

SAFETY DATA SHEET

FREEWAY FLOOR CLEANER

Infosafe No.: MU3JZ
ISSUED Date : 26/04/2017
ISSUED by: INTEGRA INDUSTRIES LTD

CLASSIFIED AS HAZARDOUS

1. IDENTIFICATION

GHS Product Identifier

FREEWAY FLOOR CLEANER

Product Code

2033160, 2033150, 2033140, 2035330, 7108270

Company Name

INTEGRA INDUSTRIES LTD

Address

23 Grosvenor Street Kensington
Dunedin 9011 NEW ZEALAND

Telephone/Fax Number

Tel: +64 3 4556805

Emergency phone number

0800 764 766

E-mail Address

info@integraindustries.co.nz

Recommended use of the chemical and restrictions on use

Cleaning and degreasing hard surfaces.

2. HAZARD IDENTIFICATION

GHS classification of the substance/mixture

Classified as Hazardous according to the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001, New Zealand. Not classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433:2012 Transport of Dangerous Goods on Land.

6.3A Substance that is irritating to the skin

6.5A Substance that is a respiratory sensitiser

6.5B Substance that is a contact sensitiser

6.8A Substance that is known or presumed to be a human reproductive or developmental toxicant

8.3A Substance that is corrosive to ocular tissue

9.1C Substance that is harmful in the aquatic environment

Signal Word (s)

DANGER

Hazard Statement (s)

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H360 May damage fertility or the unborn child.

H402 Harmful to aquatic life.

Pictogram (s)

Corrosion, Health hazard



Precautionary statement – Prevention

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264 Wash contaminated skin 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.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement – Response

- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P304+P341 IF INHALED: If breathing is difficult, remove victim 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.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P310 Immediately call a POISON CENTER or doctor/physician.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
- P363 Wash contaminated clothing before reuse.

Precautionary statement – Storage

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

| Name | CAS | Proportion |
|---|------------|---------------|
| Isopropanol | 67-63-0 | 5-10% |
| Ethylene glycol monobuytl ether | 111-76-2 | 1-5% |
| Benzyl-C8-18-alkyldimethylammonium chloride | 63449-41-2 | <1% |
| EDTA Tetrasodium Salt | 64-02-8 | <1% |
| Surfactant | - | Not specified |
| Pine oil | 8002-09-3 | Not specified |
| Red Dye | - | Not specified |
| Water | 7732-18-5 | Remainder |

4. FIRST-AID MEASURES

First Aid Measures

- 24 Hour Emergency Contact: 0800 CHEMCALL (0800 243 622)
- New Zealand Poisons Information Centre: 0800 POISON (0800 764 766)
- New Zealand Emergency Services: 111

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.
- For advice, contact a Poisons Information Centre or a doctor

Skin

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.

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.

Advice to Doctor

Treat symptomatically.

For acute or short term repeated exposures to ethylene glycol:

- Early treatment of ingestion is important. Ensure emesis is satisfactory.
- Test and correct for metabolic acidosis and hypocalcaemia.
- Apply sustained diuresis when possible with hypertonic mannitol.
- Evaluate renal status and begin haemodialysis if indicated. [I.L.O].

5. FIRE-FIGHTING MEASURES

Suitable 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.

Though the material is non-combustible, evaporation of water from the mixture, caused by the heat of nearby fire, may produce floating layers of combustible substances.

In such an event consider:

- foam.

Hazards from Combustion Products

- The material is not readily combustible under normal conditions.
- However, it will break down under fire conditions and the organic component may burn.
- Not considered to be a significant fire risk.
- Heat may cause expansion or decomposition with violent rupture of containers.

Decomposes on heating and produces toxic fumes of: carbon dioxide (CO₂), hydrogen chloride, phosgene, nitrogen oxides (NO_x), other pyrolysis products typical of burning organic material.

May emit poisonous fumes. May emit corrosive fumes.

Hazchem Code

None allocated

Decomposition Temperature

Not Available

Other Information

FIRE INCOMPATIBILITY

☐None known.

PERSONAL PROTECTION

Glasses: Chemical goggles.

