

Creation Date 21-May-2012

Revision Date 02-Feb-2024

Revision Number 4

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

|                           |                                 |
|---------------------------|---------------------------------|
| Product Description:      | <u>Ethyl vinyl ketone</u>       |
| Cat No. :                 | <b>L06829</b>                   |
| Synonyms                  | EVK                             |
| CAS No                    | 1629-58-9                       |
| EC No                     | 204-881-4                       |
| Molecular Formula         | C <sub>5</sub> H <sub>8</sub> O |
| REACH registration number | -                               |

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

|                      |                          |
|----------------------|--------------------------|
| Recommended Use      | Laboratory chemicals.    |
| Uses advised against | No Information available |

### 1.3. Details of the supplier of the safety data sheet

#### Company

Thermo Fisher (Kandel) GmbH  
Erlenbachweg 2, 76870 Kandel, Germany  
Tel: +49 (0) 721 84007 280  
Fax: +49 (0) 721 84007 300

**Swiss distributor** - Fisher Scientific AG  
Neuhofstrasse 11, CH 4153 Reinach  
Tel: +41 (0) 56 618 41 11  
<https://www.fishersci.ch/ch/en/customer-help-support/forms/email-us.html>

E-mail address begel.sdsdesk@thermofisher.com

### 1.4. Emergency telephone number

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11  
Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99  
**CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

customers in Switzerland:  
Tox Info Suisse Emergency Number: **145 (24hr)**  
Tox Info Suisse: +41-44 251 51 51 (Emergency number from abroad)  
Chemtrec (24h) Toll-Free: 0800 564 402  
Chemtrec Local: +41-43 508 20 11 (Zurich)

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

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## CLP Classification - Regulation (EC) No 1272/2008

### Physical hazards

Flammable liquids

Category 2 (H225)

### Health hazards

Based on available data, the classification criteria are not met

### Environmental hazards

Based on available data, the classification criteria are not met

Full text of Hazard Statements: see section 16

## 2.2. Label elements



Signal Word

Danger

### Hazard Statements

H225 - Highly flammable liquid and vapor

### Precautionary Statements

P240 - Ground and bond container and receiving equipment

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

## 2.3. Other hazards

Contains a known or suspected endocrine disruptor

Contains a substance on the National Authorities Endocrine Disruptor Lists

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

| Component                                    | CAS No    | EC No             | Weight % | CLP Classification - Regulation (EC) No 1272/2008  |
|--|-----------|-------------------|----------|--|
| Ethyl vinyl ketone                           | 1629-58-9 | EEC No. 216-624-3 | >95      | Flam. Liq. 2 (H225)                                |
| Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- | 128-37-0  | EEC No. 204-881-4 | 0.1      | Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410) |

| Component                                    | Specific concentration limits (SCL's) | M-Factor | Component notes |
|--|---------------------------------------|----------|-----------------|
| Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- | -                                     | 1        | -               |

REACH registration number

-

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Full text of Hazard Statements: see section 16

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

|   |   |
|---|---|
| <b>General Advice</b>                     | If symptoms persist, call a physician.  |
| <b>Eye Contact</b>                        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.   |
| <b>Skin Contact</b>                       | Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician. |
| <b>Ingestion</b>                          | Clean mouth with water and drink afterwards plenty of water.  |
| <b>Inhalation</b>                         | Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.      |
| <b>Self-Protection of the First Aider</b> | No special precautions required.  |

### 4.2. Most important symptoms and effects, both acute and delayed

. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting

### 4.3. Indication of any immediate medical attention and special treatment needed

**Notes to Physician** Treat symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

#### **Suitable Extinguishing Media**

Carbon dioxide (CO<sub>2</sub>). Dry chemical. Chemical foam. Water mist may be used to cool closed containers.

#### **Extinguishing media which must not be used for safety reasons**

No information available.

### 5.2. Special hazards arising from the substance or mixture

Flammable. Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

#### **Hazardous Combustion Products**

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Thermal decomposition can lead to release of irritating gases and vapors.

### 5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required. Ensure adequate ventilation.

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## 6.2. Environmental precautions

Should not be released into the environment.

## 6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

## 6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid ingestion and inhalation. Do not get in eyes, on skin, or on clothing.

