Dentsply Glastone 3000 Die Stone

Dentsply (Australia) Pty Ltd

Chemwatch: **4613-41** Version No: **4.1.1.1**

Safety Data Sheet according to WHS and ADG requirements

Chemwatch Hazard Alert Code: 2

Issue Date: **01/01/2013** Print Date: **19/01/2017** S.GHS.AUS.EN

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

Product Identifier

| Product name | Dentsply Glastone 3000 Die Stone |
|-------------------------------|----------------------------------|
| Synonyms | Calcium Sulfate Hemihydrate |
| Other means of identification | Not Available |

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

| Relevant identified uses | Die stone used in the manufacture of partial dentures. |
|--------------------------|--|
|--------------------------|--|

Details of the supplier of the safety data sheet

| Registered company name | Dentsply (Australia) Pty Ltd |
|-------------------------|--|
| Address | 11-21 Gilby Road Mount Waverley VIC 3149 Australia |
| Telephone | 1300 55 29 29 |
| Fax | +61 3 9538 8260 |
| Website | www.dentsply.com.au |
| Email | clientservices@dentsply.com |

Emergency telephone number

| Association / Organisation | Poisons Information Centre (AUSTRALIA) |
|-----------------------------------|--|
| Emergency telephone numbers | 13 11 26 - AUSTRALIA (24 hour service) |
| 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.

CHEMWATCH HAZARD RATINGS

| | Min | Max | |
|--------------|-----|-----|-------------------------------------|
| Flammability | 0 | | |
| Toxicity | 0 | | 0 = Minimum |
| Body Contact | 2 | | 1 = Low 2 = Moderate 3 = High |
| Reactivity | 0 | | |
| Chronic | 0 | | 4 = Extreme |

| Poisons Schedule | Not Applicable Eye Irritation Category 2A, Specific target organ toxicity - single exposure Category 3 (respiratory tract irritation) | |
|--------------------|--|--|
| Classification [1] | | |
| Legend: | 1. Classified by Chemwatch; 2. Classification drawn from HSIS; 3. Classification drawn from EC Directive 1272/2008 - Annex VI | |

Label elements

GHS label elements



| SIGNAL WORD | WARNING |
|-------------|---------|
| | |

Hazard statement(s)

| H319 | Causes serious eye irritation. | |
|------|-----------------------------------|--|
| H335 | May cause respiratory irritation. | |

Precautionary statement(s) Prevention

P271 Use only outdoors or in a well-ventilated area.

Chemwatch: 4613-41 Page 2 of 7

Version No: 4.1.1.1

Dentsply Glastone 3000 Die Stone

Issue Date: 01/01/2013 Print Date: 19/01/2017

| P261 | Avoid breathing dust/fumes. |
|------|--|
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |

Precautionary statement(s) Response

| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. | |
|----------------|--|--|
| P312 | Call a POISON CENTER or doctor/physician if you feel unwell. | |
| P337+P313 | If eye irritation persists: Get medical advice/attention. | |
| P304+P340 | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. | |

Precautionary statement(s) Storage

| P405 | Store locked up. |
|-----------|--|
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |

Precautionary statement(s) Disposal

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

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

| CAS No | %[weight] | Name |
|-----------|-----------|-----------------|
| 7778-18-9 | >60 | calcium sulfate |

SECTION 4 FIRST AID MEASURES

Description of first aid measures

| Eye Contact | |
|-------------|--|

- ▶ If in eyes, hold eyelids apart and flush the eye continuously with running water.
- Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. ► 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.
- Seek medical attention without delay; if pain persists or recurs seek medical attention.
- ▶ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

If skin or hair contact occurs:

- Flush skin and hair with running water (and soap if available).
- ▶ Seek medical attention in event of irritation. In case of burns:

- ▶ Immediately apply cold water to burn either by immersion or wrapping with saturated clean cloth.
- ▶ DO NOT remove or cut away clothing over burnt areas. DO NOT pull away clothing which has adhered to the skin as this can cause further injury.
- ► DO NOT break blister or remove solidified material.
- Skin Contact
 - ▶ Quickly cover wound with dressing or clean cloth to help prevent infection and to ease pain. For large burns, sheets, towels or pillow slips are ideal; leave holes for eyes, nose and mouth.
 - DO NOT apply ointments, oils, butter, etc. to a burn under any circumstances
 - Water may be given in small quantities if the person is conscious.
 - Alcohol is not to be given under any circumstances.
 - Reassure.
 - Treat for shock by keeping the person warm and in a lying position.
 - ▶ Seek medical aid and advise medical personnel in advance of the cause and extent of the injury and the estimated time of arrival of the patient.

