

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

### 1.1. Product identifier

|                           |                         |
|---------------------------|-------------------------|
| Product Description:      | <b>2-Butanone oxime</b> |
| Cat No. :                 | <b>L08196</b>           |
| Synonyms                  | Methyl ethyl ketoxime   |
| Index No                  | 616-014-00-0            |
| CAS No                    | 96-29-7                 |
| EC No                     | 202-496-6               |
| Molecular Formula         | C4 H9 N 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        | Avocado Research Chemicals Ltd.<br>(Part of Thermo Fisher Scientific)<br>Shore Road, Heysham<br>Lancashire, LA3 2XY,<br>United Kingdom<br>Office Tel: +44 (0) 1524 850506<br>Office Fax: +44 (0) 1524 850608 |
| 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

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

**CLP Classification - According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567**

#### Physical hazards

Based on available data, the classification criteria are not met

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## Health hazards

|  |                    |
|--|--------------------|
| Acute oral toxicity                                  | Category 3 (H301)  |
| Acute dermal toxicity                                | Category 4 (H312)  |
| Skin Corrosion/Irritation                            | Category 2 (H315)  |
| Serious Eye Damage/Eye Irritation                    | Category 1 (H318)  |
| Skin Sensitization                                   | Category 1 (H317)  |
| Carcinogenicity                                      | Category 1B (H350) |
| Specific target organ toxicity - (single exposure)   | Category 1 (H370)  |
| Specific target organ toxicity - (repeated exposure) | Category 3 (H336)  |
|  | Category 2 (H373)  |

## 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

H301 - Toxic if swallowed  
H312 - Harmful in contact with skin  
H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H318 - Causes serious eye damage  
H336 - May cause drowsiness or dizziness  
H350 - May cause cancer  
H370 - Causes damage to organs  
H373 - May cause damage to organs through prolonged or repeated exposure  
Combustible liquid

## Precautionary Statements

P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting  
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P310 - Immediately call a POISON CENTER or doctor/physician  
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing  
P280 - Wear protective gloves/protective clothing/eye protection/face protection

## Additional EU labelling

Restricted to professional users

## 2.3. Other hazards

Substance is not considered persistent, bioaccumulative and toxic (PBT) / very persistent and very bioaccumulative (vPvB)

Toxicity to Soil Dwelling Organisms  
Toxic to terrestrial vertebrates  
This product does not contain any known or suspected endocrine disruptors

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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

| Component             | CAS No  | EC No             | Weight % | CLP Classification - According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567   |
|-----------------------|---------|-------------------|----------|---|
| Methyl ethyl ketoxime | 96-29-7 | EEC No. 202-496-6 | <100     | Acute Tox. 3 (H301)<br>Acute Tox. 4 (H312)<br>Skin Irrit. 2 (H315)<br>Eye Dam. 1 (H318)<br>Skin Sens. 1 (H317)<br>STOT SE 3 (H336)<br>Carc. 1B (H350)<br>STOT SE 1 (H370)<br>STOT RE 2 (H373) |

| Component             | ECHA (RAC) ATE (Oral) | ECHA (RAC) ATE (Dermal) | ECHA (RAC) ATE (Inhalation) |
|-----------------------|-----------------------|-------------------------|-----------------------------|
| Methyl ethyl ketoxime | ATE = 100 mg/kg bw    | ATE = 1100 mg/kg bw     | -                           |

ECHA (RAC) - Committee for Risk Assessment - European CHemicals Agency  
ATE - Acute Toxicity Estimate; mg/kg bw - milligrams per kilogram of body weight

| REACH registration number | - |
|---------------------------|---|
|---------------------------|---|

Full text of Hazard Statements: see section 16

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

|   |  |
|---|--|
| <b>General Advice</b>                     | Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.  |
| <b>Eye Contact</b>                        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.   |
| <b>Skin Contact</b>                       | Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.  |
| <b>Ingestion</b>                          | Do NOT induce vomiting. Call a physician or poison control center immediately.   |
| <b>Inhalation</b>                         | Remove to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required. |
| <b>Self-Protection of the First Aider</b> | Use personal protective equipment as required.   |

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

Causes severe eye damage. May cause allergic skin reaction. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting; Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

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

|                           |                        |
|---------------------------|------------------------|
| <b>Notes to Physician</b> | Treat symptomatically. |
|---------------------------|------------------------|

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## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

#### **Suitable Extinguishing Media**

Water spray, carbon dioxide (CO<sub>2</sub>), dry chemical, alcohol-resistant 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

Combustible material. Thermal decomposition can lead to release of irritating gases and vapors. 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**

Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>).

