# Safety Data Sheet

**QHA285 INTERZINC 22 GREENISH GREY PART A**

**Version Number** 1 **Revision Date** 08/20/13

## 1. Product and company identification

**1.1. Product identifier** INTERZINC 22 GREENISH GREY PART A

Product Code QHA285

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Intended use Refer Technical Data Sheet.
For professional use only.

Application Method Refer Technical Data Sheet.

**1.3. Details of the supplier of the safety data sheet**

**Manufacturer**

International Paint Singapore Pte Ltd
3 Neythal Road
Jurong Town
Singapore 628570

**Telephone No.** +65 6261 5033
**Fax No.** +65 6264 4612
**1.4. Emergency telephone number** +65 6261 5033
**For Poisons Advice telephone** For Advice to Doctors & Hospitals only

## 2. Hazard identification of the product

**2.1. Classification of the substance or mixture**

| | |
|---|---|
| Flam. Liq. 2;H225 | Highly Flammable liquid and vapour. |
| Acute Tox. 4;H312 | Harmful in contact with skin. |
| Skin Irrit. 2;H315 | Causes skin irritation. |
| Eye Irrit. 2;H319 | Causes serious eye irritation. |
| STOT SE 3;H336 | Vapours may cause drowsiness and dizziness |

**2.2. Label elements**

Using the Toxicity Data listed in section 11 & 12 the product is labelled as follows.

**Danger**

H225 Highly flammable liquid and vapour.
H312 Harmful in contact with skin.

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness and dizziness.
H402 Harmful to aquatic life.

**[Prevention]:**
P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.
P261 Avoid breathing dust / fume / gas / mist / vapours / spray.
P264 Wash thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves / eye protection / face protection.
**[Response]:**
P302+352 IF ON SKIN: Wash with soap and water.
P303+361+353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.
P304+312 F INHALED: Call a POISON CENTER or doctor / physician if you feel unwell.
P305+351+338 IF IN EYES: Rinse continuously 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.
P321 Specific treatment (see information on this label).
P322 Specific measures (see information on this label).
P337+313 If eye irritation persists: Get medical advice / attention.
P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P362 Take off contaminated clothing and wash before reuse.
P363 Wash contaminated clothing before reuse.
P370 In case of fire:
P378 Use alcohol resistant foam, CO2, powder, water spray for extinction. Do not use water jet.
**[Storage]:**
P403+233 Store in a well ventilated place. Keep container tightly closed.
P405 Store locked up.
**[Disposal]:**
P501 Dispose of contents / container in accordance with local / national regulations.

### 2.3. Other hazards

This product contains no PBT/vPvB chemicals.

## 3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the Workplace Safety and Health Act.

| Ingredient/Chemical Designations | Weight % | GHS Classification | Notes |
|---|---|---|---|
| **Propylene glycol mono methyl ether**<br>**CAS Number: 0000107-98-2** | **10-25** | **Flam. Liq. 3;H226**<br>**STOT SE 3;H336** | **[1][2]** |
| **Xylene**<br>**CAS Number: 0001330-20-7** | **10-25** | **Flam. Liq. 3;H226**<br>**Acute Tox. 4;H332**<br>**Acute Tox. 4;H312**<br>**Skin Irrit. 2;H315** | **[1][2]** |
| **2-butoxyethanol**<br>**CAS Number: 0000111-76-2** | **10-25** | **Acute Tox. 4;H332**<br>**Acute Tox. 4;H312**<br>**Acute Tox. 4;H302**<br>**Eye Irrit. 2;H319**<br>**Skin Irrit. 2;H315** | **[1][2]** |
| **Tetraethyl orthosilicate**<br>**CAS Number: 0000078-10-4** | **2.5-10** | **Flam. Liq. 3;H226**<br>**Acute Tox. 4;H332**<br>**Eye Irrit. 2;H319** | **[1][2]** |

| | | | |
|---|---|---|---|
| | | **STOT SE 3;H335** | |
| **Bentonite**<br>**CAS Number: 0001302-78-9** | **1-2.5** | | **[1]** |
| **Hydrochloric acid**<br>**CAS Number: 0007647-01-0** | **<1** | **Press. Gas;H280**<br>**Acute Tox. 3;H331**<br>**Skin Corr. 1A;H314** | **[1][2]** |
| **2-Methoxy-1-propanol**<br>**CAS Number: 0001589-47-5** | **<1** | **Flam. Liq. 3;H226**<br>**Repr. 1B;H360D**<br>**STOT SE 3;H335**<br>**Skin Irrit. 2;H315**<br>**Eye Dam. 1;H318** | **[1]** |

[1] Substance classified with a health or environmental hazard.
[2] Substance with a workplace exposure limit.
[3] PBT-substance or vPvB-substance.

