

SAFETY DATA SHEET



DEOSAN

WHYTES SPECIALISED EQUIPMENT

Catalogue number: WH433

Version No: 2.1

Issue date: 29/06/2021

Safety Data Sheet according to WHS and ADG requirements

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

Product Identifier

| | |
|--------------|----------|
| Product name | DEOSAN |
| Product code | WH433 |
| Pack size | 5L & 20L |

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

| | |
|--------------------------|---|
| Relevant identified uses | Anti - microbial carpet odour neutralizer |
|--------------------------|---|

Details of the supplier of the safety data sheet

| | |
|-------------------------|--|
| Registered company name | WHYTES SPECIALISED EQUIPMENT |
| Address | Unit 17/ 19 Cornhill Street, Ferntree Gully VIC 3156 Australia |
| Telephone | (03) 9758 6711 |
| Website | www.carpetcleaningequipment.com.au |
| Email | sales@carpetcleaningequipment.com.au |

Emergency telephone number

| | |
|-----------------------------------|----------------------------|
| Association / Organisation | Poisons Information Centre |
| Emergency telephone numbers | 13 11 26 |
| Other emergency telephone numbers | Not Available |

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

| | |
|--------------------|---|
| Poisons Schedule | Not Applicable |
| GHS Classification | Skin Corrosion/Irritation Category 2, Serious Eye Damage Category 1 |
| | Classification drawn from HCIS and ECHA C&L Inventory. |

Label elements

| | |
|--------------------|--|
| GHS label elements | A diamond-shaped hazard pictogram with a red border. Inside, there is a black silhouette of a hand being touched by a test tube that is dripping liquid, representing skin irritation. |
|--------------------|--|

| | |
|-------------|--------|
| SIGNAL WORD | DANGER |
|-------------|--------|

Hazard statement(s)

| | |
|------|---------------------------|
| H315 | Causes skin irritation |
| H318 | Causes serious eye damage |

Precautionary statement(s) Prevention

| | |
|------|--|
| P280 | Wear protective gloves and eye protection. |
| P264 | Wash hands and exposed skin thoroughly after handling. |

Precautionary statement(s) Response

| | |
|--------------------------|--|
| P305+P310+P351+P338 | IF IN EYES: Immediately call a POISON CENTER or doctor. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P302+P362+P352+P332+P313 | IF ON SKIN: Take off contaminated clothing and wash before reuse. Wash with plenty of soap and water. If skin irritation occurs, get medical advice / attention. |

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

| | |
|------|---|
| P501 | Dispose of contents/container in accordance with local regulations. |
|------|---|

This SDS and the hazard classifications contained herein only apply to the product in its concentrated form as supplied. When diluted as recommended and ready-to-use, they no longer apply. However, good hygiene and housekeeping practices should be adhered to

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures.

Mixtures

| CAS No | %[weight] | Name |
|------------|-----------|---|
| 63449-41-2 | <10 | <u>benzyl C8-18 alkyl dimethylammonium chloride</u> |
| 67-63-0 | <10 | <u>isopropanol</u> |

SECTION 4 FIRST AID MEASURES

Description of first aid measures

| | |
|--------------|---|
| Eye Contact | If this product comes in contact with eyes: Obtain medical advice / attention without delay Immediately hold eyelids apart and flush the eye continuously with running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. If necessary, transport to hospital or doctor without delay. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. |
| Skin Contact | If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation. |
| Inhalation | If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary. |
| Ingestion | Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor. |

Indication of any immediate medical attention and special treatment needed.

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

| | |
|---------------------|--|
| Extinguishing media | The product contains a substantial proportion of water, therefore there are no restrictions on the type of extinguishing media which may be used. Choice of extinguishing media should take into account surrounding areas. |
|---------------------|--|

Special hazards arising from the substrate or mixture.

| | |
|----------------------|------------|
| Fire incompatibility | None known |
|----------------------|------------|

Advice for firefighters

| | |
|-----------------------|--|
| Fire fighting | Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. Use firefighting procedures suitable for surrounding area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use. Slight hazard when exposed to heat, flame and oxidisers. |
| Fire/Explosion Hazard | Non-combustible. Not considered to be a significant fire risk. Expansion or decomposition on heating may lead to violent rupture of containers. Decomposes on heating and may produce toxic fumes of carbon monoxide (CO), carbon dioxide (CO ₂) and other pyrolysis products typical of burning organic material. May emit corrosive fumes. |

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

| | |
|--------------|---|
| Minor Spills | Clean up all spills immediately. Avoid contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up. Place in a suitable, labelled container for waste disposal. |
| Major Spills | Minor environmental hazard Control personal contact with the substance, by using protective equipment as required. Prevent spillage from entering drains or water ways. Absorb on sand, dirt, vermiculite or similar absorbent material. Place into labelled drums and dispose of according to local government regulations. Immediately notify emergency services (Police or Fire Brigade) if the spill is too large for you to safely and effectively handle. |
| PPE | Personal Protective Equipment advice is contained in Section 8 of the SDS. |