#### Hygiene Measures

Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Contaminated work clothing should not be allowed out of the workplace. Provide regular cleaning of equipment, work area and clothing. Avoid contact with skin, eyes or clothing. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wear suitable gloves and eye/face protection.

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

Keep away from heat, sparks and flame. Refrigerator/flammables. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep containers tightly closed in a dry, cool and well-ventilated place.

**Technical Rules for Hazardous Substances (TRGS) 510**  
**Storage Class (LGK) (Germany)**

Class 3

**Switzerland - Storage of hazardous substances**

Storage class - SC 3  
<https://www.kvu.ch/de/themen/stoffe-und-produkte>  
<https://www.kvu.ch/fr/themes/substances-et-produits>  
<https://www.kvu.ch/it/temi/sostanze-e-prodotti>

### 7.3. Specific end use(s)

Use in laboratories

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### Exposure limits

List source(s): **UK** - EH40/2005 Work Exposure Limits, Forth edition. Published 2020. **IRE** - 2010 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001. Published by the Health and Safety Authority. **CH** - The Government of Switzerland has set a directive on limit values for working materials (Grenzwerte am Arbeitsplatz) which is based on the Swiss Federal Regulation "Verordnung über die Verhütung von Unfällen und Berufskrankheiten". This directive is administered, periodically revised and enforced by SUVA (Swiss National Accident Insurance Fund).

| Component   | European Union | The United Kingdom  | France   | Belgium                         | Spain   |
|---|----------------|---|--|---------------------------------|---|
| Phenol,<br>2,6-bis(1,1-dimethyle<br>thyl)-4-methyl- |                | STEL: 30 mg/m <sup>3</sup> 15 min<br>TWA: 10 mg/m <sup>3</sup> 8 hr | TWA / VME: 10 mg/m <sup>3</sup><br>(8 heures). | TWA: 2 mg/m <sup>3</sup> 8 uren | TWA / VLA-ED: 10<br>mg/m <sup>3</sup> (8 horas) |

| Component   | Italy | Germany  | Portugal                         | The Netherlands | Finland   |
|---|-------|--|----------------------------------|-----------------|---|
| Phenol,<br>2,6-bis(1,1-dimethyle<br>thyl)-4-methyl- |       | TWA: 10 mg/m <sup>3</sup> (8<br>Stunden). AGW -<br>exposure factor 4<br>TWA: 10 mg/m <sup>3</sup> (8 | TWA: 2 mg/m <sup>3</sup> 8 horas |                 | TWA: 10 mg/m <sup>3</sup> 8<br>tunteina<br>STEL: 20 mg/m <sup>3</sup> 15<br>minuutteina |

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|  |  |  |  |  |  |
|--|--|--|--|--|--|
|  |  | Stunden). MAK can occur as vapor and aerosol at the same time<br>Höhepunkt: 40 mg/m <sup>3</sup> |  |  |  |
|--|--|--|--|--|--|

| Component                                    | Austria                                 | Denmark   | Switzerland  | Poland | Norway |
|--|---|---|--|--------|--------|
| Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- | MAK-TMW: 10 mg/m <sup>3</sup> 8 Stunden | TWA: 10 mg/m <sup>3</sup> 8 timer<br>STEL: 20 mg/m <sup>3</sup> 15 minutter | STEL: 40 mg/m <sup>3</sup> 15 Minuten<br>TWA: 10 mg/m <sup>3</sup> 8 Stunden |        |        |

| Component                                    | Bulgaria   | Croatia                                 | Ireland  | Cyprus | Czech Republic |
|--|--|---|--|--------|----------------|
| Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- | TWA: 10 mg/m <sup>3</sup><br>STEL : 50 mg/m <sup>3</sup> | TWA-GVI: 10 mg/m <sup>3</sup> 8 satima. | TWA: 2 mg/m <sup>3</sup> 8 hr.<br>STEL: 6 mg/m <sup>3</sup> 15 min |        |                |

| Component                                    | Estonia | Gibraltar | Greece                    | Hungary | Iceland   |
|--|---------|-----------|---------------------------|---------|---|
| Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- |         |           | TWA: 10 mg/m <sup>3</sup> |         | TWA: 10 mg/m <sup>3</sup> 8 klukkustundum.<br>Ceiling: 20 mg/m <sup>3</sup> |

| Component                                    | Russia | Slovak Republic | Slovenia  | Sweden | Turkey |
|--|--------|-----------------|---|--------|--------|
| Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- |        |                 | TWA: 10 mg/m <sup>3</sup> 8 urah inhalable fraction<br>STEL: 40 mg/m <sup>3</sup> 15 minutah inhalable fraction |        |        |

