

Vitec 3000

article number: 47862UK

Version number: Vers. 2.0
Replaces version of: 2020-12-14 (Vers. 1)

Revision: 2021-04-01

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

1.1 Product identifier

| | |
|-------------------------------------|------------------------|
| Trade name | Vitec 3000 |
| Article number | 47862UK |
| Identifiers (European Union) | |
| Registration number (REACH) | not relevant (mixture) |

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

| | |
|---------------------------------|--|
| Relevant identified uses | Antiscalant Dispersing agent Industrial uses |
|---------------------------------|--|

1.3 Details of the supplier of the safety data sheet

Kurita UK Ltd
13 Nasmyth Square, Houstoun Industrial Estate
EH54 5GG Livingston
United Kingdom

Telephone: +44 (0)131 449 6677
e-mail: KEG_PS@kurita-water.com
Website: www.kurita.eu

| <i>Name</i> | <i>Street</i> | <i>Postal code/city</i> | <i>Telephone</i> |
|--------------------|------------------------|-------------------------|--------------------|
| Kurita Europe GmbH | Theodor-Heuss-Anlage 2 | DE-68165 Mannheim | + 49 621 1218-3000 |

1.4 Emergency telephone number

Emergency CONTACT (24-Hour-Number):
Europe: GBK GmbH +49 (0)6132-84463
International: GBK/Infotrac ID 108808: (001) 352 323 3500
Assistance in mother tongue.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

not required

2.3 Other hazards

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

This mixture does not contain any substances presenting a health or environmental hazard within the means of Regulation (EC) No. 1272/2008, assigned a Community workplace exposure limit, classified as PBT/vPvB or included in the Candidate List.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

In all cases of doubt, or when symptoms persist, seek medical advice.

Following inhalation

Provide fresh air.

Following skin contact

Rinse skin with water/shower.

Following eye contact

Irrigate copiously with clean, fresh water, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing.

Following ingestion

Rinse mouth. Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

No specific antidot is known. Treatment of the symptoms.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Non-combustible. Co-ordinate firefighting measures to the fire surroundings. Water spray, Alcohol resistant foam, Fire extinguishing powder, Carbon dioxide (CO₂)

5.2 Special hazards arising from the substance or mixture

none

5.3 Advice for firefighters

Keep containers cool with water spray. In case of fire and/or explosion do not breathe fumes. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For emergency responders

Use personal protective equipment as required.

6.2 Environmental precautions

Chemicals generally shouldn't reach surface water.

6.3 Methods and material for containment and cleaning up

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: Absorbent material (e.g. sand, diatomaceous earth, acid binder, universal binder, sawdust, etc.)

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Section 7: Handling and storage. See also to sections 8 and 13 of the safety data sheet.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

Measures to prevent fire as well as aerosol and dust generation

No special measures are necessary.

Advice on general occupational hygiene

Wash hands after use.

7.2 Conditions for safe storage, including any incompatibilities

Specific designs for storage rooms or vessels

No special measures are necessary. Keep container tightly closed.

7.3 Specific end use(s)

Antiscalant. Dispersing agent. Industrial uses.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

not relevant

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)**Eye/face protection**

Use protective eyewear to guard against splash of liquids.

Skin protection

Wear suitable working clothes.

Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. In case of spray contact at least protection index 2 recommended, according to more than 30 min. penetration time (EN 374).

Layer thickness of gloves at least: 0.4 mm

In case of prolonged and intensive contact protection index 6 recommended, according to more than 480 min. penetration time (EN 374).

Layer thickness of gloves at least: 0.7 mm.

Type of material

PVC: polyvinyl chloride, PE: polyethylene, CR: chloroprene (chlorobutadiene) rubber, NBR: acrylonitrile-butadiene rubber, IIR: isobutene-isoprene (butyl) rubber, FKM: fluoro-elastomer

Breakthrough times of the glove material

Breakthrough times and swelling properties of the material must be taken into consideration

Other protection measures

Wash hands thoroughly after handling.

Respiratory protection

Not required.

