

Dentsply Degunorm Supra

Dentsply (Australia) Pty Ltd

Chemwatch Hazard Alert Code: 0

Chemwatch: 41-9159

Version No: 2.1.1.1

Safety Data Sheet according to WHS and ADG requirements

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S.GHS.AUS.EN

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

Product Identifier

| | |
|-------------------------------|-------------------------|
| Product name | Dentsply Degunorm Supra |
| Synonyms | Degunorm Supra |
| Other means of identification | Not Available |

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

| | |
|--------------------------|---|
| Relevant identified uses | Use according to manufacturer's directions. |
|--------------------------|---|

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

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

CHEMWATCH HAZARD RATINGS

| | Min | Max |
|--------------|-----|-----|
| Flammability | 0 | |
| Toxicity | 0 | |
| Body Contact | 0 | |
| Reactivity | 0 | |
| Chronic | 0 | |

0 = Minimum
1 = Low
2 = Moderate
3 = High
4 = Extreme

| | |
|------------------|----------------|
| Poisons Schedule | Not Applicable |
| Classification | Not Applicable |

Label elements

| | |
|--------------------|----------------|
| GHS label elements | Not Applicable |
|--------------------|----------------|

| | |
|-------------|-----------------------|
| SIGNAL WORD | NOT APPLICABLE |
|-------------|-----------------------|

Hazard statement(s)

Not Applicable

Precautionary statement(s) Prevention

Not Applicable

Precautionary statement(s) Response

Not Applicable

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

Continued...

Not Applicable

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**Substances**

See section below for composition of Mixtures

Mixtures

| CAS No | %[weight] | Name |
|---------------|-----------|-----------------------------|
| 7440-57-5 | 73.2 | <u>gold</u> |
| 7440-22-4 | 13.8 | <u>silver</u> |
| 7440-05-3 | 6.3 | <u>palladium</u> |
| 7440-66-6 | 2.9 | <u>zinc</u> |
| 7440-06-4 | 3.2 | <u>platinum</u> |
| 7440-31-5 | 0.5 | <u>tin</u> |
| 7439-88-5 | 0.1 | <u>iridium</u> |
| Not Available | NotSpec. | during processing, releases |
| 1314-13-2 | NotSpec. | <u>zinc oxide fume</u> |

SECTION 4 FIRST AID MEASURES**Description of first aid measures**

| | |
|---------------------|---|
| Eye Contact | <p>If this product comes in contact with the eyes:</p> <ul style="list-style-type: none"> ▶ Wash out immediately with fresh 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. ▶ 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. |
| Skin Contact | <p>If skin or hair contact occurs:</p> <ul style="list-style-type: none"> ▶ Flush skin and hair with running water (and soap if available). ▶ Seek medical attention in event of irritation. |
| Inhalation | <ul style="list-style-type: none"> ▶ If dust is inhaled, remove from contaminated area. ▶ Encourage patient to blow nose to ensure clear passage of breathing. ▶ If irritation or discomfort persists seek medical attention. |
| Ingestion | <ul style="list-style-type: none"> ▶ 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**

- ▶ Water spray or fog.
- ▶ Foam.
- ▶ Dry chemical powder.
- ▶ BCF (where regulations permit).

Special hazards arising from the substrate or mixture

| | |
|-----------------------------|-------------|
| Fire Incompatibility | None known. |
|-----------------------------|-------------|

Advice for firefighters

| | |
|------------------------------|--|
| Fire Fighting | <ul style="list-style-type: none"> ▶ Alert Fire Brigade and tell them location and nature of hazard. ▶ Wear breathing apparatus plus protective gloves. ▶ Prevent, by any means available, spillage from entering drains or water courses. ▶ Use water delivered as a fine spray to control fire and cool adjacent area. |
| Fire/Explosion Hazard | <ul style="list-style-type: none"> ▶ Non combustible. ▶ Not considered a significant fire risk, however containers may burn. <p>Combustion products include:</p> <p>metal oxides</p> |
| 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 | <ul style="list-style-type: none"> ▶ Clean up all spills immediately. ▶ Secure load if safe to do so. ▶ Bundle/collect recoverable product. ▶ Collect remaining material in containers with covers for disposal. |
| Major Spills | <ul style="list-style-type: none"> ▶ 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. ▶ 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 | <ul style="list-style-type: none"> ▶ Limit all unnecessary personal contact. ▶ Wear protective clothing when risk of exposure occurs. ▶ Use in a well-ventilated area. ▶ Avoid contact with incompatible materials. |
| Other information | <ul style="list-style-type: none"> ▶ Keep dry. ▶ Store under cover. ▶ Protect containers against physical damage. ▶ Observe manufacturer's storage and handling recommendations contained within this SDS. |