*The full texts of the Hazard (H) phrases are shown in Section 16.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence do not require reporting in this section.

## 4. First aid measures

### 4.1. Description of first aid measures

**General**

In all cases of doubt, or when symptoms persist, seek medical attention.

Never give anything by mouth to an unconscious person.

**Inhalation**

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

**Skin Contact**

Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognised skin cleanser. Do NOT use solvents or thinners.

**Eye Contact**

Irrigate copiously with clean fresh water for at least 10 minutes, holding the eyelids apart and seek medical attention.

**Ingestion**

If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

### 4.2. Most important symptoms and effects, both acute and delayed

No data available

### 4.3. Indication of any immediate medical attention and special treatment needed

No data available

## 5. Fire-fighting measures

### 5.1. Extinguishing media

Recommended extinguishing media; alcohol resistant foam, CO2, powder, water spray.

Do not use - water jet.

Note; Fire will produce dense black smoke. Decomposition products may be hazardous to health. Avoid exposure and use breathing apparatus as appropriate.

Cool closed containers exposed to fire by spraying them with water. Do not allow run off water and contaminants from fire fighting to enter drains or water courses.

### 5.2. Special hazards arising from the substance or mixture

Fire will produce dense black smoke. Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.
Avoid exposure and use breathing apparatus as appropriate.

### 5.3. Advice for fire-fighters

Cool closed containers exposed to fire by spraying them with water. Do not allow run off water and contaminants from fire fighting to enter drains or water courses.

## 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Remove sources of ignition, do not turn lights or unprotected electrical equipment on or off. In case of a major spill or spillage in a confined space evacuate the area and check that solvent vapour levels are below the Lower Explosive Limit before re-entering. Ventilate the area and avoid breathing vapours. Take the personal protective measures listed in section 8.

### 6.2. Environmental precautions

Do not allow spills to enter drains or watercourses.

### 6.3. Methods and material for containment and cleaning up

Ventilate the area and avoid breathing vapours. Take the personal protective measures listed in section 8.

Contain and absorb spillage with non-combustible materials e.g. sand, earth, vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations. (See section 13).

Clean, preferably with a detergent. Do not use solvents.

Do not allow spills to enter drains or watercourses.

If drains, sewers, streams or lakes are contaminated, inform the local water company immediately. In the case of contamination of rivers, streams or lakes the Environmental Protection Agency should also be informed.

## 7. Handling and storage

### 7.1. Precautions for safe handling

**Handling**

This coating contains solvents. Solvent vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Areas of storage, preparation and application should be ventilated to prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the occupational exposure limits.

**In Storage**

Handle containers carefully to prevent damage and spillage.

Naked flames and smoking should not be permitted in storage areas. It is recommended that fork lift trucks and electrical equipment are protected to the appropriate standard.

This coating contains solvents. Solvent vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Areas of storage, preparation and application should be ventilated to prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the occupational exposure limits.

### 7.2. Conditions for safe storage, including any incompatibilities

Keep away from the following materials: oxidising agents, strong alkalis, strong acids.

Avoid skin and eye contact. Avoid inhalation of vapours and spray mists. Observe label precautions. Use personal protection as shown in section 8.

Smoking, eating and drinking should be prohibited in all preparation and application areas.

Never use pressure to empty a container; containers are not pressure vessels.

This is a highly flammable liquid. Refer to the requirements of CP 40 The Storage and Handling of Flammable and Combustible Liquids.

There are no exposure scenarios, see details in section 1.

### 7.3. Specific end use(s)

Store in a well ventilated, dry place away from sources of heat and direct sunlight.

Store on concrete or other impervious floor, preferably with bunding to contain any spillage. Do not stack more than 3 pallets high.

Keep container tightly closed. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep in the original container or one of the same material.

Prevent unauthorised access.

All sources of ignition (hot surfaces, sparks, open flames etc) should be excluded from areas of preparation and application. All electrical equipment (including torches) should be protected (Ex) to the appropriate standard.

The product may charge electrostatically. Always use earthing leads when pouring solvents and transferring product. Operators should wear clothing which does not generate static (at least 60% natural fibre) and antistatic footwear; floors should be of conducting type.

