

# SAFETY DATA SHEET

**FIREDOG**

Infosafe No.: MU3K6  
ISSUED Date : 05/05/2017  
ISSUED by: INTEGRA INDUSTRIES LTD

**CLASSIFIED AS HAZARDOUS**

## 1. IDENTIFICATION

### GHS Product Identifier

FIREDOG

### Product Code

2035380, 2033360, 2035120, 2033370

### 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

Oven and hot plate cleaner.

## 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.  
Classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433:2012 Transport of Dangerous Goods on Land.

- 6.1D (Oral) - Substance that is acutely toxic
- 8.1A Substance that is corrosive to metals
- 8.2B Substance that is corrosive to dermal tissue
- 8.3A Substance that is corrosive to ocular tissue
- 9.3C Substance that is harmful to terrestrial vertebrates

### Signal Word (s)

DANGER

### Hazard Statement (s)

- H290 May be corrosive to metals.
- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eye damage.
- H433 Harmful to terrestrial vertebrates.

## Pictogram (s)

Corrosion, Exclamation mark



### Precautionary statement – Prevention

P234 Keep only in original container.  
P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P264 Wash contaminated skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

### Precautionary statement – Response

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P340 IF INHALED: Remove 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.  
P310 Immediately call a POISON CENTER or doctor/physician.  
P330 Rinse mouth.  
P363 Wash contaminated clothing before reuse.  
P390 Absorb spillage to prevent material damage.

### Precautionary statement – Storage

P405 Store locked up.  
P406 Store in corrosive resistant/ container with a resistant inner liner.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Ingredients

Name	CAS	Proportion
Potassium Hydroxide	1310-58-3	30-60%
Surfactants, unregulated	-	1-10%
Other Non-hazardous Ingredients	-	1-10%
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

### Inhalation

- If fumes or combustion products are inhaled remove from contaminated area.
- Lay patient down. Keep warm and rested.
- Prosthesis such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.
- Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.

### Ingestion

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

- Urgent hospital treatment is likely to be needed.
- 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.

#### **Skin**

If skin or hair contact occurs:

- Immediately flush body and clothes with large amounts of water, using safety shower if available.
- Quickly remove all contaminated clothing, including footwear.
- Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre.
- Transport to hospital, or doctor.

#### **Eye contact**

If this product comes in contact with the eyes:

- 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.
- Transport to hospital or doctor without delay.

#### **Advice to Doctor**

For acute or short-term repeated exposures to highly alkaline materials:

- Respiratory stress is uncommon but present occasionally because of soft tissue edema.
- Unless endotracheal intubation can be accomplished under direct vision, cricothyroidotomy or tracheotomy may be necessary.
- Oxygen is given as indicated.
- The presence of shock suggests perforation and mandates an intravenous line and fluid administration.

## **5. FIRE-FIGHTING MEASURES**

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#### **Suitable Extinguishing Media**

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

#### **Specific Hazards Arising From The Chemical**

- 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/ irritating fumes.

#### **Hazchem Code**

2R

#### **Decomposition Temperature**

Not Available

#### **Other Information**

FIRE INCOMPATIBILITY

-None known.

#### **PERSONAL PROTECTION**

Glasses: Chemical goggles.

Gloves: PVC chemical resistant type.

Respirator: Particulate.

## 6. ACCIDENTAL RELEASE MEASURES

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### Spills & Disposal

Slippery when spilt.

- . 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.

### Personal Protection

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

## 7. HANDLING AND STORAGE

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### Precautions for Safe Handling

- DO NOT use aluminium, galvanised or tin-plated containers.
- Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- WARNING: To avoid violent reaction, ALWAYS add material to water and NEVER water to material.
- DO NOT allow clothing wet with material to stay in contact with skin.

### 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.
- DO NOT store near acids, or oxidising agents. Protect containers against physical damage.
- Check regularly for spills and leaks.
- No smoking, naked lights, heat or ignition sources.

### Recommended Materials

SUITABLE CONTAINER

- Lined metal can, lined metal pail/ can.
- Plastic pail.
- Polyliner drum.
- Packing as recommended by manufacturer. For low viscosity materials
- Drums and jerricans must be of the non-removable head type.
- Where a can is to be used as an inner package, the can must have a screwed enclosure.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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### Occupational exposure limit values

Source: New Zealand Workplace Exposure Standards (WES)

Material	Peak
Potassium Hydroxide	2 mg/m <sup>3</sup>

The following materials had no OELs on our records

- water: CAS:7732- 18- 5

### Appropriate Engineering Controls

Local exhaust ventilation usually required. If risk of overexposure exists, wear approved respirator.

### Personal Protective Equipment

RESPIRATOR

Particulate

EYE

- Safety glasses with unperforated side shields may be used where continuous eye protection is desirable, as in laboratories;

spectacles are not sufficient where complete eye protection is needed such as when handling bulk-quantities, where there is a danger of splashing, or if the material may be under pressure

- Chemical goggles whenever there is a danger of the material coming in contact with the eyes; goggles must be properly fitted
- Full face shield (20 cm, 8 in minimum) may be required for supplementary but never for primary protection of eyes; these afford face protection.
- Alternatively a gas mask may replace splash goggles and face shields.

