

Safety Data Sheet

Hard Surface Disinfectant Spray and Wipes



Section 1. Identification of the material and the supplier

Product: **BK Hard Surface Disinfectant Wipes - Alcohol**
BK Hard Surface Disinfectant Spray - Alcohol

Item Code: 406XXX, S40001, S40002

Product Use: For surface disinfection of non-invasive medical devices.
 Cleaning agent.
 PC 8: Biocidal products (eg. Disinfectants, pest control).

Restriction of Use: Refer to Section 15

New Zealand Supplier: **Eagle Protect**
 Address: EPIC, Unit 5
 76/106 Manchester Street
 Christchurch Central, 8011

Telephone: 0800 633 468
 Fax Number: 0800 633 467
 Website: www.eagleprotect.co.nz

Emergency Telephone: 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 26 October 2017

Section 2. Hazards Identification

This substance is hazardous according to the HSNO (Minimum Degrees of Hazard) Regulations 2001

EPA Approval No: Cleaning Products (Flammable) – HSR002528

Pictograms



Flammable Toxic/Irritant Chronic

Signal Word: **DANGER**

| HSNO Classification | Hazard Code | Hazard Statement | GHS Category |
|---------------------|-------------|-------------------------------------|--------------|
| 3.1B | H225 | Highly flammable liquid and vapour. | Category 2 |
| 6.1D (inh) | H332 | Harmful if inhaled. | Category 4 |

| | | | |
|------|------|--------------------------------------|-------------|
| 6.3B | H316 | Causes mild skin irritation. | Category 3 |
| 6.4A | H319 | Causes serious eye irritation. | Category 2A |
| 6.5B | H317 | May cause an allergic skin reaction. | Category 1 |
| 6.7B | H351 | Suspected of causing cancer. | Category 2 |

| Prevention Code | Prevention Statement |
|------------------------|---|
| P102 | Keep out of reach of children. |
| P103 | Read label before use. |
| P202 | Do not handle until all safety precautions have been read and understood. |
| P210 | Keep away from heat, sparks, open flames or hot surfaces. No smoking. |
| P233 | Keep container tightly closed. |
| P240 | Ground/bond container and receiving equipment. |
| P241 | Use explosion-proof electrical, ventilating and lighting. |
| P242 | Use only non-sparking tools. |
| P243 | Take precautionary measures against static discharge. |
| P261 | Avoid breathing fumes, vapours or spray. |
| P264 | Wash hands thoroughly after handling. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P272 | Contaminated work clothing should not be allowed out of the workplace. |
| P280 | Wear protective clothing. |
| P281 | Use personal protective equipment as required. |

| Response Code | Response Statement |
|----------------------|--|
| P101 | If medical advice is needed, have product container or label at hand. |
| P312 | Call a POISON CENTER or doctor/physician if you feel unwell. |
| P363 | Wash contaminated clothing before reuse. |
| P302 + P352 | IF ON SKIN: Wash with plenty of soap and water. |
| P303 + P361+P353 | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. |
| P304 + P340 | IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. |
| P305 + P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P333 + P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P337 + P313 | If eye irritation persists: Get medical advice/attention. |
| P370 + P378 | In case of fire: Suitable extinguishing media for the surrounding fire should be used for extinction. |

| Storage Code | Storage Statement |
|---------------------|--|
| P403 + P235 | Store in a well-ventilated place. Keep cool. |
| P405 | Store locked up. |

| Disposal Code | Disposal Statement |
|----------------------|--|
| P501 | Dispose of according to Local Regulations or Authorities |

Section 3. Composition / Information on Hazardous Ingredients

| Ingredients | Wt% | CAS NUMBER. |
|---|------------|--------------------|
| Ethanol | 55 | 64-17-5 |
| Propan-2-ol | 19 | 67-63-0 |
| polyhexamethylene biguanide hydrochloride | 0.20 | 27083-27-8 |

Section 4. First Aid Measures

Routes of Exposure:

- If in Eyes Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice.
- If on Skin Wash with plenty of soap and water. Take off contaminated clothing and wash before re-use. If skin irritation or rash occurs: get medical advice/attention.
- If Swallowed Wash out mouth with water. Call a POISON CENTER or doctor/physician if you feel unwell.
- If Inhaled Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Get medical advice if breathing becomes difficult.

Most important symptoms and effects, both acute and delayed:

- Skin Contact: There may be irritation and redness at the site of contact.
- Eye Contact: There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.
- Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.
- Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.
- Chronic: Suspected of causing cancer.

Delayed/immediate effects: Immediate effects can be expected after short-term exposure.