## 8. Exposure controls and personal protection

### 8.1. Control parameters

From the listed Exposure Standards for Atmospheric Contaminants given in the Workplace Safety and Health(General Provisions) Regulations.

| Material | PEL (Short Term) | | PEL (Long Term) | | Comments |
|---|---|---|---|---|---|
| | ppm | mg/m³ | ppm | mg/M3 | |
| **2-butoxyethanol** | **-** | **-** | **25** | **121** | |
| **Propylene glycol mono methyl ether** | **150** | **553** | **100** | **369** | |
| **Water** | | | | | |
| **Xylene** | **150** | **651** | **100** | **434** | |

(P) Peak exposure limit
(R) Suppliers Recommended Limit
(Sk) There is a risk of absorption through unbroken skin
(Sen) Sensitiser
(Cat1) Category 1 - established human carcinogen
(Cat2) Category 2 - probable human carcinogen
(Cat3) Category 3 - substances suspected of having carcinogenic potential

**DNEL/PNEC values**

No Data Available

### 8.2. Exposure controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapour below occupational exposure limits suitable respiratory protection must be worn.

**Eye Protection**

Wear safety eyewear, e.g. safety spectacles, goggles or visors to protect against the splash of liquids. Eyewear should comply with the appropriate standard.

Wear a full face shield if mixing or pouring operations pose a risk of splashes.

An eyewash station is suggested as a good work place practice.

**Skin Protection**

Gloves of an appropriate material should be worn during mixing and application.

**Other**

Overalls which cover the body, arms and legs should be worn. Skin should not be exposed. Barrier creams may help to protect areas which are difficult to cover such as the face and neck. They should however not be applied once exposure has occurred. Petroleum jelly based types such as Vaseline should not be used. All parts of the body should be washed after contact.

**Respiratory Protection**

When concentrations exceed the exposure limits shown above workers must wear appropriate approved respirators. Provision of other controls such as exhaust ventilation should be considered if practical.

**Thermal hazards**

No Data Available

## 9. Physical and chemical properties

| | |
|---|---|
| **Colour** | Grey Liquid |
| **Odour** | Smell of Solvent |
| **Odour threshold** | Not Measured |
| **pH** | N/A |
| **Melting point / freezing point (°C)** | Not Measured |
| **Initial boiling point and boiling range (°C)** | 117 |
| **Flash Point (C)** | 19 |
| **Evaporation rate (Ether = 1)** | Not Measured |
| **Flammability (solid, gas)** | Not Applicable |
| **Upper/lower flammability or explosive limits** | Lower Explosive Limit: 1.1 ( 2-butoxyethanol )<br>Upper Explosive Limit: 6.6 ( Xylene ) |
| **Vapour pressure (Pa)** | Not Measured |
| **Vapour Density** | Heavier than air. |
| **Specific Gravity** | 1.09 |
| **Solubility in Water** | Immiscible |
| **Partition coefficient n-octanol/water (Log Kow)** | Not Measured |
| **Autoignition Temperature (C)** | Not Measured |
| **Decomposition temperature** | Not Measured |
| **Viscosity (cSt)** | N/A |

**9.2. Other information**

No further information

## 10. Stability and reactivity

**10.1. Reactivity**

No data available

**10.2. Chemical stability**

Stable under recommended storage and handling conditions (see section 7). When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide, carbon dioxide, oxides of nitrogen and smoke.

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid possible exothermic reactions.

**10.3. Possibility of hazardous reactions**

May react exothermically with: oxidising agents, strong alkalis, strong acids.

**10.4. Conditions to avoid**

Stable under recommended storage and handling conditions (see section 7).

**10.5. Incompatible materials**

Keep away from the following materials: oxidising agents, strong alkalis, strong acids.

**10.6. Hazardous decomposition products**

Fire will produce dense black smoke. Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.
Avoid exposure and use breathing apparatus as appropriate.

## 11. Toxicological information

**Acute toxicity**

Exposure to solvent vapour concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage.

The preparation has been assessed using the Acute Toxicity Data listed below, and classified for toxicological hazards accordingly. See section 2 for details.

| Ingredient | Oral LD50, mg/kg | Skin LD50, mg/kg | Inhalation Vapour LD50, mg/L/4hr | Inhalation Dust/Mist LD50, mg/L/4hr |
|---|---|---|---|---|
| 2-butoxyethanol - (111-76-2) | 470.00, Rat | 220.00, Rabbit | Not Available | Not Available |
| 2-Methoxy-1-propanol - (1589-47-5) | Not Available | Not Available | Not Available | Not Available |
| Bentonite - (1302-78-9) | Not Available | Not Available | Not Available | Not Available |
| Hydrochloric acid - (7647-01-0) | 900.00, Rabbit | 5,010.00, Rabbit | Not Available | Not Available |
| Propylene glycol mono methyl ether - (107-98-2) | 5,000.00, Rat | 13,000.00, Rabbit | Not Available | Not Available |
| Tetraethyl orthosilicate - (78-10-4) | 6,270.00, Rat | 5,878.00, Rabbit | Not Available | Not Available |
| Xylene - (1330-20-7) | 4,299.00, Rat | 1,548.00, Rabbit | Not Available | 20.00, Rat |

