** Ensure good ventilation/exhaustion at the workplace.

· **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

· **Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.

· **Information about storage in one common storage facility:** Store away from oxidizing agents.

· **Further information about storage conditions:** Store container tightly closed and dry.

· **Specific end use(s):** No further relevant information available.

8 Exposure controls/personal protection

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

8008-20-6 Kerosine (petroleum) (80-100%)

REL Long-term value: 100 mg/m³

Kerosine only

TLV Long-term value: 200 mg/m³

as total hydrocarbon vapor; Skin; A3

· **Additional information:** The lists that were valid during the creation were used as basis.

(Contd. on page 4)

Safety Data Sheet

acc. to OSHA HCS

Printing date 09/27/2024

Reviewed on 09/27/2024

Trade name: **Kerosene, low odor**

(Contd. of page 3)

- **Exposure controls**
- **Additional information about design of technical systems:** No further data; see section 7.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
 - Keep away from foodstuffs, beverages and feed.
 - Store protective clothing separately.
 - Immediately remove all soiled and contaminated clothing.
 - Avoid contact with the eyes and skin.
 - Wash hands before breaks and at the end of work.
- **Breathing equipment:**
 - Short term filter device:
 - Filter A/P3
- **Protection of hands:**
 - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
 - Protective gloves
 - Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
 - Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves:**
 - The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Penetration time of glove material:**
 - The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**
 - Fluorocarbon rubber (Viton)
 - Nitrile rubber, NBR
- **Eye protection:** Safety glasses
- **Body protection:** Protective work clothing

9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information:**
- **Color:** Colorless
- **Odor:** Characteristic
- **Odor threshold:** Not determined.
- **Melting point/Melting range:** No information available
- **Boiling point/Boiling range:** 175-325 °C (347-617 °F)
- **Flammability (solid, gaseous):** Flammable liquid and vapor according to CLP Regulation (EU) No. 1272/2008: Flam. Liq. 3 H226
- **Explosion limits:**
- **Lower:** 0.7 Vol %
- **Upper:** 5 Vol %
- **Flash point:** >38 °C (>100.4 °F)
- **Decomposition temperature:** No information available
- **pH-value:** No information available
- **Viscosity:**
- **Kinematic viscosity:** No information available
- **Dynamic viscosity:** No information available
- **Solubility in / Miscibility with:**
- **Water:** Not miscible or difficult to mix.
- **Partition coefficient (n-octanol/water):** No information available
- **Vapor pressure at 20 °C (68 °F):** 0.31 hPa (0.2 mm Hg)

(Contd. on page 5)

Safety Data Sheet

acc. to OSHA HCS

Printing date 09/27/2024

Reviewed on 09/27/2024

Trade name: Kerosene, low odor

(Contd. of page 4)

- **Vapor pressure:**
- **Density at 20 °C (68 °F):** 0.8 g/cm³ (6.676 lbs/gal)
- **Relative density:** No information available

- **Other information**
- **Appearance:**
- **Form:** Liquid
- **Important information on protection of health and environment, and on safety:**
- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

10 Stability and reactivity

- **Reactivity:** No further relevant information available.
- **Chemical stability:**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** Vapors may form flammable and explosive mixtures with air.
- **Conditions to avoid:** Avoid high temperatures, flames, sparks
- **Incompatible materials:** Avoid contact with oxidizing agents.
- **Hazardous decomposition products:** In case of fire: see section 5

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:** Based on available data, the classification criteria are not met.
- **on the skin:** Causes skin irritation.
- **Specific target organ toxicity - single exposure:** May cause drowsiness or dizziness.
- **Aspiration hazard:** May be fatal if swallowed and enters airways.
- **Additional toxicological information:**
- **Carcinogenic categories**
- **IARC (International Agency for Research on Cancer) 2B**
- **NTP (National Toxicology Program) Substance is not listed.**
- **OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.**