Inhalation

- ▶ If fumes, aerosols or combustion products are inhaled remove from contaminated area
- ► Other measures are usually unnecessary.

Ingestion

- ► If swallowed do **NOT** induce vomiting
- If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.
- Observe the patient carefully.
- ▶ Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious
- Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.
- ► Seek medical advice.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

- ▶ There is no restriction on the type of extinguisher which may be used
- Use extinguishing media suitable for surrounding area.

Special hazards arising from the substrate or mixture

Fire Incompatibility ▶ Avoid strong acids, acid chlorides, acid anhydrides and chloroformates.

Advice for firefighters

Fire Fighting

▶ Alert Fire Brigade and tell them location and nature of hazard.

Version No: **4.1.1.1**

Dentsply Glastone 3000 Die Stone

Issue Date: **01/01/2013**Print Date: **19/01/2017**

| | 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 fire fighting procedures suitable for surrounding area. |
|-----------------------|--|
| Fire/Explosion Hazard | Non combustible. Not considered a significant fire risk, however containers may burn. Decomposition may produce toxic fumes of: sulfur oxides (SOx) calcium oxide |
| HAZCHEM | Not Applicable |

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

| Minor Spills | Clean up all spills immediately. Avoid contact with skin and eyes. Wear impervious gloves and safety glasses. Use dry clean up procedures and avoid generating dust. |
|--------------|---|
| Major Spills | Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Control personal contact with the substance, by using protective equipment and dust respirator. Prevent spillage from entering drains, sewers or water courses. |

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

| Safe handling | Limit all unnecessary personal contact. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. When handling DO NOT eat, drink or smoke. |
|-------------------|--|
| Other information | Store in original containers. Keep containers securely sealed. Store in a cool, dry area protected from environmental extremes. Store away from incompatible materials and foodst iff containers. |

Conditions for safe storage, including any incompatibilities

| Suitable container | ► Packaging as recommended by manufacturer. |
|-------------------------|---|
| Storage incompatibility | ► Avoid strong acids, acid chlorides, acid anhydrides and chloroformates. |

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 | calcium sulfate | Calcium sulphate | 10 mg/m3 | Not Available | Not Available | Not Available |

| EMERGENCY LIMITS

| Ingredient | Material name | | TEEL-1 | TEEL-2 | TEEL-3 |
|---------------------------------------|---|---------------|----------|-----------|-------------|
| calcium sulfate | Calcium(II) sulfate dihydrate (1:1:2) | | 30 mg/m3 | 330 mg/m3 | 2,000 mg/m3 |
| calcium sulfate | Calcium sulfate anhydrous; (Drierite; Gypsum; Plaster of Paris) | | 30 mg/m3 | 330 mg/m3 | 2,000 mg/m3 |
| Ingredient Original IDLH Revised IDLH | | | | | |
| calcium sulfate | Not Available | Not Available | | | |

Exposure controls

| Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly |
|---|
| effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. |

Appropriate engineering controls

The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.

Issue Date: **01/01/2013**Print Date: **19/01/2017**

Personal protection Chemical goggles. Eye and face protection ► Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Skin protection Hands/feet protection Wear general protective gloves, eg. light weight rubber gloves. **Body protection** See Other protection below Overalls. ▶ PVC Apron. Other protection ▶ PVC protective suit may be required if exposure severe. Eyewash unit. Thermal hazards Not Available

Respiratory protection

Particulate. (AS/NZS 1716 & 1715, EN 143:000 & 149:001, ANSI Z88 or national equivalent)

| Required Minimum Protection Factor | Half-Face Respirator | Full-Face Respirator | Powered Air Respirator |
|------------------------------------|----------------------|----------------------|------------------------|
| up to 10 x ES | P1 Air-line* | - | PAPR-P1 |
| up to 50 x ES | Air-line** | P2 | PAPR-P2 |
| up to 100 x ES | - | P3 | - |
| | | Air-line* | - |
| 100+ x ES | - | Air-line** | PAPR-P3 |