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

| | |
|-------------------|--|
| Safe handling | Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. DO NOT allow material to contact humans, exposed food or food utensils. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers. |
| Other information | Store away from incompatible materials. |

Conditions for safe storage, including any incompatibilities

| | |
|-------------------------|---|
| Suitable container | Polyethylene or polypropylene container. Packing as recommended by manufacturer. Check all containers are clearly labelled and free from leaks. |
| Storage incompatibility | None known |

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL) INGREDIENT DATA


| Source | Ingredient | Material name | TWA | STEL | Peak | Notes |
|------------------------------|-------------|-------------------|---------------------|----------------------|---------------|---------------|
| Australia Exposure Standards | isopropanol | Isopropyl alcohol | 400 ppm / 983 mg/m3 | 1230 mg/m3 / 500 ppm | Not Available | Not Available |

EMERGENCY LIMITS

| Ingredient | Material name | TEEL-1 | TEEL-2 | TEEL-3 |
|-------------|-------------------|---------|----------|-----------|
| isopropanol | Isopropyl alcohol | 400 ppm | 2000 ppm | 12000 ppm |

| Ingredient | Original IDLH | Revised IDLH |
|--|---------------|---------------|
| benzyl C8-18 alkyldimethylammonium chloride | Not Available | Not Available |
| isopropanol | 2000 ppm | Not Available |

Exposure controls

| | |
|----------------------------------|--|
| Appropriate engineering controls | Maintain adequate ventilation at all times. In most circumstances natural ventilation systems are adequate. If ventilation is poor, then the use of a local exhaust ventilation system is recommended. |
| Personal protection |  |
| Eye and face protection | Safety glasses with side shields OR Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. Lens should be removed at the first signs of eye redness or irritation. - Lens should be removed in a clean environment only after workers have washed hands thoroughly. |
| Skin protection | See Hand protection below |
| Hands/feet protection | Wear chemical protective gloves, Butyl, Neoprene or Viton are recommended for this application |
| Body protection | See Other protection below |
| Other protection | Overalls. Barrier cream. Skin cleansing cream. Eye wash unit. |
| Thermal hazards | Not Available |

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | | | |
|--|------------------|---|---------------|
| Appearance | Clear tan liquid | | |
| Physical state | Liquid | Relative density (Water = 1) | 1.0 |
| Odour | Floral | Viscosity (cSt) | Not Available |
| Odour threshold | Not Available | Auto-ignition temperature | Not Available |
| pH (as supplied) | 7.5 | Decomposition temperature | Not Available |
| Melting point / freezing point (°C) | Not Available | Partition coefficient n-octanol / water | Not Available |
| Initial boiling point and boiling range (°C) | Not Available | Surface Tension (dyn/cm or mN/m) | Not Available |
| Flash point (°C) | Not Applicable | Taste | Not Available |
| Evaporation rate | Not Available | Explosive properties | Not Available |
| Flammability | Not Applicable | Oxidising properties | Not Available |
| Upper Explosive Limit (%) | Not Applicable | Molecular weight (g/mol) | Not Available |
| Lower Explosive Limit (%) | Not Applicable | Volatile Component (%vol) | Not Available |
| Vapour pressure (kPa) | Not Available | Gas group | Not Available |
| Solubility in water (g/L) | Miscible | pH as a solution (1%) | Not Available |
| Vapour density (Air = 1) | Not Available | VOC g/L | Not Available |

SECTION 10 STABILITY AND REACTIVITY

| | |
|------------------------------------|--|
| Reactivity | See section 7 |
| Chemical stability | Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur. |
| Possibility of hazardous reactions | See section 7 |
| Conditions to avoid | See section 7 |
| Incompatible materials | See section 7 |
| Hazardous decomposition products | See section 5 |

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

| | |
|--------------|--|
| Inhaled | The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. |
| Ingestion | The material has NOT been classified by EC Directives or other classification systems as 'harmful by ingestion'. This is because of the lack of corroborating animal or human evidence. |
| Skin Contact | This material can cause inflammation of the skin on contact in some persons. The material may accentuate any pre-existing dermatitis condition. Skin contact is not thought to have harmful <u>health</u> effects (as classified under EC Directives). Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected. |
| Eye | If applied to the eyes, this material causes severe eye damage. Isopropanol vapour may cause mild eye irritation. Splashes may cause severe eye irritation, possible corneal burns and eye damage. Eye contact may cause tearing or blurring of vision. |
| Chronic | No applicable data. |

