



Virkon® LSP

Version 2.0

Revision Date 06.09.2012

Ref. 130000118698

This SDS adheres to the standards and regulatory requirements of Great Britain and may not meet the regulatory requirements in other countries.

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

1.1. Product identifier

Product name : Virkon® LSP

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

Use of the Substance/Mixture : Disinfectant

1.3. Details of the supplier of the safety data sheet

Company : Antec International Limited
Windham Road
Chilton Industrial Estate
Sudbury / Suffolk - CO10 2XD
United Kingdom

Telephone : +44(0)1787 377 305

Telefax : +44(0)1787 310 846

E-mail address : sds-support@che.dupont.com

1.4. Emergency telephone number

Emergency telephone number : +44-(0)8456-006.640

Remarks : Antec International Limited is a wholly owned subsidiary of Dupont (UK) Ltd.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Corrosive R34: Causes burns.
Harmful R21/22: Harmful in contact with skin and if swallowed.
Sensitising R43: May cause sensitization by skin contact.

2.2. Label elements



Corrosive

R21/22 Harmful in contact with skin and if swallowed.
R34 Causes burns.
R43 May cause sensitization by skin contact.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek



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S36/37/39

S45

S60

medical advice.

Wear suitable protective clothing, gloves and eye/face protection.

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

This material and its container must be disposed of as hazardous waste.

2.3. Other hazards

no data available

SECTION 3: Composition/information on ingredients

3.1. Substances

not applicable

3.2. Mixtures

| Registration number | Classification according Directive 67/548/EEC | Classification according Regulation 1272/2008 (CLP) | Concentration |
|---------------------|---|---|---------------|
|---------------------|---|---|---------------|

Acetic acid (CAS-No.64-19-7) (EC-No.200-580-7)

| | | | |
|--|--------------|---|-----------|
| | R10 C;R35 | Flam. Liq. 3; H226 Skin Corr. 1A; H314 | 15 - 25 % |
|--|--------------|---|-----------|

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. (CAS-No.85536-14-7) (EC-No.287-494-3)

| | | | |
|--|--------------|---|-----------|
| | C;R34 R22 | Acute Tox. 4; H302 Skin Corr. 1B; H314 | 20 - 25 % |
|--|--------------|---|-----------|

Biphenyl-2-ol (CAS-No.90-43-7) (EC-No.201-993-5)

| | | | |
|--|-----------------------|---|----------|
| | Xi;R36/37/38 N;R50 | Eye Irrit. 2; H319 STOT SE 3; H335 Skin Irrit. 2; H315 Aquatic Acute 1; H400 | 5 - 12 % |
|--|-----------------------|---|----------|

4-Chloro-m-cresol (CAS-No.59-50-7) (EC-No.200-431-6)

| | | | |
|--|-------------------------------------|---|----------|
| | Xn;R21/22 Xi;R41 R43 N;R50 | Acute Tox. 4; H312 Acute Tox. 4; H302 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400 | 5 - 12 % |
|--|-------------------------------------|---|----------|

Tetrasodium ethylene diamine tetraacetate (CAS-No.64-02-8) (EC-No.200-573-9)

| | | | |
|--|------------------|--|---------|
| | Xn;R22 Xi;R41 | Acute Tox. 4; H302 Eye Dam. 1; H318 | 1 - 5 % |
|--|------------------|--|---------|



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The above products are REACH compliant; Registration number(s) may not be provided because substance(s) are exempted, not yet registered under REACH or are registered under another regulatory process (biocide uses, plant protection products), etc.

For the full text of the R-phrases mentioned in this Section, see Section 16.
For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

- | | |
|----------------|---|
| General advice | : Never give anything by mouth to an unconscious person. When symptoms persist or in all cases of doubt seek medical advice. |
| Inhalation | : Remove from exposure, lie down. If victim has stopped breathing: Artificial respiration and/or oxygen may be necessary. Keep patient warm and at rest. Consult a physician. |
| Skin contact | : Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use. |
| Eye contact | : Rinse immediately with plenty of water and seek medical advice. |
| Ingestion | : Do NOT induce vomiting. Rinse mouth. Drink 1 or 2 glasses of water. If possible drink milk afterwards. Call a physician immediately. |