Gloves: 1.NEOPRENE 2.NATURAL RUBBER

Respirator: Type A- P Filter of sufficient capacity

6. ACCIDENTAL RELEASE MEASURES

Spills & Disposal

- Clean up all spills immediately.
- Avoid breathing vapours and contact with skin and eyes.
- Control personal contact by using protective equipment.
- Contain and absorb spill with sand, earth, inert material or vermiculite.

7. HANDLING AND STORAGE

Precautions for Safe Handling

- DO NOT allow clothing wet with material to stay in contact with skin.
- Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- Prevent concentration in hollows and sumps.

Storage Regulations

- Store in original containers.
- Keep containers securely sealed.
- Store in a cool, dry, well-ventilated area.
- Store away from incompatible materials and foodstuff containers.

Recommended Materials

SUITABLE CONTAINER

- Polyethylene or polypropylene container.
- Packing as recommended by manufacturer.
- Check all containers are clearly labelled and free from leaks.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit values

Source: New Zealand Workplace Exposure Standards

| Material | TWA (ppm) | TWA(mg/m3) | STEL (ppm) | STEL(mg/m3) | Notes |
|---------------------------------|-----------|------------|------------|-------------|-------|
| Isopropanol | 400 | 983 | 500 | 1,230 | - |
| Ethylene glycol monobutyl ether | 25 | 121 | - | - | skin |

The following materials had no OELs on our records

- benzyl C8- 18 alkyldimethylammonium chloride: CAS:63449- 41- 2 CAS:51668- 62- 3
- EDTA tetrasodium salt: CAS:64- 02- 8 CAS:10378- 23- 1 CAS:13235- 36-4
- pine oil: CAS:8002- 09- 3
- water: CAS:7732- 18- 5

Appropriate Engineering Controls

General exhaust is adequate under normal operating conditions. Local exhaust ventilation may be required in special circumstances

Personal Protective Equipment

RESPIRATOR

Type A-P Filter of sufficient capacity

EYE

- Safety glasses with side shields.
- Chemical goggles.
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lens 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. Medical and first-aid personnel should be trained in their

removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. 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. [CDC NIOSH Current Intelligence Bulletin 59].

HANDS/FEET

- Wear chemical protective gloves, eg. PVC.
- Wear safety footwear or safety gumboots, eg. Rubber. NOTE:
- The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.
- Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.

Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: such as:

- frequency and duration of contact,
- chemical resistance of glove material,
- glove thickness and
- dexterity.

OTHER

- Overalls.
- P.V.C. apron.
- Barrier cream.
- Skin cleansing cream.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form

Liquid

Appearance

Clear red liquid with pine and lemon odour; mixes with water.

Colour

Red

Odour

Pine and lemon odour

Decomposition Temperature

Not Available

Melting Point

Not Available

Boiling Point

Not Available

Solubility in Water

Miscible

Specific Gravity

0.995 @ 20°C

pH

pH (1% solution) = Not Available

pH (as supplied) = 11.0 - 11.49

Vapour Pressure

Not available

Evaporation Rate

Not available

Viscosity

Not available

Flash Point

Not Available

Auto-Ignition Temperature

Not Available

Explosion Limit - Upper

Not Available

Explosion Limit - Lower

Not Available

Molecular Weight

Not applicable

10. STABILITY AND REACTIVITY

Chemical Stability

- Product is considered stable.

Incompatible materials

For incompatible materials - refer to Section 7 - Handling and Storage.

Hazardous Polymerization

- Hazardous polymerisation will not occur

Other Information**CONDITIONS CONTRIBUTING TO INSTABILITY**

- Presence of incompatible materials.

11. TOXICOLOGICAL INFORMATION

Inhalation

Although inhalation is not thought to produce harmful effects (as classified under EC Directives), the material may still produce health damage, especially where pre-existing organ (e.g liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally confined to doses producing mortality rather than those producing morbidity (disease, ill-health).

Skin

The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.