Toxicological effects of ingredients

| | | |
|---|--------------------------------|---|
| di-C12-18-alkyldimethyl ammonium chloride | Acute toxicity | Oral LD50 (rat) 720 mg/kg |
| | Skin corrosion/irritation | Corrosive |
| | Eye damage/irritation | Corrosive |
| | Respiratory/skin sensitization | not considered to be sensitising to skin. |
| | Germ cell mutagenicity | Not genotoxic |
| | Carcinogenicity | No information available |
| | Reproductive toxicity | Not toxic to reproduction |
| | STOT (single exposure) | May cause drowsiness or dizziness |
| | STOT (repeated exposure) | No information available |
| isopropanol | Aspiration toxicity | No information available |
| | Acute toxicity | Oral LD50 (rat) 5045 – 5840 mg/kg Dermal LD50 (rabbit) 12800 mg/kg Inhalation LC50 (rat) 16000 ppm/8h |
| | Skin corrosion/irritation | May be irritating to skin |
| | Eye damage/irritation | Causes serious eye irritation |
| | Respiratory/skin sensitization | Not expected to be a sensitizer |
| | Germ cell mutagenicity | Not considered to be a mutagenic hazard |
| | Carcinogenicity | Not considered to be a carcinogenic hazard. |
| | Reproductive toxicity | Not considered to be toxic to reproduction |
| | STOT (single exposure) | May cause drowsiness or dizziness |
| | STOT (repeated exposure) | Not expected to cause toxicity to a specific organ |
| | Aspiration toxicity | Not expected to be an aspiration hazard |

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

| | Endpoint | Duration (Hr.) | Species | Value |
|---|----------|----------------|-------------------------------|-----------|
| di-C12-18-alkyldimethyl ammonium chloride | LC50 | 96 | Fish | 0.26mg/L |
| | EC50 | 72 | Algae or other aquatic plants | 0.13mg/L |
| | EC10 | 72 | Algae or other aquatic plants | 0.062mg/L |
| | NOEC | 840 | Fish | 0.053mg/L |
| isopropanol | LC50 | 96 | Fish | 9-640mg/L |
| | EC50 | 48 | Crustacea | 12500mg/L |
| | EC50 | 72 | Algae or other aquatic plants | >1000mg/L |
| | EC0 | 24 | Crustacea | 5-102mg/L |
| | NOEC | 504 | Crustacea | =30mg/L |

DO NOT discharge into sewer or waterways.

Persistence and degradability

| Ingredient | Persistence: Water/Soil | Persistence: Air |
|---|---------------------------|--------------------------|
| benzyl C8-18 alkyldimethylammonium chloride | No data available | No data available |
| isopropanol | LOW (Half-life = 14 days) | LOW (Half-life = 3 days) |

Bio accumulative potential

| Ingredient | Bioaccumulation |
|---|---------------------|
| benzyl C8-18 alkyldimethylammonium chloride | No data available |
| isopropanol | LOW (LogKOW = 0.05) |

Mobility in soil

| Ingredient | Mobility |
|---|-------------------|
| benzyl C8-18 alkyldimethylammonium chloride | No data available |
| isopropanol | HIGH (KOC = 1.06) |

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

| | |
|------------------------------|--|
| Product / packaging disposal | Recycle containers whenever possible. Product residues and containers should be disposed of in accordance with local government regulations |
|------------------------------|--|

SECTION 14 TRANSPORT INFORMATION

Labels Required

| | |
|------------------|----------------|
| Marine Pollutant | NO |
| HAZCHEM | Not Applicable |

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

SECTION 15 REGULATORY INFORMATION

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

DI-C12-18-ALKYLDIMETHYLAMMONIUM CHLORIDE IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6
Australian Inventory of Industrial Chemicals (AIIC)

ISOPROPANOL IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals
Australian Inventory of Industrial Chemicals (AIIC)
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

SECTION 16 OTHER INFORMATION

Revision Schedule

| | |
|---------------|------------|
| Revision Date | 29/06/2021 |
| Initial Date | 08/12/2016 |

SDS Version Summary

| Version | Issue Date | Sections Updated |
|---------|------------|---|
| 2.1 | 29/06/2021 | Sections 3, 11, 12, 15, 16 have been updated or corrected |

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources such as the ECHA C&L Chemical Inventory, HSNO (CCID) New Zealand, AICIS and HCIS Australia

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Definitions and abbreviations

| | |
|----------|---|
| PC-TWA; | Permissible Concentration-Time Weighted Average |
| PC-STEL: | Permissible Concentration-Short Term Exposure Limit |
| IARC: | International Agency for Research on Cancer |
| ACGIH: | American Conference of Government Industrial Hygienists |
| STEL: | Short Term Exposure Limit |
| TEEL: | Temporary Emergency Exposure Limit |
| IDLH: | Immediate Danger to Life or Health Concentrations |
| OSF: | Odour Safety Factor |
| NOAEL: | No Observed Effects Level |
| TLV: | Threshold Limit Value |
| LOD: | Limit Of Detection |
| OTV: | Odour Threshold Value |
| BCF: | Bio Concentration Factors |
| BEI: | Biological Exposure Index |

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End of SDS