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

- | | |
|----------|--|
| Symptoms | : Inhalation may provoke the following symptoms:, Cough, Discomfort, Local irritation |
| | : Skin contact may provoke the following symptoms:, Irritation, Discomfort |
| | : Eye contact may provoke the following symptoms:, Lachrymation, Blurred vision, Severe irritation, Damage |
| | : Ingestion may provoke the following symptoms:, Nausea, Burn |

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

- | | |
|-----------|--------------------------|
| Treatment | : Treat symptomatically. |
|-----------|--------------------------|

SECTION 5: Firefighting measures

5.1. Extinguishing media

- | | |
|------------------------------|--|
| Suitable extinguishing media | : Foam, Dry powder, Carbon dioxide (CO ₂), Water spray |
|------------------------------|--|

5.2. Special hazards arising from the substance or mixture

- | | |
|--------------------------------------|---|
| Specific hazards during firefighting | : Fire or intense heat may cause violent rupture of packages. Burning produces noxious and toxic fumes. |
|--------------------------------------|---|



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5.3. Advice for firefighters

Special protective equipment : Wear self-contained breathing apparatus and protective suit.
for firefighters

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Evacuate personnel to safe areas. Use personal protective equipment.

6.2. Environmental precautions

Environmental precautions : Do not allow material to contaminate ground water system. Prevent product from entering drains. Avoid subsoil penetration.

6.3. Methods and materials for containment and cleaning up

Methods for cleaning up : Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal. Avoid dust formation. After cleaning, flush away traces with water.

Other information : Dispose of in accordance with local regulations.

6.4. Reference to other sections

For personal protection see section 8., For disposal instructions see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling : Provide adequate ventilation. Avoid contact with skin and eyes. For personal protection see section 8.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Protect from contamination. Store in original container. Keep in a dry, cool place.

Other data : Do not freeze.

7.3. Specific end use(s)

no data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters



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If sub-section is empty then no values are applicable.

Components with workplace control parameters

| Type Form of exposure | Control parameters | Update | Basis | Remarks |
|--------------------------|-----------------------|--------|-------|---------|
|--------------------------|-----------------------|--------|-------|---------|

Acetic acid (CAS-No. 64-19-7)

| | | | | |
|-----|--------------------|---------|--------|------------|
| TWA | 25 mg/m3 10 ppm | 12 2009 | EU ELV | Indicative |
|-----|--------------------|---------|--------|------------|

8.2. Exposure controls

- Engineering measures : Provide local exhaust ventilation when handling material in bulk. Use an airless flow type of spray applicator.
- Eye protection : Tightly fitting safety goggles
- Hand protection : Rubber gloves
- Skin and body protection : Wear as appropriate: Coveralls Boots Remove and wash contaminated clothing before re-use.
- Hygiene measures : Wash hands before breaks and immediately after handling the product. Regular cleaning of equipment, work area and clothing.
- Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Form : liquid
- Colour : clear, brown
- Odour : acidic
- pH : 2.1 at (20 °C)
- Flash point : > 104 °C
- Relative density : 1.09 - 1.14 at 20 °C

9.2. Other information

no data available

SECTION 10: Stability and reactivity



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- 10.1. Reactivity** : Stable under recommended storage conditions.
- 10.2. Chemical stability** : Stable under normal conditions.
- 10.3. Possibility of hazardous reactions** : Stable under recommended storage conditions.
- 10.4. Conditions to avoid** : no data available
- 10.5. Incompatible materials** : Strong acids and strong bases
- 10.6. Hazardous decomposition products** : no data available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

- Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.
LD50 / rat : 1,219 - 1,470 mg/kg

Skin irritation

- Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.
rabbit
Result: Corrosive
Method: OECD Test Guideline 404

Eye irritation

- Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.
rabbit
Result: Corrosive
Method: OECD Test Guideline 405

Repeated dose toxicity

- Acetic acid
Inhalation rat
Pathologic changes, Respiratory Tract

Mutagenicity assessment

- Biphenyl-2-ol
Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
- Tetrasodium ethylene diamine tetraacetate
no data available

