



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 6.7

Revision Date 03.01.2024

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GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifiers

Product name : Sulfur in Odourless Kerosene, IP 497,  
Calibration Set A

Product Number : IP497KRSUA

Brand : Supelco

REACH No. : This product is a mixture. REACH Registration Number see section 3.

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

### 1.3

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### 1.4 Emergency telephone

Emergency Phone # : 000 800 1007 141 (CHEMTREC)

This is a summary SDS for a kit. For the full SDS for each of the components listed in section 16 please visit our website.

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

|                                                                                        |                                                     |
|----------------------------------------------------------------------------------------|-----------------------------------------------------|
| Skin irritation, (Category 2)                                                          | H315: Causes skin irritation.                       |
| Specific target organ toxicity - single exposure, (Category 3), Central nervous system | H336: May cause drowsiness or dizziness.            |
| Aspiration hazard, (Category 1)                                                        | H304: May be fatal if swallowed and enters airways. |

Long-term (chronic) aquatic hazard, (Category 2)

H411: Toxic to aquatic life with long lasting effects.

## 2.2 Label elements

### Labelling according Regulation (EC) No 1272/2008

Pictogram

|                                |                                                         |
|--------------------------------|---------------------------------------------------------|
| Signal Word                    | Danger                                                  |
| Hazard Statements              |                                                         |
| H304                           | May be fatal if swallowed and enters airways.           |
| H315                           | Causes skin irritation.                                 |
| H336                           | May cause drowsiness or dizziness.                      |
| H411                           | Toxic to aquatic life with long lasting effects.        |
| Precautionary Statements       |                                                         |
| P261                           | Avoid breathing mist or vapors.                         |
| P264                           | Wash skin thoroughly after handling.                    |
| P273                           | Avoid release to the environment.                       |
| P301 + P310                    | IF SWALLOWED: Immediately call a POISON CENTER/ doctor. |
| P302 + P352                    | IF ON SKIN: Wash with plenty of water.                  |
| P331                           | Do NOT induce vomiting.                                 |
| Supplemental Hazard Statements | none                                                    |

### Reduced Labeling (<= 125 ml)

Pictogram

|                                |                                                         |
|--------------------------------|---------------------------------------------------------|
| Signal Word                    | Danger                                                  |
| Hazard Statements              |                                                         |
| H304                           | May be fatal if swallowed and enters airways.           |
| Precautionary Statements       |                                                         |
| P301 + P310                    | IF SWALLOWED: Immediately call a POISON CENTER/ doctor. |
| P331                           | Do NOT induce vomiting.                                 |
| Supplemental Hazard Statements | none                                                    |

## 2.3 Other hazards - none

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## SECTION 3: Composition/information on ingredients

Refer to component SDS

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## SECTION 4: First aid measures

Refer to component SDS

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## **SECTION 5: Firefighting measures**

Refer to component SDS

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## **SECTION 6: Accidental release measures**

Refer to component SDS

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## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

#### **Advice on safe handling**

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

#### **Advice on protection against fire and explosion**

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

#### **Hygiene measures**

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

For precautions see section 2.2.

### **7.2 Conditions for safe storage, including any incompatibilities**

#### **Storage conditions**

Tightly closed.

#### **Storage class**

Storage class (TRGS 510): 10: Combustible liquids

### **7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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## **SECTION 8: Exposure controls/personal protection**

Refer to component SDS

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## **SECTION 9: Physical and chemical properties**

Refer to component SDS

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## **SECTION 10: Stability and reactivity**

Refer to component SDS

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**SECTION 11: Toxicological information**

Refer to component SDS

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**SECTION 12: Ecological information**

Refer to component SDS

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**SECTION 13: Disposal considerations**

Refer to component SDS

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**SECTION 14: Transport information****14.1 UN number**

ADR/RID: 3082

IMDG: 3082

IATA: 3334

**14.2 UN proper shipping name**

ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Odourless Kerosene, Dibutyl sulphide)

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Odourless Kerosene, Dibutyl sulphide)

IATA: Aviation regulated liquid, n.o.s. (Odourless Kerosene, Dibutyl sulphide)

**14.3 Transport hazard class(es)**

ADR/RID: 9

IMDG: 9

IATA: 9

**14.4 Packaging group**

ADR/RID: III

IMDG: III

IATA: III

**14.5 Environmental hazards**

ADR/RID: yes

IMDG Marine pollutant: yes

IATA: no

**14.6 Special precautions for user**

Tunnel restriction code : (-)

**Further information**

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

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**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Refer to component SDS

## 15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

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### SECTION 16: Other information