Conditions for safe storage, including any incompatibilities

| | |
|--------------------------------|---|
| Suitable container | <ul style="list-style-type: none"> ▶ Check that containers are clearly labelled ▶ Packaging as recommended by manufacturer. |
| 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 | silver | Silver, metal | 0.1 mg/m3 | Not Available | Not Available | Not Available |
| Australia Exposure Standards | palladium | Fume (thermally generated) (respirable dust) | 2 mg/m3 | Not Available | Not Available | Not Available |
| Australia Exposure Standards | zinc | Fume (thermally generated) (respirable dust) | 2 mg/m3 | Not Available | Not Available | Not Available |
| Australia Exposure Standards | platinum | Platinum, metal | 1 mg/m3 | Not Available | Not Available | Not Available |
| Australia Exposure Standards | tin | Tin, metal | 2 mg/m3 | Not Available | Not Available | Not Available |
| Australia Exposure Standards | iridium | Fume (thermally generated) (respirable dust) | 2 mg/m3 | Not Available | Not Available | Not Available |
| Australia Exposure Standards | zinc oxide fume | Zinc oxide (dust) / Zinc oxide (fume) | 10 mg/m3 / 5 mg/m3 | 10 mg/m3 | Not Available | Not Available |

EMERGENCY LIMITS

| Ingredient | Material name | TEEL-1 | TEEL-2 | TEEL-3 |
|-----------------|---------------|------------|-----------|-------------|
| gold | Gold | 0.46 mg/m3 | 5.1 mg/m3 | 30 mg/m3 |
| silver | Silver | 0.3 mg/m3 | 170 mg/m3 | 990 mg/m3 |
| palladium | Palladium | 6 mg/m3 | 66 mg/m3 | 400 mg/m3 |
| zinc | Zinc | 6 mg/m3 | 21 mg/m3 | 120 mg/m3 |
| platinum | Platinum | 3 mg/m3 | 33 mg/m3 | 200 mg/m3 |
| tin | Tin | 6 mg/m3 | 67 mg/m3 | 400 mg/m3 |
| iridium | Iridium | 4.7 mg/m3 | 51 mg/m3 | 310 mg/m3 |
| zinc oxide fume | Zinc oxide | 10 mg/m3 | 15 mg/m3 | 2,500 mg/m3 |

| Ingredient | Original IDLH | Revised IDLH |
|-----------------------------|---|----------------------|
| gold | Not Available | Not Available |
| silver | N.E. mg/m3 / N.E. ppm | 10 mg/m3 |
| palladium | Not Available | Not Available |
| zinc | Not Available | Not Available |
| platinum | N.E. mg/m3 / N.E. ppm | 4 mg/m3 |
| tin | Unknown mg/m3 / 400 mg/m3 / Unknown ppm | 25 mg/m3 / 100 mg/m3 |
| iridium | Not Available | Not Available |
| during processing, releases | Not Available | Not Available |
| zinc oxide fume | 2,500 mg/m3 | 500 mg/m3 |

Exposure controls

| | |
|---|---|
| Appropriate engineering controls | General exhaust is adequate under normal operating conditions. |
| Personal protection |  |
| Eye and face protection | No special equipment for minor exposure i.e. when handling small quantities. OTHERWISE: <ul style="list-style-type: none"> ▶ Safety glasses with side shields. ▶ 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. If dust occurs: basket-shaped glasses. |
| Skin protection | See Hand protection below |
| Hands/feet protection | No special equipment required due to the physical form of the product. |
| Body protection | See Other protection below |
| Other protection | No special equipment needed when handling small quantities. OTHERWISE: <ul style="list-style-type: none"> ▶ Overalls. ▶ Barrier cream. ▶ 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)

None under normal operating conditions.