## Biological limit values

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

## Monitoring methods

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

MDHS70 General methods for sampling airborne gases and vapours

MDHS 88 Volatile organic compounds in air. Laboratory method using diffusive samplers, solvent desorption and gas chromatography

MDHS 96 Volatile organic compounds in air - Laboratory method using pumped solid sorbent tubes, solvent desorption and gas chromatography

## Derived No Effect Level (DNEL) / Derived Minimum Effect Level (DMEL)

See table for values

| Component  | Acute effects local (Dermal) | Acute effects systemic (Dermal) | Chronic effects local (Dermal) | Chronic effects systemic (Dermal) |
|--|------------------------------|---------------------------------|--------------------------------|-----------------------------------|
| Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-<br>128-37-0 ( 0.1 ) |                              |                                 |                                | DNEL = 0.5mg/kg bw/day            |

| Component  | Acute effects local (Inhalation) | Acute effects systemic (Inhalation) | Chronic effects local (Inhalation) | Chronic effects systemic (Inhalation) |
|--|----------------------------------|-------------------------------------|------------------------------------|---------------------------------------|
| Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-<br>128-37-0 ( 0.1 ) |                                  |                                     |                                    | DNEL = 3.5mg/m <sup>3</sup>           |

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## Predicted No Effect Concentration (PNEC)

See values below.

| Component   | Fresh water      | Fresh water sediment            | Water Intermittent | Microorganisms in sewage treatment | Soil (Agriculture)           |
|---|------------------|---------------------------------|--------------------|------------------------------------|------------------------------|
| Phenol,<br>2,6-bis(1,1-dimethylethyl)-<br>4-methyl-<br>128-37-0 ( 0.1 ) | PNEC = 0.199µg/L | PNEC = 99.6µg/kg<br>sediment dw | PNEC = 1.99µg/L    | PNEC = 0.17mg/L                    | PNEC = 47.69µg/kg<br>soil dw |

| Component   | Marine water      | Marine water sediment           | Marine water Intermittent | Food chain               | Air |
|---|-------------------|---------------------------------|---------------------------|--------------------------|-----|
| Phenol,<br>2,6-bis(1,1-dimethylethyl)-<br>4-methyl-<br>128-37-0 ( 0.1 ) | PNEC = 0.0199µg/L | PNEC = 9.96µg/kg<br>sediment dw |                           | PNEC = 8.33mg/kg<br>food |     |

## 8.2. Exposure controls

### Engineering Measures

Use explosion-proof electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas. Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

### Personal protective equipment

**Eye Protection** Goggles (European standard - EN 166)

**Hand Protection** Protective gloves

| Glove material                                      | Breakthrough time                    | Glove thickness | EU standard | Glove comments        |
|---|--------------------------------------|-----------------|-------------|-----------------------|
| Natural rubber<br>Nitrile rubber<br>Neoprene<br>PVC | See manufacturers<br>recommendations | -               | EN 374      | (minimum requirement) |

**Skin and body protection** Long sleeved clothing.

Inspect gloves before use. observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. gloves with care avoiding skin contamination.