#### Kit Components:

|                                                 |         |         |                                                                                  |
|-------------------------------------------------|---------|---------|----------------------------------------------------------------------------------|
| Sulfur in Odourless Kerosene, Blank.            | Supelco | KRSUBLK | Skin Irrit. 2; STOT SE 3; Asp. Tox. 1; Aquatic Chronic 2; H304, H315, H336, H411 |
| Sulfur in Odourless Kerosene, 0.0050 % (50ppm)  | Supelco | KRSU04  | Skin Irrit. 2; STOT SE 3; Asp. Tox. 1; Aquatic Chronic 2; H304, H315, H336, H411 |
| Sulfur in Odourless Kerosene, 0.0100 % (100ppm) | Supelco | KRSU05  | Skin Irrit. 2; STOT SE 3; Asp. Tox. 1; Aquatic Chronic 2; H304, H315, H336, H411 |
| Sulfur in Odourless Kerosene, 0.0250 % (250ppm) | Supelco | KRSU06  | Skin Irrit. 2; STOT SE 3; Asp. Tox. 1; Aquatic Chronic 2; H304, H315, H336, H411 |
| Sulfur in Odourless Kerosene, 0.0300 % (300ppm) | Supelco | KRSU07  | Skin Irrit. 2; STOT SE 3; Asp. Tox. 1; Aquatic Chronic 2; H304, H315, H336, H411 |
| Sulfur in Odourless Kerosene, 0.0500 % (500ppm) | Supelco | KRSU08  | Skin Irrit. 2; STOT SE 3; Asp. Tox. 1; Aquatic Chronic 2; H304, H315, H336, H411 |

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## Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

### Classification of the mixture

|                  |      |
|------------------|------|
| Skin Irrit.2     | H315 |
| STOT SE3         | H336 |
| Asp. Tox.1       | H304 |
| Aquatic Chronic2 | H411 |

### Classification procedure:

|                    |
|--------------------|
| Calculation method |
| Calculation method |
| Calculation method |
| Calculation method |

**Further information**

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.sigma-aldrich.com](http://www.sigma-aldrich.com) and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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## Kit Components:

| <b>Sulfur in Odourless Kerosene, Blank.</b> |           |             |                                                                                                                                                           |                                                                                                                                                                                                                               |                          |
|---------------------------------------------|-----------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Product identifier                          | Pictogram | Signal Word | Hazard Statements                                                                                                                                         | Precautionary Statements                                                                                                                                                                                                      | Supplemental information |
| Supelco - KRSUBLK                           |           | Danger      | May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects. | Avoid breathing mist or vapors. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Wash skin thoroughly after handling. IF ON SKIN: Wash with plenty of water. Avoid release to the environment. Do NOT induce vomiting. |                          |

| <b>Sulfur in Odourless Kerosene, 0.0050 % (50ppm)</b> |           |             |                                                                                                                                                           |                                                                                                                                                                                                                               |                          |
|-------------------------------------------------------|-----------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Product identifier                                    | Pictogram | Signal Word | Hazard Statements                                                                                                                                         | Precautionary Statements                                                                                                                                                                                                      | Supplemental information |
| Supelco - KRSU04                                      |           | Danger      | May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects. | Avoid breathing mist or vapors. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Wash skin thoroughly after handling. IF ON SKIN: Wash with plenty of water. Avoid release to the environment. Do NOT induce vomiting. |                          |

| <b>Sulfur in Odourless Kerosene, 0.0100 % (100ppm)</b> |           |             |                                                                                                                                                           |                                                                                                                                                                                                                               |                          |
|--------------------------------------------------------|-----------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Product identifier                                     | Pictogram | Signal Word | Hazard Statements                                                                                                                                         | Precautionary Statements                                                                                                                                                                                                      | Supplemental information |
| Supelco - KRSU05                                       |           | Danger      | May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects. | Avoid breathing mist or vapors. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Wash skin thoroughly after handling. IF ON SKIN: Wash with plenty of water. Avoid release to the environment. Do NOT induce vomiting. |                          |

| <b>Sulfur in Odourless Kerosene, 0.0250 % (250ppm)</b> |           |             |                                                                                                                                                           |                                                                                                                                                                                                                               |                          |
|--------------------------------------------------------|-----------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Product identifier                                     | Pictogram | Signal Word | Hazard Statements                                                                                                                                         | Precautionary Statements                                                                                                                                                                                                      | Supplemental information |
| Supelco - KRSU06                                       |           | Danger      | May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects. | Avoid breathing mist or vapors. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Wash skin thoroughly after handling. IF ON SKIN: Wash with plenty of water. Avoid release to the environment. Do NOT induce vomiting. |                          |

| <b>Sulfur in Odourless Kerosene, 0.0300 % (300ppm)</b> |           |             |                                                                                                          |                                                                                                                    |                          |
|--------------------------------------------------------|-----------|-------------|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|--------------------------|
| Product identifier                                     | Pictogram | Signal Word | Hazard Statements                                                                                        | Precautionary Statements                                                                                           | Supplemental information |
| Supelco - KRSU07                                       |           | Danger      | May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness. | Avoid breathing mist or vapors. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Wash skin thoroughly after |                          |

|  |  |  |                                                  |                                                                                                            |  |
|--|--|--|--------------------------------------------------|------------------------------------------------------------------------------------------------------------|--|
|  |  |  | Toxic to aquatic life with long lasting effects. | handling. IF ON SKIN: Wash with plenty of water. Avoid release to the environment. Do NOT induce vomiting. |  |
|--|--|--|--------------------------------------------------|------------------------------------------------------------------------------------------------------------|--|

**Sulfur in Odourless Kerosene, 0.0500 % (500ppm)**

| Product identifier | Pictogram | Signal Word | Hazard Statements                                                                                                                                         | Precautionary Statements                                                                                                                                                                                                      | Supplemental information |
|--------------------|-----------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Supelco - KRSU08   |           | Danger      | May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects. | Avoid breathing mist or vapors. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Wash skin thoroughly after handling. IF ON SKIN: Wash with plenty of water. Avoid release to the environment. Do NOT induce vomiting. |                          |