Section 5. Fire Fighting Measures

| | |
|---|---|
| Hazard Type | Flammable. |
| Hazards from combustion products | In combustion emits toxic fumes. |
| Suitable Extinguishing media | Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers. |
| Precautions for firefighters and special protective clothing | Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes. |
| HAZCHEM CODE | 3YE |

Section 6. Accidental Release Measures

Wear protective equipment as detailed in Section 8. Clear area of any unprotected personnel. Eliminate all sources of ignition. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Do not discharge into drains or rivers. Contain the spillage using bunding.

Turn leaking containers leak-side up to prevent the escape of liquid.

Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

Section 7. Handling and Storage

Precautions for Handling:

- Keep out of reach of children.
- Read label before use.
- Keep away from heat, sparks, open flames or hot surfaces. No smoking.
- Keep container tightly closed.
- Ground/bond container and receiving equipment.
- Use explosion-proof electrical, ventilating and lighting.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Avoid breathing fumes, vapours or spray.
- Wash hands thoroughly after handling.
- Contaminated work clothing should not be allowed out of the workplace.
- Wear protective clothing.
- Use personal protective equipment as required.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Store in a well-ventilated place. Keep cool.
- Keep container tightly closed.
- Store locked up.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

| Substance | TWA | | STEL | |
|-----------------------------------|-------|-------------------|------|-------------------|
| | ppm | mg/m ³ | ppm | mg/m ³ |
| Isopropyl alcohol [67-63-0] | 400 | 983 | 500 | 1,230 |
| Ethanol (Ethyl alcohol) [64-17-5] | 1,000 | 1,880 | | |

Workplace Exposure Standard – Time Weighted Average (WES-TWA). *The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure.* Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). *The 15-minute average exposure standard.* Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply.

Engineering Controls

Ensure there is sufficient ventilation of the area.

Personal Protection Equipment

| | |
|--------------------|---|
| Eyes | Tightly fitting safety glasses with side shields. Avoid wearing contact lenses. Ensure eye bath is to hand. |
| Hands | Protective gloves. |
| Skin | Protective clothing. |
| Respiratory | Not required. |

Section 9 Physical and Chemical Properties

| | |
|-------------------|------------------|
| Appearance | Liquid |
| Colour | Clear Colourless |
| Odour | Alcoholic |

| | |
|---|------------------|
| Odour Threshold | Not available |
| pH | 3-5 |
| Boiling Point | 82°C |
| Melting Point | Not available |
| Freezing Point | Not available |
| Flash Point | 18.7°C |
| Flammability | Highly Flammable |
| Upper and Lower Explosive Limits | Not available |
| Vapour Pressure | Not available |
| Vapour Density | Not available |
| Relative Density | 0.850-0.880 |
| Water Solubility | Soluble |
| Partition Coefficient: | Not available |
| Auto-ignition Temperature | Not available |
| Decomposition Temperature | Not available |
| Kinematic Viscosity | Not available |
| Particle Characteristics | Not available |

Section 10. Stability and Reactivity

| | |
|---|--|
| Stability of Substance | This product is stable under normal conditions. |
| Possibility of hazardous reactions | Hazardous reactions will not occur under normal transport or storage conditions. In combustion emits toxic fumes. |
| Conditions to Avoid | Heat. |
| Incompatible Materials | Strong oxidising agents. Strong acids. |
| Hazardous Decomposition Products | Decomposition may occur on exposure to conditions or materials listed below: Strong oxidising agents. Strong acids. |

Section 11 Toxicological Information

Acute Effects:

| | |
|-------------------|---|
| Swallowed | There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. |
| Dermal | Not applicable |
| Inhalation | May be harmful if inhaled. There may be irritation of the throat with a feeling of tightness in the chest. |
| Eye | Causes severe eye irritation. There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage. |
| Skin | Causes mild skin irritation. May cause an allergic skin reaction. There may be pain and redness at the site of contact. |

Chronic Effects:

| | |
|-------------------------------|------------------------------|
| Carcinogenicity | Suspected of causing cancer. |
| Reproductive Toxicity | Not applicable. |
| Germ Cell Mutagenicity | Not applicable. |
| Aspiration | Not applicable. |
| STOT/SE | Not applicable. |
| STOT/RE | Not applicable. |

Hazardous Ingredients:

Propan-2-Ol

Ivn Rat Ld50: 1088 Mg/Kg

Oral Mus Ld50: 3600 Mg/Kg

Oral Rat Ld50 5045 Mg/Kg

Scu Mus Ldl0: 6 Gm/Kg

Ethanol:

IVN RAT LD50: 1440mg/kg

ORL MUS LD50: 3450mgkg

ORL RAT LD50: 7060mg/kg

POLYHEXAMETHYLENE BIGUANIDE HYDROCHLORIDE

DERMAL RAT LD50: >2000MG/KG

ORAL RAT LD50: >2000MG/KG

Section 12. Ecotoxicological Information

This product is not hazardous to the environment.