**Respiratory Protection** No protective equipment is needed under normal use conditions.

**Large scale/emergency use** Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

**Small scale/Laboratory use** Maintain adequate ventilation

**Environmental exposure controls** No information available.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

**Physical State** Liquid

**Appearance** Amber

**Odor** Odorless

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|   |                                 |                                   |
|---|---------------------------------|-----------------------------------|
| Odor Threshold                          | No data available               |                                   |
| Melting Point/Range                     | No data available               |                                   |
| Softening Point                         | No data available               |                                   |
| Boiling Point/Range                     | 103 - 104 °C / 217.4 - 219.2 °F | @ 760 mmHg                        |
| Flammability (liquid)                   | Highly flammable                | On basis of test data             |
| Flammability (solid,gas)                | Not applicable                  | Liquid                            |
| Explosion Limits                        | No data available               |                                   |
| Flash Point                             | -6 °C / 21.2 °F                 | Method - No information available |
| Autoignition Temperature                | No data available               |                                   |
| Decomposition Temperature               | No data available               |                                   |
| pH                                      | No information available        |                                   |
| Viscosity                               | No data available               |                                   |
| Water Solubility                        | No information available        |                                   |
| Solubility in other solvents            | No information available        |                                   |
| Partition Coefficient (n-octanol/water) |                                 |                                   |
| Component                               | log Pow                         |                                   |
| Phenol,                                 | 5.1                             |                                   |
| 2,6-bis(1,1-dimethylethyl)-4-methyl-    |                                 |                                   |
| Vapor Pressure                          | No information available        |                                   |
| Density / Specific Gravity              | 0.849                           |                                   |
| Bulk Density                            | Not applicable                  | Liquid                            |
| Vapor Density                           | 2.9                             | (Air = 1.0)                       |
| Particle characteristics                | Not applicable (liquid)         |                                   |

## 9.2. Other information

|                      |   |
|----------------------|---|
| Molecular Formula    | C5 H8 O                                     |
| Molecular Weight     | 84.12                                       |
| Explosive Properties | Vapors may form explosive mixtures with air |

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

None known, based on information available

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

|                          |                               |
|--------------------------|-------------------------------|
| Hazardous Polymerization | No information available.     |
| Hazardous Reactions      | None under normal processing. |

### 10.4. Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition. Incompatible products.  
Exposure to air or moisture over prolonged periods.

### 10.5. Incompatible materials

Strong oxidizing agents.

### 10.6. Hazardous decomposition products

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Thermal decomposition can lead to release of irritating gases and vapors.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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**Product Information** No acute toxicity information is available for this product

**(a) acute toxicity;**

**Oral**

Based on available data, the classification criteria are not met

**Dermal**

Based on available data, the classification criteria are not met

**Inhalation**

Based on available data, the classification criteria are not met

| Component                                    | LD50 Oral        | LD50 Dermal      | LC50 Inhalation |
|--|------------------|------------------|-----------------|
| Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- | > 6 g/kg ( Rat ) | > 2 g/kg ( Rat ) | -               |

**(b) skin corrosion/irritation;** No data available

**(c) serious eye damage/irritation;** No data available

**(d) respiratory or skin sensitization;**

**Respiratory**

No data available

**Skin**

No data available

**(e) germ cell mutagenicity;** No data available

**(f) carcinogenicity;** No data available

There are no known carcinogenic chemicals in this product

**(g) reproductive toxicity;** No data available

**(h) STOT-single exposure;** No data available

**(i) STOT-repeated exposure;** No data available

**Target Organs**

No information available.

**(j) aspiration hazard;** No data available

**Other Adverse Effects** The toxicological properties have not been fully investigated.

**Symptoms / effects, both acute and delayed** Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

## 11.2. Information on other hazards

### Endocrine Disrupting Properties

**Assess endocrine disrupting properties for human health**

Contains a substance on the National Authorities Endocrine Disruptor Lists

| Component  | EU National Authorities Endocrine Disruptor Lists - Health |
|--|--|
| Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-128-37-0 ( 0.1 ) | List II  |

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

**Ecotoxicity effects**

Do not empty into drains. .



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| Component                                    | Freshwater Fish       | Water Flea          | Freshwater Algae                            |
|--|-----------------------|---------------------|---|
| Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- | LC50 = 0.199 mg/L 96h | EC50 >0.31 mg/L 48h | EC50 = 0.758 mg/L 96h<br>EC50 = 6 mg/L 72 h |

| Component                                    | Microtox   | M-Factor |
|--|--|----------|
| Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- | EC50 = 7.82 mg/L 5 min<br>EC50 = 8.57 mg/L 15 min<br>EC50 = 8.98 mg/L 30 min | 1        |

**12.2. Persistence and degradability** No information available

**12.3. Bioaccumulative potential** No information available

| Component                                    | log Pow | Bioconcentration factor (BCF) |
|--|---------|-------------------------------|
| Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- | 5.1     | 230 - 2500 dimensionless      |

**12.4. Mobility in soil** .

**12.5. Results of PBT and vPvB assessment** No data available for assessment.

**12.6. Endocrine disrupting properties**

**Endocrine Disruptor Information** This product does not contain any known or suspected endocrine disruptors

**12.7. Other adverse effects**

**Persistent Organic Pollutant** This product does not contain any known or suspected substance

**Ozone Depletion Potential** This product does not contain any known or suspected substance

## SECTION 13: DISPOSAL CONSIDERATIONS

**13.1. Waste treatment methods**

**Waste from Residues/Unused Products** Waste is classified as hazardous. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations.