### 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. Thermal decomposition can lead to release of irritating gases and vapors.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Ensure adequate ventilation. Use personal protective equipment as required. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas. Remove all sources of ignition. Take precautionary measures against static discharges.

### 6.2. Environmental precautions

Should not be released into the environment. Do not flush into surface water or sanitary sewer system.

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

Keep in suitable, closed containers for disposal. Soak up with inert absorbent material. Remove all sources of ignition.

### 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. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe mist/vapors/spray. Do not ingest. If swallowed then seek immediate medical assistance. Keep away from open flames, hot surfaces and sources of ignition.

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice.

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

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame.

**Technical Rules for Hazardous Substances (TRGS) 510**      Class 6.1C  
**Storage Class (LGK) (Germany)**

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## 7.3. Specific end use(s)

Use in laboratories

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### Exposure limits

List source(s): IRE - 2021 Code of Practice for the Chemical Agents Regulations, Schedule 1. Published by the Health and Safety Authority

| Component             | The United Kingdom | European Union | Ireland   |
|-----------------------|--------------------|----------------|---|
| Methyl ethyl ketoxime |                    |                | TWA: 3 ppm 8 hr.<br>TWA: 10 mg/m <sup>3</sup> 8 hr.<br>STEL: 10 ppm 15 min<br>STEL: 33 mg/m <sup>3</sup> 15 min |

#### Biological limit values

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

#### 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) |
|---|------------------------------|---------------------------------|--------------------------------|-----------------------------------|
| Methyl ethyl ketoxime<br>96-29-7 (<100) |                              | DNEL = 2.5mg/kg<br>bw/day       |                                | DNEL = 1.3mg/kg<br>bw/day         |

| Component                               | Acute effects local (Inhalation) | Acute effects systemic (Inhalation) | Chronic effects local (Inhalation) | Chronic effects systemic (Inhalation) |
|---|----------------------------------|-------------------------------------|------------------------------------|---------------------------------------|
| Methyl ethyl ketoxime<br>96-29-7 (<100) |                                  |                                     | DNEL = 3.33mg/m <sup>3</sup>       | DNEL = 9mg/m <sup>3</sup>             |

#### Predicted No Effect Concentration (PNEC)

See values below.

| Component                               | Fresh water      | Fresh water sediment | Water Intermittent | Microorganisms in sewage treatment | Soil (Agriculture) |
|---|------------------|----------------------|--------------------|------------------------------------|--------------------|
| Methyl ethyl ketoxime<br>96-29-7 (<100) | PNEC = 0.256mg/L |                      | PNEC = 0.118mg/L   | PNEC = 177mg/L                     |                    |

### 8.2. Exposure controls

#### Engineering Measures

Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location. Use explosion-proof electrical/ventilating/lighting equipment. 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)

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**Hand Protection** Protective gloves

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

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

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatibility, 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.

Remove gloves with care avoiding skin contamination.

**Respiratory Protection** When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly

**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  
**Recommended Filter type:** Organic gases and vapours filter Type A Brown conforming to EN14387

**Small scale/Laboratory use** Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.  
**Recommended half mask:-** Valve filtering: EN405; or; Half mask: EN140; plus filter, EN 141  
 When RPE is used a face piece Fit Test should be conducted

**Environmental exposure controls** Prevent product from entering drains.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

|  |                                       |  |
|--|---------------------------------------|--|
| <b>Physical State</b>                          | Liquid                                |  |
| <b>Appearance</b>                              | Light yellow                          |  |
| <b>Odor</b>                                    | No information available              |  |
| <b>Odor Threshold</b>                          | No data available                     |  |
| <b>Melting Point/Range</b>                     | -30 °C / -22 °F                       |  |
| <b>Softening Point</b>                         | No data available                     |  |
| <b>Boiling Point/Range</b>                     | 72 °C / 161.6 °F                      | @ 25 mmHg                                |
| <b>Flammability (liquid)</b>                   | Combustible liquid                    | On basis of test data                    |
| <b>Flammability (solid,gas)</b>                | Not applicable                        | Liquid                                   |
| <b>Explosion Limits</b>                        | <b>Lower</b> 1.9<br><b>Upper</b> 12.3 |  |
| <b>Flash Point</b>                             | 62 °C / 143.6 °F                      | <b>Method -</b> No information available |
| <b>Autoignition Temperature</b>                | 315 °C / 599 °F                       |  |
| <b>Decomposition Temperature</b>               | > 150°C                               |  |
| <b>pH</b>                                      | 6.5                                   | 114 g/l aq. sol                          |
| <b>Viscosity</b>                               | 15 mPa.s at 20 °C                     |  |
| <b>Water Solubility</b>                        | 114 g/l water (20°C)                  |  |
| <b>Solubility in other solvents</b>            | No information available              |  |
| <b>Partition Coefficient (n-octanol/water)</b> |                                       |  |
| <b>Component</b>                               | <b>log Pow</b>                        |  |
| Methyl ethyl ketoxime                          | 0.65                                  |  |
| <b>Vapor Pressure</b>                          | 3.5 hPa @ 20 °C                       |  |
| <b>Density / Specific Gravity</b>              | 0.923                                 |  |
| <b>Bulk Density</b>                            | Not applicable                        | Liquid                                   |