Hazardous ingredients:

POLYHEXAMETHYLENE BIGUANIDE HYDROCHLORIDE

| | | | |
|--|-----------|--------|------|
| Daphnia magna | 48H EC50 | 0.156 | mg/l |
| GREEN ALGA (Selenastrum capricornutum) | 72H ErC50 | 0.0206 | mg/l |
| RAINBOW TROUT (Oncorhynchus mykiss) | 96H LC50 | 0.321 | mg/l |

| | |
|--------------------------------------|-------------------------------|
| Persistence and degradability | Biodegradable. |
| Bioaccumulation | No bioaccumulation potential. |
| Mobility in Soil | Readily absorbed into soil. |
| Other adverse effects | Negligible ecotoxicity. |

Section 13. Disposal Considerations

Disposal Method: Transfer to a suitable container and arrange for collection by specialised disposal company. Triple rinse container before disposal. Treat rinsate as hazardous and dispose of appropriately.
Ensure any container holding waste product, rinsate, or contaminated spill media is labelled "Hazardous Waste – Flammable" and that the label also has the Flammable Pictogram, waste type identifier, and the business name, address, and phone number.

Precautions or methods to avoid: Avoid release to the environment.

Section 14 Transport Information

This product is classified as a Dangerous Good for transport in NZ ; NZS 5433:2012

Road and Rail Transport

UN No: 1993
Class-primary 3
Packing Group II

Product Name: BK Surface Disinfectant Wipes /Spray
Date of SDS: 26 October 2017

Prepared by: Technical Compliance Consultants (NZ) Ltd
Tel: 64 9 475 5240 www.techcomp.co.nz

Proper Shipping Name: FLAMMABLE LIQUID, N.O.S.

Air Transport

UN No: 1993
Class-primary 3
Packing Group II
Proper Shipping Name: FLAMMABLE LIQUID, N.O.S.

Marine Transport

UN No: 1993
Class-primary 3
Packing Group II
Proper Shipping Name: FLAMMABLE LIQUID, N.O.S.

If total quantity of product shipment is below 1L, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information. Talk to your logistics or courier company for further information.

Section 15 Regulatory Information

EPA Approval Code: Cleaning Products (Flammable) – HSR002528

HSNO Classification: 3.1C, 6.3B, 6.4A, 6.5B, 6.7B

HSNO Controls:

Trigger quantities for this substance:

| | Trigger Quantity |
|-----------------------------|----------------------------------|
| Approved Handler | >250L |
| Location Certificate | 100L (>5L), 250L (<5L), 50L open |
| Tracking Trigger Quantities | Not required |
| Signage Trigger Quantities | 250L (3.1B) |
| Emergency Response Plan | 1000L (3.1B) |
| Secondary Containment | 1000L (3.1B) |
| Restriction of Use | None |

Section 16 Other Information

Glossary

| | |
|------------------|---|
| EC ₅₀ | Median effective concentration. |
| EEL | Environmental Exposure Limit. |
| EPA | Environmental Protection Authority |
| HSNO | Hazardous Substances and New Organisms. |
| LC ₅₀ | Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it. |
| LD ₅₀ | Lethal dose to kill 50% of test animals/organisms. |
| LEL | Lower explosive level. |
| OSHA | American Occupational Safety and Health Administration. |
| TEL | Tolerable Exposure Limit. |
| TLV | Threshold Limit Value-an exposure limit set by responsible authority. |
| UEL | Upper Explosive Level |
| WES | Workplace Exposure Limit |

1. HSNO Approved Code of Practice: Preparation of Safety Data Sheets, September 2006.

Disclaimer

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

The information herein is given in good faith, but no warranty, express or implied is made.

Please contact the New Zealand distributor, Eagle Protect, if further information is required.

Eagle Protect Disclaimer:

The information contained in this SDS has been compiled from reliable sources and is believed to be correct as of the date issued. It is the responsibility of the user to determine the appropriateness and applicability to their situation.

Eagle Protect disclaims any expressed or implied warranty as to the accuracy of the above information and shall not be held liable for any direct, incidental, or consequential damages from use or reliance on the above information.

Issue Date: 26 October 2017 Review Date: 26 October 2022