| Item | Category | Hazard |
|---|---|---|
| Acute Toxicity (mouth) | Not Classified | Not Applicable |
| Acute Toxicity (skin) | 4 | Harmful in contact with skin. |
| Acute Toxicity (inhalation) | Not Classified | Not Applicable |
| Skin corrosion/irritation | 2 | Causes skin irritation. |
| Eye damage/irritation | 2 | Causes serious eye irritation. |

| | | |
|---|---|---|
| Sensitization (respiratory) | Not Classified | Not Applicable |
| Sensitization (skin) | Not Classified | Not Applicable |
| Germ toxicity | Not Classified | Not Applicable |
| Carcinogenicity | Not Classified | Not Applicable |
| Reproductive Toxicity | Not Classified | Not Applicable |
| Specific target organ systemic toxicity (single exposure) | 3 | Vapours may cause drowsiness and dizziness |
| Specific target organ systemic Toxicity (repeated exposure) | Not Classified | Not Applicable |
| Aspiration hazard | Not Classified | Not Applicable |

## 12. Ecological information

**12.1. Toxicity**

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is not classified as dangerous for the environment

There are no data available on the product itself.

The product should not be allowed to enter drains or water courses.

**Aquatic Ecotoxicity**

| Ingredient | 96 hr LC50 fish, mg/l | 48 hr EC50 crustacea, mg/l | ErC50 algae, mg/l |
|---|---|---|---|
| Propylene glycol mono methyl ether - (107-98-2) | 1,000.00, Oncorhynchus mykiss | 500.00, Daphnia magna | 1,000.00 (96 hr), Selenastrum capricornutum |
| Xylene - (1330-20-7) | 3.30, Oncorhynchus mykiss | 8.50, Palaemonetes pugio | 100.00 (72 hr), Chlorococcales |
| 2-butoxyethanol - (111-76-2) | 220.00, Fish (Piscis) | 1,000.00, Daphnia magna | Not Available |
| Tetraethyl orthosilicate - (78-10-4) | Not Available | Not Available | Not Available |
| Bentonite - (1302-78-9) | Not Available | Not Available | Not Available |
| Hydrochloric acid - (7647-01-0) | 282.00, Gambusia affinis | 260.00, Crangon crangon | Not Available |
| 2-Methoxy-1-propanol - (1589-47-5) | Not Available | Not Available | Not Available |

**12.2. Persistence and degradability**

There is no data available on the preparation itself.

**12.3. Bioaccumulative potential**

Not Measured

**12.4. Mobility in soil**

No data available

**12.5. Results of PBT and vPvB assessment**

This product contains no PBT/vPvB chemicals.

**12.6. Other adverse effects**

No data available

## 13. Disposal considerations

**13.1. Waste treatment methods**

Do not allow into drains or water courses. Wastes and empty containers should be disposed of in accordance with local regulations.

Using information provided in this data sheet advice should be obtained from the local Waste Regulation Authority as to whether special waste regulations apply.

## 14. Transport information

**14.1. UN number** 1263

**14.2. UN proper shipping name** Paint

**14.3. Transport hazard class(es)**

**Road and Rail Transport** 1263, Paint, 3, II, 3[Y]E

**IMDG reference :** **Class/Div** 3 **Sub Class**

**Ems** F-E,S-E

**ICAO/IATA** **Class** 3 **Sub Class**

**14.4. Packing group** II

**14.5. Environmental hazards**

**Road and Rail Transport** Environmentally Hazardous: No

**IMDG reference :** Marine Pollutant: No

**14.6. Special precautions for user**

No further information

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not Applicable

## 15. Regulatory information

The product and all its components complies with these local regulations:
NICNAS - Australia
EPA - New Zealand

None noted.

## 16. Other information

The information on this SDS is based upon the present state of our knowledge and on current laws.
The product should not be used for purposes other than shown in the product data sheet without first obtaining written advice.
It is always the responsibility of the user to take all necessary steps to meet the demands of applicable legislation.

The full text of the phrases appearing in section 3 is:

H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness and dizziness.
H372 Causes damage to organs through prolonged or repeated exposure.

**This SDS is valid for 5 years from the revised date on page 1.**
**The revision date is in American format (e.g. MM/DD/YY).**

End of document

All information concerning this product and/or suggestions for handling and use contained herein are offered in good faith and are believed to be reliable. Akzo Nobel however makes no warranty as to the accuracy of and/or sufficiency of such information.