- ▶ Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.
- ▶ The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure - ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option).
- ▶ Published occupational exposure limits, where they exist, will assist in determining the adequacy of the selected respiratory protection. These may be government mandated or vendor recommended.
- ▶ Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection program.
- ▶ Use approved positive flow mask if significant quantities of dust becomes airborne.
- ▶ Try to avoid creating dust conditions.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | | | |
|---|-------------------------|--|----------------|
| Appearance | Yellow odourless solid. | | |
| Physical state | Solid | Relative density (Water = 1) | 16.1 |
| 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 | Not Available |
| Melting point / freezing point (°C) | 1035-1080 | 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 Applicable | 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) | Not Applicable |

| | | | |
|---------------------------|----------------|-----------------------|----------------|
| Vapour pressure (kPa) | Not Applicable | Gas group | Not Available |
| Solubility in water (g/L) | Not Available | 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 | Product is considered stable and 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 | Not normally a hazard due to physical form of product. Generated dust may be discomforting [When melting, soldering and grinding: do not breathe dusts and vapours. Zinc oxide fumes is released during processing. |
| Ingestion | Not normally a hazard due to physical form of product. Considered an unlikely route of entry in commercial/industrial environments |
| Skin Contact | Not normally a hazard due to physical form of product. |
| Eye | Not normally a hazard due to physical form of product. Generated dust may be discomforting |
| Chronic | ► Hazard relates to dust released by sawing, cutting, sanding, trimming or other finishing operations. 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. |

| | | |
|-------------------------|---|--------------------------------|
| Dentsply Degunorm Supra | TOXICITY | IRRITATION |
| | Not Available | Not Available |
| gold | TOXICITY | IRRITATION |
| | Not Available | Not Available |
| silver | TOXICITY | IRRITATION |
| | Oral (rat) LD50: >2000 mg/kg ^[1] | Not Available |
| palladium | TOXICITY | IRRITATION |
| | Not Available | Not Available |
| zinc | TOXICITY | IRRITATION |
| | Dermal (rabbit) LD50: 1130 mg/kg ^[2] | Not Available |
| | Oral (rat) LD50: >2000 mg/kg ^[1] | |
| platinum | TOXICITY | IRRITATION |
| | Not Available | Not Available |
| tin | TOXICITY | IRRITATION |
| | dermal (rat) LD50: >2000 mg/kg ^[1] | Not Available |
| | Oral (rat) LD50: >2000 mg/kg ^[1] | |
| iridium | TOXICITY | IRRITATION |
| | Not Available | Not Available |
| zinc oxide fume | TOXICITY | IRRITATION |
| | Oral (rat) LD50: >5000 mg/kg ^[1] | Eye (rabbit): 500 mg/24h mild |
| | | Skin (rabbit): 500 mg/24h mild |

Legend: 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

GOLD Substance has been investigated as a tumorigen by implantation in rodents:

| | |
|--|--|
| PLATINUM | The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions. |
| ZINC OXIDE FUME | The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. |
| PALLADIUM & PLATINUM & TIN & IRIIDIUM | No significant acute toxicological data identified in literature search. |
| ZINC & ZINC OXIDE FUME | The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. |