Carcinogenicity assessment



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- Biphenyl-2-ol
Not classifiable as a human carcinogen.
- Tetrasodium ethylene diamine tetraacetate
no data available

Toxicity to reproduction assessment

- Biphenyl-2-ol
No toxicity to reproduction
- Tetrasodium ethylene diamine tetraacetate
no data available

Assessment teratogenicity

- Tetrasodium ethylene diamine tetraacetate
no data available

Human experience

Excessive exposures may affect human health, as follows:

Inhalation

Upper respiratory tract: Cough, Local irritation, Discomfort

Skin contact

Skin: Mild skin irritation, Discomfort

Eye contact

Eyes: Lachrymation, Blurred vision, Severe irritation, Damage

Ingestion

Stomach: Nausea, Burn

Further information

No data is available on the product itself.

SECTION 12: Ecological information

12.1. Toxicity

Toxicity to fish

- Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.
LC50 / 96 h / *Cyprinus carpio* (Carp): 5.6 mg/l

Toxicity to aquatic plants

- Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.
EC50 / 72 h / Algae: 14 mg/l

Toxicity to aquatic invertebrates



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- Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.
EC50 / 48 h / Daphnia: 5.2 mg/l

12.2. Persistence and degradability

Biodegradability

- Acetic acid
Readily biodegradable.
- Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.
aerobic
Readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulation

- Acetic acid
Bioconcentration factor (BCF): 3.16
Bioaccumulation is unlikely.

12.4. Mobility in soil

no data available

12.5. Results of PBT and vPvB assessment

no data available

12.6. Other adverse effects

Additional ecological information

No data is available on the product itself.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

- | | |
|------------------------|---|
| Product | : Dispose of as special waste in compliance with local and national regulations. The product should not be allowed to enter drains, water courses or the soil. |
| Contaminated packaging | : If recycling is not practicable, dispose of in compliance with local regulations. Do not allow rinsate from cleaning of equipment or disposed material to enter surface or groundwater. Empty containers should be taken to an approved waste handling site for recycling or disposal. |

SECTION 14: Transport information

ADR

- | | |
|--------------------------------|---|
| 14.1. UN number: | 3265 |
| 14.2. UN proper shipping name: | Corrosive liquid, acidic, organic, n.o.s. (Acetic acid, Alkylbenzene sulfonic acid) |



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14.3. Transport hazard class(es): 8
14.4. Packing group: II
14.5. Environmental hazards:
14.6. Special precautions for user:
Tunnel restriction code: (E)

IATA_C

14.1. UN number: 3265
14.2. UN proper shipping name: Corrosive liquid, acidic, organic, n.o.s. (Acetic acid, Alkylbenzene sulfonic acid)
14.3. Transport hazard class(es): 8
14.4. Packing group: II
14.5. Environmental hazards :
14.6. Special precautions for user:
no data available

IMDG

14.1. UN number: 3265
14.2. UN proper shipping name: Corrosive liquid, acidic, organic, n.o.s. (Acetic acid, Alkylbenzene sulfonic acid)
14.3. Transport hazard class(es): 8
14.4. Packing group: II
14.5. Environmental hazards :
14.6. Special precautions for user:
no data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
not applicable

SECTION 15: Regulatory information

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

no data available

15.2. Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this mixture.

SECTION 16: Other information

Text of R-phrases mentioned in Section 3

| | |
|-----------|--|
| R10 | Flammable. |
| R21/22 | Harmful in contact with skin and if swallowed. |
| R22 | Harmful if swallowed. |
| R34 | Causes burns. |
| R35 | Causes severe burns. |
| R36/37/38 | Irritating to eyes, respiratory system and skin. |
| R41 | Risk of serious damage to eyes. |
| R43 | May cause sensitization by skin contact. |
| R50 | Very toxic to aquatic organisms. |

Full text of H-Statements referred to under section 3.



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| | |
|------|--|
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| H400 | Very toxic to aquatic life. |

Further information

No ES Annex has been created as to the best of our knowledge and information available at the date of its publication no Exposure Scenario information is currently available for the substances within the mixture. Please see Sections 1 to 16 of the Safety Data Sheet.

Significant change from previous version is denoted with a double bar.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.