Environmental exposure controls

Avoid release to the environment.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties****Appearance**

| | |
|-----------------|-------------------|
| Physical state | liquid |
| Colour | yellowish |
| Odour | characteristic |
| Odour threshold | no data available |

Other safety parameters

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| | |
|--|--|
| pH (value) | ca. 10 – 11 |
| Melting point/freezing point | not determined |
| Initial boiling point and boiling range | not determined |
| Flash point | not determined |
| Evaporation rate | not determined |
| Flammability (solid, gas) | not relevant (fluid) |
| Upper/lower flammability or explosive limits | not determined |
| Vapour pressure | not determined |
| Vapour density | this information is not available |
| Density | ca. 1.2 – 1.3 g/cm ³ at 25 °C |

Solubility(ies)

| | |
|-------------------------|----------------------------|
| Water solubility | miscible in any proportion |
|-------------------------|----------------------------|

Partition coefficient

| | |
|------------------------------------|-----------------------------------|
| - n-octanol/water (log KOW) | this information is not available |
|------------------------------------|-----------------------------------|

| | |
|---------------------------|-------------------|
| Auto-ignition temperature | not determined |
| Decomposition temperature | no data available |
| Viscosity | not determined |
| Explosive properties | none |
| Oxidising properties | none |

9.2 Other information

There is no additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity

This material is not reactive under normal ambient conditions.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

There is no additional information.

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Acute toxicity

Shall not be classified as acutely toxic.

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological information**12.1 Toxicity**

Shall not be classified as hazardous to the aquatic environment.

Biodegradation

Not readily biodegradable.

12.2 Persistence and degradability

Not readily biodegradable.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Not applicable.

12.6 Other adverse effects**Endocrine disrupting potential**

None of the ingredients are listed.

Remarks

Do not empty into drains or surface water.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Waste treatment of containers/packagings

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

| | |
|--|---|
| 14.1 UN number | not subject to transport regulations |
| 14.2 UN proper shipping name | not relevant |
| 14.3 Transport hazard class(es) | |
| Class | - |
| 14.4 Packing group | not assigned to a packing group |
| 14.5 Environmental hazards | non-environmentally hazardous acc. to the dangerous goods regulations |

14.6 Special precautions for user

There is no additional information.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

Not subject to ADR, RID and ADN.

Environmental hazards (not hazardous to the aquatic environment)

International Maritime Dangerous Goods Code (IMDG)

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR)

Not subject to ICAO-IATA.

SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

Restrictions according to REACH, Annex XVII

none of the ingredients are listed

| Dangerous substances with restrictions (REACH, Annex XVII) | | | |
|--|--|---------------|--------------------|
| <i>Name of substance</i> | <i>Name acc. to inventory</i> | <i>CAS No</i> | <i>Restriction</i> |
| Vitec 3000 | this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC | | R3 |

Legend

- R3
- Shall not be used in:
 - ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
 - tricks and jokes,
 - games for one or more participants, or any article intended to be used as such, even with ornamental aspects,
 - Articles not complying with paragraph 1 shall not be placed on the market.
 - Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:
 - can be used as fuel in decorative oil lamps for supply to the general public, and,
 - present an aspiration hazard and are labelled with R65 or H304,
 - Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).
 - Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:
 - lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: 'Keep lamps filled with this liquid out of the reach of children'; and, by 1 December 2010, 'Just a sip of lamp oil - or even sucking the wick of lamps - may lead to life-threatening lung damage';
 - grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter may lead to life threatening lung damage';
 - lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.
 - No later than 1 June 2014, the Commission shall request the European Chemicals Agency to prepare a dossier, in accordance with Article 69 of the present Regulation with a view to ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled R65 or H304, intended for supply to the general public.
 - Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.