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Vapor Density 3.0 (Air = 1.0) (Air = 1.0)  
Particle characteristics Not applicable (liquid)

## 9.2. Other information

Molecular Formula C<sub>4</sub> H<sub>9</sub> N O  
Molecular Weight 87.12  
Explosive Properties explosive air/vapour mixtures possible

## 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** Hazardous polymerization does not occur.  
**Hazardous Reactions** None under normal processing.

**10.4. Conditions to avoid** Incompatible products. Excess heat. Keep away from open flames, hot surfaces and sources of ignition.

**10.5. Incompatible materials** Strong oxidizing agents. Strong acids. Strong bases. Peroxides.

**10.6. Hazardous decomposition products** Nitrogen oxides (NO<sub>x</sub>). Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

## SECTION 11: TOXICOLOGICAL INFORMATION

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

#### Product Information

(a) acute toxicity;  
Oral Category 3  
Dermal Category 4  
Inhalation Based on available data, the classification criteria are not met

| Component             | LD50 Oral                               | LD50 Dermal             | LC50 Inhalation              |
|-----------------------|---|-------------------------|------------------------------|
| Methyl ethyl ketoxime | 930 mg/kg ( Rat )<br>2528 mg/kg ( Rat ) | > 1000 mg/kg ( Rabbit ) | LC50 > 4.83 mg/L ( Rat ) 4 h |

| Component             | ECHA (RAC) ATE (Oral) | ECHA (RAC) ATE (Dermal) | ECHA (RAC) ATE (Inhalation) |
|-----------------------|-----------------------|-------------------------|-----------------------------|
| Methyl ethyl ketoxime | ATE = 100 mg/kg bw    | ATE = 1100 mg/kg bw     | -                           |

ECHA (RAC) - Committee for Risk Assessment - European Chemicals Agency  
ATE - Acute Toxicity Estimate; mg/kg bw - milligrams per kilogram of body weight

(b) skin corrosion/irritation; Category 2

(c) serious eye damage/irritation; Category 1

(d) respiratory or skin sensitization;  
Respiratory No data available

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|                                    |  |
|------------------------------------|--|
| <b>Skin</b>                        | Category 1<br>May cause sensitization by skin contact  |
| <b>(e) germ cell mutagenicity;</b> | No data available  |
| <b>(f) carcinogenicity;</b>        | Category 1B<br>Possible cancer hazard. May cause cancer based on animal data The table below indicates whether each agency has listed any ingredient as a carcinogen |

| Component             | EU           | UK | Germany | IARC |
|-----------------------|--------------|----|---------|------|
| Methyl ethyl ketoxime | Carc Cat. 1B |    | Cat. 2  |      |

|  |   |
|--|---|
| <b>(g) reproductive toxicity;</b>                | No data available   |
| <b>(h) STOT-single exposure;</b>                 | Category 3  |
| <b>Results / Target organs</b>                   | Central nervous system (CNS).   |
| <b>(i) STOT-repeated exposure;</b>               | Category 2  |
| <b>Target Organs</b>                             | No information available.   |
| <b>(j) aspiration hazard;</b>                    | No data available   |
| <b>Symptoms / effects,both acute and delayed</b> | Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing. |

## 11.2. Information on other hazards

**Endocrine Disrupting Properties** Assess endocrine disrupting properties for human health. This product does not contain any known or suspected endocrine disruptors.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

#### **Ecotoxicity effects**

Do not empty into drains. Do not flush into surface water or sanitary sewer system. Contains a substance which is: Harmful to aquatic organisms. The product contains following substances which are hazardous for the environment.

| Component             | Freshwater Fish  | Water Flea                            | Freshwater Algae                               |
|-----------------------|--|---------------------------------------|--|
| Methyl ethyl ketoxime | LC50: = 760 mg/L, 96h static (Poecilia reticulata)<br>LC50: 777 - 914 mg/L, 96h flow-through (Pimephales promelas) | EC50: = 750 mg/L, 48h (Daphnia magna) | EC50: = 83 mg/L, 72h (Desmodesmus subspicatus) |

| Component             | Microtox                                      | M-Factor |
|-----------------------|---|----------|
| Methyl ethyl ketoxime | EC50 = 281 mg/L 17 h<br>EC50 = 950 mg/L 5 min |          |

### 12.2. Persistence and degradability

#### **Persistence**

Persistence is unlikely, based on information available.