#### HANDS/FEET

- Elbow length PVC gloves.
- When handling corrosive liquids, wear trousers or overalls outside of boots, to avoid spills entering boots.

#### OTHER

- Overalls.
- PVC Apron.
- PVC protective suit may be required if exposure severe.
- Eyewash unit.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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### Form

Liquid

### Appearance

Tan coloured highly alkaline mobile liquid; mixes with water.

### Colour

Tan

### Decomposition Temperature

Not Available

### Melting Point

Not Available

### Boiling Point

100 °C approx

### Solubility in Water

Miscible

### Specific Gravity

1.25

### pH

pH (1% solution): Not Available

pH (as supplied): >13.5

### Vapour Pressure

Not Available

### Vapour Density (Air=1)

Not Available

### Evaporation Rate

Not Available

### Viscosity

Not Available

### Volatile Component

Not Available

### Flash Point

Not Applicable

### Auto-Ignition Temperature

Not Applicable

**Explosion Limit - Upper**

Not Applicable

**Explosion Limit - Lower**

Not Applicable

**Molecular Weight**

Not Applicable

**10. STABILITY AND REACTIVITY**

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**Chemical Stability**

- Product is considered stable.

**Incompatible materials**

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

**Possibility of hazardous reactions**

- Hazardous polymerisation will not occur.

**Other Information****CONDITIONS CONTRIBUTING TO INSTABILITY**

- Presence of incompatible materials.

**11. TOXICOLOGICAL INFORMATION**

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**Ingestion**

- The material can produce severe chemical burns within the oral cavity and gastrointestinal tract following ingestion.
- The material can produce severe chemical burns to the eye following direct contact. Vapours or mists may be extremely irritating.

**Inhalation**

Evidence shows, or practical experience predicts, that the material produces irritation of the respiratory system in a substantial number of individuals following inhalation.

**Eye**

☒- When applied to the eye(s) of animals, the material produces severe ocular lesions which are present twenty-four hours or more after instillation.

- Direct contact with alkaline corrosives may produce pain and burns. Oedema, destruction of the epithelium, corneal opacification and iritis may occur.

☒- The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.

**Chronic Effects**

Repeated or prolonged exposure to corrosives may result in the erosion of teeth, inflammatory and ulcerative changes in the mouth and necrosis

(rarely) of the jaw. Bronchial irritation, with cough, and frequent attacks of bronchial pneumonia may ensue.

As with any chemical product, contact with unprotected bare skin; inhalation of vapour, mist or dust in work place atmosphere; or ingestion in any form, should be avoided by observing good occupational work practice.

**Other Information****TOXICITY AND IRRITATION**

-Not available. Refer to individual constituents.

**12. ECOLOGICAL INFORMATION**

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**Ecological information**

This material and its container must be disposed of as hazardous waste.

**Ecotoxicity**

Ingredient	Persistence:Water/Soil	Persistence: Air	Bioaccumulation	Mobility
Potassium Hydroxide	-	LOW	-	
Water	LOW	LOW	HIGH	

### 13. DISPOSAL CONSIDERATIONS

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#### 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

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#### U.N. Number

1719

#### UN proper shipping name

CAUSTIC ALKALI LIQUID, N.O.S.

#### Transport hazard class(es)

8

#### Sub.Risk

None

#### Packing Group

II

#### Hazchem Code

2R

#### IERG Number

37

#### UN Number (Sea Transport)

1719

#### UN Number (Road Transport)

1719

#### UN Number (Air Transport, ICAO)

1719

#### IATA/ICAO Hazard Class

8

#### IATA/ICAO Packing Group

II

#### IATA/ICAO Sub Risk

None

#### LIMITED QUANTITY - Max Net Quantity/Pkge

1L

#### IMDG UN No

1719

#### IMDG Hazard Class

8

#### IMDG Pack. Group

II

#### IMDG Subsidiary Risk

None

#### IMDG EMS

F- A , S- B

## 15. REGULATORY INFORMATION

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### Regulatory information

This substance should be managed in accordance with the requirements specified in the Industrial and Institutional Cleaning Products (Toxic [6.1], Corrosive) Group Standard 2006, HSNO Approval Number HSR002595.

### National and or International Regulatory Information

Regulations for ingredients

Potassium hydroxide (CAS: 1310-58-3) is found on the following regulatory lists;

"CODEX General Standard for Food Additives (GSFA) - Additives Permitted for Use in Food in General, Unless Otherwise Specified, in Accordance with GMP", "GESAMP/EHS Composite List - GESAMP Hazard Profiles", "IMO IBC Code Chapter 17: Summary of minimum requirements", "International Council of Chemical Associations (ICCA) - High Production Volume List", "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 - Scheduled Toxic Substances", "New Zealand Inventory of Chemicals (NZIoC)", "New Zealand Workplace Exposure Standards (WES)", "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 Firedog

### HSNO Approval Number

HSR002595

### 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

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### Date of preparation or last revision of SDS

05/05/2017

### Technical Contact Numbers

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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