List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

none of the ingredients are listed

Seveso Directive

2012/18/EU (Seveso III)

| No | <i>Dangerous substance/hazard categories</i> | <i>Qualifying quantity (tonnes) for the application of lower and upper-tier requirements</i> | Notes |
|----|--|--|-------|
| | not assigned | | |

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II

none of the ingredients are listed

Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

Water Framework Directive (WFD)

none of the ingredients are listed

Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors, amending Regulation (EC) No 1907/2006 and repealing Regulation (EU) No 98/2013

none of the ingredients are listed

Regulation 111/2005/EC laying down rules for the monitoring of trade between the Community and third countries in drug precursors

none of the ingredients are listed

15.2 Chemical Safety Assessment

Chemical Safety Assessment: No.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

| Section | <i>Former entry (text/value)</i> | <i>Actual entry (text/value)</i> |
|---------|--|---|
| 1.3 | Details of the supplier of the safety data sheet: Kurita UK Ltd 13 Nasmyth Square, Houstoun Industrial Estate EH54 5GG Livingston United Kingdom Telephone: +44 (0)131 449 6677 e-mail: MSDS@kurita.eu Website: www.kurita.eu | Details of the supplier of the safety data sheet: Kurita UK Ltd 13 Nasmyth Square, Houstoun Industrial Estate EH54 5GG Livingston United Kingdom Telephone: +44 (0)131 449 6677 e-mail: KEG_PS@kurita-water.com Website: www.kurita.eu |
| 1.3 | | Details of the supplier of the safety data sheet: change in the listing (table) |
| 5.2 | Hazardous combustion products: Carbon monoxide (CO), Carbon dioxide (CO ₂) | |
| 11.1 | Acute toxicity: Test data are not available for the complete mixture. | Acute toxicity: Shall not be classified as acutely toxic. |

| <i>Section</i> | <i>Former entry (text/value)</i> | <i>Actual entry (text/value)</i> |
|----------------|--|---|
| 11.1 | Skin corrosion/irritation: Test data are not available for the complete mixture. | Skin corrosion/irritation: Shall not be classified as corrosive/irritant to skin. |
| 11.1 | Serious eye damage/eye irritation: Test data are not available for the complete mixture. | Serious eye damage/eye irritation: Shall not be classified as seriously damaging to the eye or eye irritant. |
| 11.1 | Respiratory or skin sensitisation: Test data are not available for the complete mixture. | Respiratory or skin sensitisation: Shall not be classified as a respiratory or skin sensitiser. |
| 11.1 | Germ cell mutagenicity: Test data are not available for the complete mixture. | Germ cell mutagenicity: Shall not be classified as germ cell mutagenic. |
| 11.1 | Carcinogenicity: Test data are not available for the complete mixture. | Carcinogenicity: Shall not be classified as carcinogenic. |
| 11.1 | Reproductive toxicity: Test data are not available for the complete mixture. | Reproductive toxicity: Shall not be classified as a reproductive toxicant. |
| 11.1 | Specific target organ toxicity - single exposure: Test data are not available for the complete mixture. | Specific target organ toxicity - single exposure: Shall not be classified as a specific target organ toxicant (single exposure). |
| 11.1 | Specific target organ toxicity - repeated exposure: Test data are not available for the complete mixture. | Specific target organ toxicity - repeated exposure: Shall not be classified as a specific target organ toxicant (repeated exposure). |
| 12.1 | | Biodegradation: Not readily biodegradable. |
| 12.2 | Persistence and degradability: Data are not available. | Persistence and degradability: Not readily biodegradable. |

Abbreviations and acronyms

| <i>Abbr.</i> | <i>Descriptions of used abbreviations</i> |
|--------------|---|
| ADN | Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways) |
| ADR | Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road) |
| CAS | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances) |
| CLP | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures |
| DGR | Dangerous Goods Regulations (see IATA/DGR) |
| IATA | International Air Transport Association |
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA) |
| ICAO | International Civil Aviation Organization |
| IMDG | International Maritime Dangerous Goods Code |
| MARPOL | International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant") |
| PBT | Persistent, Bioaccumulative and Toxic |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail) |

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| <i>Abbr.</i> | <i>Descriptions of used abbreviations</i> |
|--------------|---|
| SVHC | Substance of Very High Concern |
| vPvB | Very Persistent and very Bioaccumulative |

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.
Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU. ECHA: European Chemicals Agency, <http://echa.europa.eu/>.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.