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

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 |
|-----------------|----------|--------------------|-------------------------------|-----------------|--------|
| silver | LC50 | 96 | Fish | 0.00148mg/L | 2 |
| silver | EC50 | 48 | Crustacea | 0.00024mg/L | 4 |
| silver | EC50 | 96 | Algae or other aquatic plants | 0.001628837mg/L | 4 |
| silver | BCF | 336 | Crustacea | 0.02mg/L | 4 |
| silver | EC50 | 48 | Crustacea | 0.00024mg/L | 4 |
| silver | NOEC | 480 | Crustacea | 0.00031mg/L | 2 |
| zinc | LC50 | 96 | Fish | 0.00272mg/L | 4 |
| zinc | EC50 | 48 | Crustacea | 0.04mg/L | 5 |
| zinc | EC50 | 72 | Algae or other aquatic plants | 0.106mg/L | 4 |
| zinc | BCF | 360 | Algae or other aquatic plants | 9mg/L | 4 |
| zinc | EC50 | 120 | Fish | 0.00033mg/L | 5 |
| zinc | NOEC | 336 | Algae or other aquatic plants | 0.00075mg/L | 4 |
| tin | LC50 | 96 | Fish | >0.0124mg/L | 2 |
| tin | EC50 | 48 | Crustacea | 0.00018mg/L | 5 |
| tin | EC50 | 72 | Algae or other aquatic plants | >0.0192mg/L | 2 |
| tin | EC50 | 72 | Algae or other aquatic plants | >0.0192mg/L | 2 |
| tin | NOEC | 168 | Crustacea | <0.005mg/L | 2 |
| zinc oxide fume | LC50 | 96 | Fish | 0.439mg/L | 2 |
| zinc oxide fume | EC50 | 48 | Crustacea | 0.105mg/L | 2 |
| zinc oxide fume | EC50 | 72 | Algae or other aquatic plants | 0.042mg/L | 4 |
| zinc oxide fume | BCF | 336 | Fish | 4376.673mg/L | 4 |
| zinc oxide fume | EC20 | 72 | Algae or other aquatic plants | 0.023mg/L | 4 |
| zinc oxide fume | NOEC | 72 | Algae or other aquatic plants | 0.0049mg/L | 2 |

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

DO NOT discharge into sewer or waterways.

Persistence and degradability

| Ingredient | Persistence: Water/Soil | Persistence: Air |
|------------|---------------------------------------|---------------------------------------|
| | No Data available for all ingredients | No Data available for all ingredients |

Bioaccumulative potential

| Ingredient | Bioaccumulation |
|-----------------|-----------------|
| zinc oxide fume | LOW (BCF = 217) |

Mobility in soil

| Ingredient | Mobility |
|------------|---------------------------------------|
| | No Data available for all ingredients |

Continued...

SECTION 13 DISPOSAL CONSIDERATIONS**Waste treatment methods**

| | |
|-------------------------------------|--|
| Product / Packaging disposal | <ul style="list-style-type: none"> ▶ Recycle wherever possible or consult manufacturer for recycling options. ▶ Consult State Land Waste Management Authority for disposal. ▶ Bury residue in an authorised landfill. ▶ Recycle containers if possible, or dispose of in an authorised landfill. |
|-------------------------------------|--|

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****GOLD(7440-57-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS**

Australia Inventory of Chemical Substances (AICS)

SILVER(7440-22-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards

Australia Hazardous Substances Information System - Consolidated Lists

Australia Inventory of Chemical Substances (AICS)

PALLADIUM(7440-05-3) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards

Australia Inventory of Chemical Substances (AICS)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

ZINC(7440-66-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards

Australia Hazardous Substances Information System - Consolidated Lists

Australia Inventory of Chemical Substances (AICS)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

PLATINUM(7440-06-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards

Australia Hazardous Substances Information System - Consolidated Lists

Australia Inventory of Chemical Substances (AICS)

TIN(7440-31-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards

Australia Hazardous Substances Information System - Consolidated Lists

Australia Inventory of Chemical Substances (AICS)

IRIDIUM(7439-88-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards

Australia Inventory of Chemical Substances (AICS)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

ZINC OXIDE FUME(1314-13-2) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards

Australia Hazardous Substances Information System - Consolidated Lists

Australia Inventory of Chemical Substances (AICS)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

| National Inventory | Status |
|-------------------------------|--|
| Australia - AICS | Y |
| Canada - DSL | Y |
| Canada - NDSL | N (platinum; zinc; iridium; zinc oxide fume; palladium; gold; tin; silver) |
| China - IECSC | N (iridium) |
| Europe - EINEC / ELINCS / NLP | Y |
| Japan - ENCS | N (platinum; zinc; iridium; palladium; gold; tin; silver) |
| Korea - KECI | Y |
| New Zealand - NZIoC | Y |
| Philippines - PICCS | N (iridium) |
| USA - TSCA | Y |

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**

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 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

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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