#### **Degradation in sewage treatment plant**

Contains substances known to be hazardous to the environment or not degradable in waste water treatment plants.



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**12.3. Bioaccumulative potential** Bioaccumulation is unlikely

| Component             | log Pow | Bioconcentration factor (BCF) |
|-----------------------|---------|-------------------------------|
| Methyl ethyl ketoxime | 0.65    | 2.5 - 5.8 dimensionless       |

**12.4. Mobility in soil** The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces. Will likely be mobile in the environment due to its volatility. Disperses rapidly in air.

**12.5. Results of PBT and vPvB assessment** Substance is not considered persistent, bioaccumulative and toxic (PBT) / very persistent and very bioaccumulative (vPvB).

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

## SECTION 14: TRANSPORT INFORMATION

### IMDG/IMO

**14.1. UN number** UN2810  
**14.2. UN proper shipping name** TOXIC LIQUID, ORGANIC, N.O.S.  
**Technical Shipping Name** 2-Butanone oxime  
**14.3. Transport hazard class(es)** 6.1  
**14.4. Packing group** III

### ADR

**14.1. UN number** UN2810  
**14.2. UN proper shipping name** TOXIC LIQUID, ORGANIC, N.O.S.  
**Technical Shipping Name** 2-Butanone oxime  
**14.3. Transport hazard class(es)** 6.1  
**14.4. Packing group** III

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## IATA

**14.1. UN number** UN2810  
**14.2. UN proper shipping name** TOXIC LIQUID, ORGANIC, N.O.S.  
**Technical Shipping Name** 2-Butanone oxime  
**14.3. Transport hazard class(es)** 6.1  
**14.4. Packing group** III  
  
**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**

China, X = listed, Australia, U.S.A. (TSCA), Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Australia (AICS), Korea (KECL), China (IECSC), Japan (ENCS), Philippines (PICCS). US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

| Component             | CAS No  | EINECS    | ELINCS | NLP | IECSC | TCSI | KECL     | ENCS | ISHL |
|-----------------------|---------|-----------|--------|-----|-------|------|----------|------|------|
| Methyl ethyl ketoxime | 96-29-7 | 202-496-6 | -      | -   | X     | X    | KE-03881 | X    | X    |

| Component             | CAS No  | TSCA | TSCA Inventory notification - Active-Inactive | DSL | NDSL | AICS | NZIoC | PICCS |
|-----------------------|---------|------|---|-----|------|------|-------|-------|
| Methyl ethyl ketoxime | 96-29-7 | 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**

| 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) |
|-----------------------|---------|---|--|---|
| Methyl ethyl ketoxime | 96-29-7 | -   | Use restricted. See item 75.<br>(see link for restriction details)<br>Use restricted. See item 28.<br>(see link for restriction details) | -   |

#### **REACH links**

<https://echa.europa.eu/substances-restricted-under-reach>

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

| Component             | CAS No  | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements |
|-----------------------|---------|---|--|
| Methyl ethyl ketoxime | 96-29-7 | 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

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## 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 .

Take note of Dir 76/769/EEC relating to restrictions on the marketing and use of certain dangerous substances and preparations

## 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 |
|-----------------------|---------------------------------------|-------------------------|
| Methyl ethyl ketoxime | WGK1                                  |                         |

## 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

H301 - Toxic if swallowed

H312 - Harmful in contact with skin

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H370 - Causes damage to organs

H336 - May cause drowsiness or dizziness

H350 - May cause cancer

H373 - May cause damage to organs through prolonged or repeated exposure

### Legend

**CAS** - Chemical Abstracts Service

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

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**IECSC** - Chinese Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

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

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

**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

**ICAO/IATA** - International Civil Aviation Organization/International Air Transport Association

# SAFETY DATA SHEET

2-Butanone oxime

Revision Date 05-Feb-2024

Dangerous Goods Code

**MARPOL** - International Convention for the Prevention of Pollution from Ships

**OECD** - Organisation for Economic Co-operation and Development

**ATE** - Acute Toxicity Estimate

**BCF** - Bioconcentration factor

**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.

## Prepared By

Health, Safety and Environmental Department

## Creation Date

22-Sep-2009

## Revision Date

05-Feb-2024

## Revision Summary

New emergency telephone response service provider.

**This safety data sheet complies with Regulation UK SI 2019/758 and UK SI 2020/1577 as amended.**

## Disclaimer

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**End of Safety Data Sheet**