^{* -} Negative pressure demand ** - Continuous flow

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| • • | | | |
|--|---|---|----------------|
| Appearance | Pink, blue, green or ivory , odourless powder; does not mix wit | th water. | |
| Physical state | Divided Solid | Relative density (Water = 1) | 2.6-3.2 |
| Odour | Not Available | Partition coefficient n-octanol / water | Not Available |
| Odour threshold | Not Available | Auto-ignition temperature (°C) | Not Applicable |
| pH (as supplied) | Not Applicable | Decomposition temperature | 1450 |
| Melting point / freezing point (°C) | Not Applicable | Viscosity (cSt) | Not Applicable |
| Initial boiling point and boiling range (°C) | Not Applicable | Molecular weight (g/mol) | Not Applicable |
| 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 | Surface Tension (dyn/cm or mN/m) | Not Applicable |
| Lower Explosive Limit (%) | Not Applicable | Volatile Component (%vol) | 0 |
| Vapour pressure (kPa) | Not Applicable | Gas group | Not Available |
| Solubility in water (g/L) | Partly miscible | pH as a solution (1%) | Not Applicable |
| Vapour density (Air = 1) | Not Applicable | VOC g/L | Not Applicable |

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 |

Dentsply Glastone 3000 Die Stone

Issue Date: **01/01/2013**Print Date: **19/01/2017**

| Incompatible materials | See section 7 |
|----------------------------------|---------------|
| Hazardous decomposition products | See section 5 |

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

| Ingestion animal or human evidence. Material hardens when wetted, may cause obstruction. The material is not thought to be a skin irritant (as classified by EC Directives using animal models). Abrasive damage however, may result from prolonged exposures. Material may develop sufficient heat to cause burning or dry skin. Eye Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may cause transient discomfort characterised by tearing or conjunctival redness (as with windburn). Slight abrasive damage may also result. | normation on toxicologic | cai errects | | |
|--|----------------------------|--|---------------|--|
| animal or human evidence. Material hardens when wetted, may cause obstruction. The material is not thought to be a skin irritant (as classified by EC Directives using animal models). Abrasive damage however, may result from prolonged exposures. Material may develop sufficient heat to cause burning or dry skin. Eye Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may cause transient discomfort characterised by tearing or conjunctival redness (as with windburn). Slight abrasive damage may also result. Long term exposure to high dust concentrations may cause changes in lung function i.e. pneumoconiosis, caused by particles less than 0.5 micron penetrating and remaining in the lung. Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course. TOXICITY IRRITATION | Inhaled | | | |
| Skin Contact exposures. Material may develop sufficient heat to cause burning or dry skin. Eye | Ingestion | | | |
| by tearing or conjunctival redness (as with windburn). Slight abrasive damage may also result. Long term exposure to high dust concentrations may cause changes in lung function i.e. pneumoconiosis, caused by particles less than 0.5 micron penetrating and remaining in the lung. Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course. TOXICITY Not Available TOXICITY Not Available TOXICITY IRRITATION Not Available Legend: 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data | Skin Contact | exposures. | | |
| Chronic and remaining in the lung. Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course. Dentsply Glastone 3000 Die Stone TOXICITY IRRITATION | Eye | Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may cause transient discomfort characterised by tearing or conjunctival redness (as with windburn). Slight abrasive damage may also result. | | |
| Not Available Not Available | Chronic | Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); | | |
| Not Available Not Available | | | | |
| calcium sulfate TOXICITY Oral (rat) LD50: >1581 mg/kg ^[1] Rot Available IRRITATION Not Available Legend: 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data | Dentsply Glastone 3000 Die | TOXICITY | IRRITATION | |
| Calcium sulfate Oral (rat) LD50: >1581 mg/kg ^[1] Not Available Legend: 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data | Stone | Not Available | Not Available | |
| Oral (rat) LD50: >1581 mg/kg ^[1] Not Available Legend: 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data | calcium sulfate | TOXICITY | IRRITATION | |
| , , | | Oral (rat) LD50: >1581 mg/kg ^[1] | Not Available | |
| | Legend: | , , , | | |

CALCIUM SULFATE

Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of RADS.