**Contaminated Packaging** Dispose of this container to hazardous or special waste collection point. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep product and empty container away from heat and sources of ignition.

**European Waste Catalogue (EWC)** According to the European Waste Catalog, Waste Codes are not product specific, but application specific.

**Other Information** Waste codes should be assigned by the user based on the application for which the product was used. Do not flush to sewer. Can be landfilled or incinerated, when in compliance with local regulations.

**Switzerland - Waste Ordinance** Disposal should be in accordance with applicable regional, national and local laws and regulations. Ordinance on the Avoidance and the Disposal of Waste (Waste Ordinance, ADWO) SR 814.600  
<https://www.fedlex.admin.ch/eli/cc/2015/891/en>

## SECTION 14: TRANSPORT INFORMATION

**IMDG/IMO**

**14.1. UN number** UN1993

**14.2. UN proper shipping name** Flammable liquid, n.o.s.

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**Technical Shipping Name** Ethyl vinyl ketone  
**14.3. Transport hazard class(es)** 3  
**14.4. Packing group** II

## ADR

**14.1. UN number** UN1993  
**14.2. UN proper shipping name** Flammable liquid, n.o.s.  
**Technical Shipping Name** Ethyl vinyl ketone  
**14.3. Transport hazard class(es)** 3  
**14.4. Packing group** II

## IATA

**14.1. UN number** UN1993  
**14.2. UN proper shipping name** Flammable liquid, n.o.s.  
**Technical Shipping Name** Ethyl vinyl ketone  
**14.3. Transport hazard class(es)** 3  
**14.4. Packing group** II

**14.5. Environmental hazards** No hazards identified

**14.6. Special precautions for user** No special precautions required.

**14.7. Maritime transport in bulk according to IMO instruments** Not applicable, packaged goods

## SECTION 15: REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### International Inventories

Europe (EINECS/ELINCS/NLP), China (IECSC), Taiwan (TCSI), Korea (KECL), Japan (ENCS), Japan (ISHL), Canada (DSL/NDSL), Australia (AICS), New Zealand (NZIoC), Philippines (PICCS). US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

| Component                                       | CAS No    | EINECS    | ELINCS | NLP | IECSC | TCSI | KECL     | ENCS | ISHL |
|---|-----------|-----------|--------|-----|-------|------|----------|------|------|
| Ethyl vinyl ketone                              | 1629-58-9 | 216-624-3 | -      | -   | X     | X    | KE-28049 | -    | -    |
| Phenol,<br>2,6-bis(1,1-dimethylethyl)-4-methyl- | 128-37-0  | 204-881-4 | -      | -   | X     | X    | KE-03079 | X    | X    |

| Component                                       | CAS No    | TSCA | TSCA Inventory notification - Active-Inactive | DSL | NDSL | AICS | NZIoC | PICCS |
|---|-----------|------|---|-----|------|------|-------|-------|
| Ethyl vinyl ketone                              | 1629-58-9 | X    | ACTIVE  | X   | -    | X    | X     | X     |
| Phenol,<br>2,6-bis(1,1-dimethylethyl)-4-methyl- | 128-37-0  | X    | ACTIVE  | X   | -    | X    | X     | X     |

**Legend:** X - Listed '-' - Not Listed

**KECL** - NIER number or KE number (<http://ncis.nier.go.kr/en/main.do>)

#### Authorisation/Restrictions according to EU REACH

Not applicable

| Component                                       | CAS No    | REACH (1907/2006) - Annex XIV - Substances Subject to Authorization | REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances | REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC) |
|---|-----------|---|---|---|
| Ethyl vinyl ketone                              | 1629-58-9 | -   | -   | -   |
| Phenol,<br>2,6-bis(1,1-dimethylethyl)-4-methyl- | 128-37-0  | -   | -   | -   |