Eye

- Limited evidence exists, or practical experience suggests, that the material may cause eye irritation in a substantial number of individuals and/or is expected to produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals. Repeated or prolonged eye contact may cause inflammation characterised by temporary redness (similar to windburn) of the conjunctiva (conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur.

- Isopropanol vapour may cause mild eye irritation at 400 ppm. Splashes may cause severe eye irritation, possible corneal burns and eye damage.

Carcinogenicity**CARCINOGEN**

| | | | |
|--|---|-------|------|
| Isopropanol | International Agency for Research on Cancer (IARC) - Agents Reviewed by the IARC Monographs | Group | 3 |
| 2- Butoxyethanol | International Agency for Research on Cancer (IARC) - Agents Reviewed by the IARC Monographs | Group | 3 |
| SKIN Ethylene glycol Monobutyl ether | New Zealand Workplace Exposure Standards (WES) - Skin | Notes | Skin |

Chronic Effects

Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving organs or biochemical systems.

Limited evidence shows that inhalation of the material is capable of inducing a sensitisation reaction in a significant number of individuals at a greater frequency than would be expected from the response of a normal population.

Pulmonary sensitisation, resulting in hyperactive airway dysfunction and pulmonary allergy may be accompanied by fatigue, malaise and aching.

There exists limited evidence that shows that skin contact with the material is capable either of inducing a sensitisation reaction in a significant number of individuals, and/or of producing positive response in experimental animals.

There is some evidence that human exposure to the material may result in developmental toxicity. This evidence is based on animal studies where effects have been observed in the absence of marked maternal toxicity, or at around the same dose levels as other toxic effects but which are not secondary non-specific consequences of the other toxic effects.

Exposure to the material may cause concerns for human fertility, on the basis that similar materials provide some evidence of impaired fertility in

the absence of toxic effects, or evidence of impaired fertility occurring at around the same dose levels as other toxic effects, but which are not a secondary non-specific consequence of other toxic effects.

In the presence of air, a number of common flavour and fragrance chemicals can form peroxides surprisingly fast. Antioxidants can in most cases minimise the oxidation.

On the basis, primarily, of animal experiments, concern has been expressed that the material may produce carcinogenic or mutagenic effects; in respect of the available information, however, there presently exists inadequate data for making a satisfactory assessment.

Long term or repeated ingestion exposure of isopropanol may produce incoordination, lethargy and reduced weight gain. Repeated inhalation exposure to isopropanol may produce narcosis, incoordination and liver degeneration.

Other Information

TOXICITY AND IRRITATION

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.

d-Limonene is readily absorbed by inhalation and ingestion. Dermal absorption is reported to be lower than by the inhalation route.

Limonene exhibits low acute toxicity by all three routes in animals.

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.

12. ECOLOGICAL INFORMATION

Ecological information

Pine oil 96 hr LC50 (54.82) mg/L Bluegill Fish Source:

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

| Ingredient | | | Persistence:Water/Soil | | Persistence: |
|---------------------------------|-----------------|----------|------------------------|-----|--------------|
| Air | Bioaccumulation | Mobility | | | |
| Isopropanol | | LOW | MED | LOW | HIGH |
| Ethylene glycol monobutyl ether | | LOW | LOW | LOW | HIGH |
| Benzyl C8- 18 | | - | - | LOW | - |
| alkyldimethylammonium chloride | | | | | |
| Water | | LOW | - | LOW | HIGH |

13. DISPOSAL CONSIDERATIONS

Waste Disposal

- Recycle where possible

Otherwise ensure that:

- licenced contractors dispose of the product and its container.
- disposal occurs at a licenced facility.

14. TRANSPORT INFORMATION

Transport Information

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS: UN, IATA, IMDG

U.N. Number

None Allocated

UN proper shipping name

None Allocated

Transport hazard class(es)

None allocated

Sub.Risk

None allocated

Packing Group

None allocated

Hazchem Code

None allocated

UN Number (Sea Transport)

None allocated

UN Number (Road Transport)

None allocated

UN Number (Air Transport, ICAO)

None allocated

IATA/ICAO Hazard Class

None allocated

IATA/ICAO Packing Group

None allocated

IATA/ICAO Sub Risk

None allocated

IMDG UN No

None allocated

IMDG Hazard Class

None allocated

IMDG Pack. Group

None allocated

IMDG Subsidiary Risk

None allocated

15. REGULATORY INFORMATION

Regulatory information

This substance should be managed in accordance with the requirements specified in the Cleaning Products (Subsidiary Hazard) Group Standard 2006, HSNO Approval Number HSR002530.