Gypsum (calcium sulfate dihydrate) is a skin, eye, mucous membrane, and respiratory system irritant. Early studies of gypsum miners did not relate pneumoconiosis with chronic exposure to gypsum. Other studies in humans (as well as animals) showed no lung fibrosis produced by natural dusts of calcium sulfate except in the presence of silica. However, a series of studies reported chronic nonspecific respiratory diseases in gypsum industry workers in Gacki, Poland.

| Acute Toxicity | 0 | Carcinogenicity | 0 |
|-----------------------------------|----------|--------------------------|----------|
| Skin Irritation/Corrosion | 0 | Reproductivity | 0 |
| Serious Eye Damage/Irritation | ~ | STOT - Single Exposure | ✓ |
| Respiratory or Skin sensitisation | 0 | STOT - Repeated Exposure | 0 |
| Mutagenicity | 0 | Aspiration Hazard | 0 |

Legend:

🗶 – Data available but does not fill the criteria for classification

✓ – Data required to make classification available
 ○ – Data Not Available to make classification

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

| Ingredient | Endpoint | Test Duration (hr) | Species | Value | Source |
|-----------------|---|--------------------|-------------------------------|---------------|--------|
| calcium sulfate | LC50 | 96 | Fish | >1970mg/L | 4 |
| calcium sulfate | EC50 | 96 | Algae or other aquatic plants | 105.72278mg/L | 3 |
| calcium sulfate | EC0 | 96 | Crustacea | =1255.000mg/L | 1 |
| calcium sulfate | NOEC | 504 | Crustacea | 360mg/L | 4 |
| Legend: | Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - | | | | |

Persistence and degradability

| _ | - | |
|-----------------|-------------------------|------------------|
| Ingredient | Persistence: Water/Soil | Persistence: Air |
| calcium sulfate | HIGH | HIGH |

Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

Dentsply Glastone 3000 Die Stone

Issue Date: **01/01/2013**Print Date: **19/01/2017**

Bioaccumulative potential

| Ingredient | Bioaccumulation |
|-----------------|------------------------|
| calcium sulfate | LOW (LogKOW = -2.2002) |

Mobility in soil

| Ingredient | Mobility |
|-----------------|-------------------|
| calcium sulfate | LOW (KOC = 6.124) |

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product / Packaging disposal

- Recycle wherever possible.
- Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility
 can be identified.
- ► Dispose of by: burial in a land-fill specifically licenced to accept chemical and / or pharmaceutical wastes or Incineration in a licenced apparatus (after admixture with suitable combustible material)
- ▶ Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

SECTION 14 TRANSPORT INFORMATION

Labels Required

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

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

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

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

Not Applicable

SECTION 15 REGULATORY INFORMATION

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

CALCIUM SULFATE(7778-18-9) IS FOUND ON THE FOLLOWING REGULATORY LISTS

| Australia Exposure Standards | Australia Inventory of Chemical Substances (AICS) | |
|----------------------------------|---|--|
| National Inventory | Status | |
| Australia - AICS | Υ | |
| Canada - DSL | Υ | |
| Canada - NDSL | N (calcium sulfate) | |
| China - IECSC | Υ | |
| Europe - EINEC / ELINCS / NLP | Y | |
| Japan - ENCS | Y | |
| Korea - KECI | Υ | |
| New Zealand - NZIoC | Υ | |
| Philippines - PICCS | Υ | |
| USA - TSCA | Υ | |
| Legend: | Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets) | |

SECTION 16 OTHER INFORMATION

Other information

Ingredients with multiple cas numbers

| mgrodionic with manapic ode numbers | |
|-------------------------------------|-----------------------|
| Name | CAS No |
| calcium sulfate | 7778-18-9, 10101-41-4 |

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

A list of reference resources used to assist the committee may be found at:

www.chemwatch.net

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other

Chemwatch: **4613-41** Page **7** of **7** Issue Date: **01/01/2013**

Version No: 4.1.1.1 Dentsply Glastone 3000 Die Stone Print Date: 19/01/2017

settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

Definitions and abbreviations

 ${\sf PC-TWA: Permissible \ Concentration-Time \ Weighted \ Average}$

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit。

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value

LOD: Limit Of Detection

OTV: Odour Threshold Value

BCF: BioConcentration Factors

BEI: Biological Exposure Index

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