12 Ecological information

- **Toxicity:**
- **Aquatic toxicity:** NOEC (*Daphnia magna*, 21 d): 0.48 mg/l
- **Persistence and degradability:** No further relevant information available.
- **Bioaccumulative potential:** No further relevant information available.
- **Mobility in soil:** No further relevant information available.
- **Results of PBT and vPvB assessment:**
- **PBT:** Concentration of substances classified as PBT: < 0.1%
- **vPvB:** Concentration of substances classified as vPvB: < 0.1%
- **Other adverse effects:**
- **Additional ecological information:**
- **General notes:**
- Do not allow product to reach ground water, water course or sewage system.
- Water hazard class 2 (Self-assessment): hazardous for water

US

(Contd. on page 6)

Safety Data Sheet

acc. to OSHA HCS

Printing date 09/27/2024

Reviewed on 09/27/2024





Trade name: **Kerosene, low odor**

(Contd. of page 5)

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Dispose of in accordance with official regulations.
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:**
Uncleaned packaging must be disposed of in the same way as the product in accordance with official regulations.

14 Transport information

- **UN-Number**
· **DOT, ADR, IMDG, IATA** UN1223
- **UN proper shipping name**
· **DOT** Kerosene
· **ADR** 1223 KEROSENE, ENVIRONMENTALLY HAZARDOUS
· **IMDG, IATA** KEROSENE
- **Transport hazard class(es)**
· **DOT**

· **Class** 3 Flammable liquids
· **Label** 3
- **ADR, IMDG**
 
· **Class:** 3 Flammable liquids
· **Label:** 3
- **IATA**

· **Class** 3 Flammable liquids
· **Label** 3
- **Packing group**
· **DOT, ADR, IMDG, IATA** III
- **Environmental hazards** Environmentally hazardous substance, liquid
· **Marine pollutant:** Symbol (fish and tree)
· **Special marking (ADR):** Symbol (fish and tree)
- **Special precautions for user** Warning: Flammable liquids
· **Hazard identification number (Kemler code):** 30
· **EMS Number:** F-E,S-E

(Contd. on page 7)

Safety Data Sheet

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Printing date 09/27/2024

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Trade name: Kerosene, low odor

(Contd. of page 6)

· Stowage Category	A
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 1223 KEROSENE, 3, III, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
No further relevant information available.
- **Section 355 (extremely hazardous substances):** Substance is not listed.
- **Section 313 (Specific toxic chemical listings):** Substance is not listed.
- **TSCA (Toxic Substances Control Act):** ACTIVE
- **Hazardous Air Pollutants** Substance is not listed.
- **Proposition 65** Substance is not listed.
- **Chemicals known to cause cancer:** Substance is not listed.
- **Chemicals known to cause reproductive toxicity for females:** Substance is not listed.
- **Chemicals known to cause reproductive toxicity for males:** Substance is not listed.
- **Chemicals known to cause developmental toxicity:** Substance is not listed.
- **Carcinogenicity categories**
- **EPA (Environmental Protection Agency)** Substance is not listed.
- **TLV (Threshold Limit Value)** A3
- **NIOSH-Ca (National Institute for Occupational Safety and Health)** Substance is not listed.
- **GHS label elements**
The substance is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms** GHS02, GHS07, GHS08
- **Signal word** Danger
- **Hazard statements**
Flammable liquid and vapor.
Causes skin irritation.
May cause drowsiness or dizziness.
May be fatal if swallowed and enters airways.
- **Precautionary statements**
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.
If swallowed: Immediately call a poison center/doctor.
If on skin: Wash with plenty of soap and water.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

US

(Contd. on page 8)

Safety Data Sheet

acc. to OSHA HCS

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Trade name: **Kerosene, low odor**

(Contd. of page 7)

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing SDS:** Product Safety Department

· **Contact:** +49 6221 13840-35

· **Date of preparation / last revision** 09/27/2024 / -

· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

PBT: persistent, bioaccumulative, toxic substance (REACH)

vPvB: very persistent, very bioaccumulative substance (REACH)

REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals

CLP: Regulation on classification, labelling and packaging of substances and mixtures

bw: body weight

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Flammable Liquids 3: Flammable liquids – Category 3

Skin Irritation 2: Skin corrosion/irritation – Category 2

Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3

Aspiration Hazard 1: Aspiration hazard – Category 1

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