National and or International Regulatory Information

Regulations for ingredients

Isopropanol (CAS: 67-63-0) is found on the following regulatory lists;

"GESAMP/EHS Composite List - GESAMP Hazard Profiles", "IMO IBC Code Chapter 18: List of products to which the Code does not apply", "IMO MARPOL 73/78 (Annex II) - List of Other Liquid Substances", "IMO Provisional Categorization of Liquid Substances - List 2: Pollutant only mixtures containing at

least 99% by weight of components already assessed by IMO", "International Agency for Research on Cancer (IARC) - Agents Reviewed by the IARC

Monographs", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Chemicals (single components)", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Dangerous Goods", "New Zealand Inventory of Chemicals (NZIoC)", "New Zealand Workplace Exposure Standards (WES)", "OECD Representative List of High Production Volume (HPV) Chemicals"

Ethylene glycol monobutyl ether (CAS: 111-76-2) is found on the following regulatory lists;

"IMO MARPOL 73/78 (Annex II) - List of Other Liquid Substances", "International Agency for Research on Cancer (IARC) - Agents Reviewed by the IARC Monographs", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Chemicals (single components)", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Dangerous Goods", "New Zealand Inventory of Chemicals (NZIoC)", "New Zealand Workplace Exposure Standards (WES)", "OECD Representative List of High Production Volume (HPV) Chemicals"

Benzyl C8-18 alkyldimethylammonium chloride (CAS: 63449-41-2, 51668-62-3) is found on the following regulatory lists;

"New Zealand Hazardous Substances and New Organisms (HSNO) Act - Chemicals (single components)", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Pesticides", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Timber Preservatives, Antisapstains and Antifouling Paints", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Veterinary Medicines", "New Zealand Inventory of Chemicals (NZIoC)"

EDTA tetrasodium salt (CAS: 64-02-8, 10378-23-1, 13235-36-4) is found on the following regulatory lists;

"IMO IBC Code Chapter 17: Summary of minimum requirements", "IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Chemicals (single components)", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data", "New Zealand Inventory of Chemicals (NZIoC)", "OECD Representative List of High Production Volume (HPV) Chemicals"

Pine oil (CAS: 8002-09-3) is found on the following regulatory lists;

"GESAMP/EHS Composite List - GESAMP Hazard Profiles", "IMO IBC Code Chapter 17: Summary of minimum requirements", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Dangerous Goods", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Pesticides", "New Zealand Inventory of Chemicals (NZIoC)", "OECD Representative List of High Production Volume (HPV) Chemicals"

Water (CAS: 7732-18-5) is found on the following regulatory lists;

"IMO IBC Code Chapter 18: List of products to which the Code does not apply", "New Zealand Inventory of Chemicals (NZIoC)", "OECD Representative List of High Production Volume (HPV) Chemicals"

No data for Cascade Freeway Floor Cleaner

HSNO Approval Number

HSR002530

Other Information

Specific advice on controls required for materials used in New Zealand can be found at <http://www.epa.govt.nz/hazardous-substances/approvals/Pages/default.aspx>.

16. OTHER INFORMATION

Date of preparation or last revision of SDS

27/04/2017

Technical Contact Point

24 Hour Emergency Contact: 0800 CHEMCALL (0800 243 622)

New Zealand Poisons Information Centre: 0800 POISON (0800 764 766)

New Zealand Emergency Services: 111

Other Information

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.

This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since INTEGRA INDUSTRIES LTD cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact their INTEGRA INDUSTRIES representative or INTEGRA INDUSTRIES LTD at the contact details on page 1.

INTEGRA INDUSTRIES LTD's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.

END OF SDS

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