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## Seveso III Directive (2012/18/EC)

| Component                                       | CAS No    | Seveso III Directive (2012/18/EC) -<br>Qualifying Quantities for Major Accident<br>Notification | Seveso III Directive (2012/18/EC) -<br>Qualifying Quantities for Safety Report<br>Requirements |
|---|-----------|---|--|
| Ethyl vinyl ketone                              | 1629-58-9 | Not applicable  | Not applicable   |
| Phenol,<br>2,6-bis(1,1-dimethylethyl)-4-methyl- | 128-37-0  | Not applicable  | Not applicable   |

## Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals

Not applicable

## Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)?

Not applicable

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work .

## National Regulations

**UK** - Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment

## WGK Classification

See table for values

| Component                                       | Germany - Water Classification (AwSV) | Germany - TA-Luft Class |
|---|---------------------------------------|-------------------------|
| Ethyl vinyl ketone                              | WGK3                                  |                         |
| Phenol,<br>2,6-bis(1,1-dimethylethyl)-4-methyl- | WGK 2                                 |                         |

## Swiss Regulations

Article 4 para. 4 of the Ordinance on the protection of young people in the workplace (SR 822.115) and Article 1 lit. f of the EAER regulation on hazardous work and young people (SR 822.115.2).

Take note on Article 13 Maternity Ordinance (SR 822.111.52) with regards expectant and nursing mothers.

## 15.2. Chemical safety assessment

A Chemical Safety Assessment/Report (CSA/CSR) has not been conducted

## SECTION 16: OTHER INFORMATION

### Full text of H-Statements referred to under sections 2 and 3

H225 - Highly flammable liquid and vapor

H302 - Harmful if swallowed

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

### Legend

**CAS** - Chemical Abstracts Service

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

# SAFETY DATA SHEET

Ethyl vinyl ketone

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**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**IECSC** - Chinese Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances

**ENCS** - Japanese Existing and New Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances  
**NZIoC** - New Zealand Inventory of Chemicals

**WEL** - Workplace Exposure Limit  
**ACGIH** - American Conference of Governmental Industrial Hygienists  
**DNEL** - Derived No Effect Level  
**RPE** - Respiratory Protective Equipment  
**LC50** - Lethal Concentration 50%  
**NOEC** - No Observed Effect Concentration  
**PBT** - Persistent, Bioaccumulative, Toxic

**TWA** - Time Weighted Average  
**IARC** - International Agency for Research on Cancer  
Predicted No Effect Concentration (PNEC)  
**LD50** - Lethal Dose 50%  
**EC50** - Effective Concentration 50%  
**POW** - Partition coefficient Octanol:Water  
**vPvB** - very Persistent, very Bioaccumulative

**ADR** - European Agreement Concerning the International Carriage of Dangerous Goods by Road  
**IMO/IMDG** - International Maritime Organization/International Maritime Dangerous Goods Code  
**OECD** - Organisation for Economic Co-operation and Development  
**BCF** - Bioconcentration factor

**ICAO/IATA** - International Civil Aviation Organization/International Air Transport Association  
**MARPOL** - International Convention for the Prevention of Pollution from Ships  
**ATE** - Acute Toxicity Estimate  
**VOC** - (volatile organic compound)

## Key literature references and sources for data

<https://echa.europa.eu/information-on-chemicals>  
Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

## Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.

First aid for chemical exposure, including the use of eye wash and safety showers.

|                         |  |
|-------------------------|--|
| <b>Prepared By</b>      | Health, Safety and Environmental Department        |
| <b>Creation Date</b>    | 21-May-2012  |
| <b>Revision Date</b>    | 02-Feb-2024  |
| <b>Revision Summary</b> | New emergency telephone response service provider. |

**This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.  
COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No  
1907/2006 .**

**For Switzerland - Compiled in accordance with the technical provisions referred to in Annex 2,  
Number 3, ChemO (SR 813.11 - Ordinance on Protection against Dangerous Substances and  
Preparations).**

## Disclaimer

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**End of Safety Data Sheet**