

## Safety Data Sheet

# PRE-REDUCED INDIGO Grains

## 1. Identification of the Chemical / Mixture and the supplier

**Product Name:** PRE REDUCED INDIGO - VAT 60% Grains

**Other Names:** -

**Recommended Use:** textile dye.

### Details of the supplier of the safety data sheet

Company : Kraftkolour Pty. Ltd.  
2, 99 Heyington Ave  
THOMASTOWN Vic  
3074 AUSTRALIA

Telephone : +61 9465 4865  
Fax : -

### Emergency telephone number

Emergency Phone # : 13 11 26 POISON INFORMATION

## 2. Hazards Identification

# HAZARDOUS CHEMICAL

**Hazard Class/Category:** ACUTE TOXICITY - ORAL - Category 5  
ACUTE TOXICITY - DERMAL - Category 5  
SKIN CORROSION / IRRITATION - Category 1B

**Signal Word:** DANGER

**Pictogram:**



**Hazard Statements:**

- H303 May be harmful if swallowed.
- H313 May be harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H335 May cause respiratory irritation.

### Precautionary Statements:

Prevention - P260 Do not breathe dust/vapours.  
P264 Wash hands and exposed skin thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response - P312 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.

P363 Wash contaminated clothing before reuse.

P304 + P340 IF INHALED: Remove to fresh air; keep at rest in a position comfortable for breathing.

P310 Immediately call a POISON CENTER or doctor/physician.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage -

P405 Store locked up.

Disposal -

P501 Dispose of contents/container to authorised special waste disposal site or incineration plant.

### 3. Composition/Information on ingredients

Chemical Characterisation: vat dye, dust free preparation, contains, C.I. Reduced Vat Blue 1

Chemical Identity of Ingredients	CAS No.	Proportion
• Potassium Hydroxide	1310-58-3	> 2 - < 3 %
• Sodium Hydroxide	1310-73-2	> 1 - < 2 %
• Ingredients determined not to be hazardous	-	to 100%

Proportion (% weight per weight): VHIGH >60, HIGH 30-60, MED 10-<30, LOW 1-9, VLOW <1

### 4. First Aid Measures

DESCRIPTION OF NECESSARY MEASURES ACCORDING TO ROUTES OF EXPOSURE

For Scheduled Poisons, Poison Information Centres in each State capital city can provide additional assistance. Phone: Australia 13 11 26

**Swallowed:** Rinse mouth out immediately. In case of swallowing, drink plenty of water. Do not induce vomiting. Seek medical advice immediately.

**Eye Contact:** Contamination of the eyes must be treated by thorough irrigation with water for at least 15 minutes, with the eyelids held open. A doctor (or eye specialist) must be consulted immediately.

**Skin Contact:** Remove all contaminated clothing immediately (launder before re-use). Wash skin immediately with plenty of water. Consult a doctor.

**Inhalation:** Upon inhalation of aerosol/vapour/dust: Take the patient into the fresh air. If there is difficulty in breathing, medical advice is required.

**Advice to Doctor:** Treat symptomatically

### 5. Fire-fighting Measures

**Suitable**

**Extinguishing Media:** Water spray, Foam, Powder. For safety reasons, do not use CO2

**Specific Hazards:** If burning, may produce oxides of sulphur and nitrogen and carbon monoxide.

**Flammability:** Combustible solids.

**Fire-fighting advice:** Fire-fighters should wear protective boots, overalls, gloves and goggles. Fire-fighters are advised to wear self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance with local regulations.

### 6. Accidental Release Measures

Persons responding to accidental spills or release of this product are advised to wear personal protective equipment as given in Section 8 of this SDS.

- Spills:** Risk of dust explosion. Eliminate all sources of ignition. Do not breathe dust.  
Do not allow product to enter drains, sewers or waterways.  
Avoid generating dust.  
Take up spilled product with dust-binding material or suitable vacuum cleaner.
- Disposal:** Unusable recovered product should be placed in sealed, labelled containers for disposal in accordance with instructions in section 13.  
Wash away remaining traces with water.  
Prevent washings from entering drains, sewers & waterways.

## 7. Handling and Storage

### Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

### Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Keep container dry and tightly closed in a cool and well ventilated place. Protect from atmospheric moisture. Keep away from oxidising agents. Storage as Corrosive substances, combustible.

### Specific end use(s)

Apart from the uses mentioned in section 1.3 no other specific.

## 8. Exposure Controls / Personal Protection

Do not breathe dust. Avoid contact with eyes and skin.

### Occupational Exposure Limits for this specific chemical

- EXPOSURE STANDARDS
  - Allocated by the ASCC: No exposure standard allocated. However, NOHSC:3008 (1995) lists a value of 10mg/m<sup>3</sup> for inspirable dust containing no asbestos & <1% crystalline silica.
  - Allocated by ERMA (HSNO): No exposure standard allocated
  - Allocated by other organisations: Not known
- BIOLOGICAL LIMIT VALUES
  - Allocated by the ASCC: No value allocated
  - Allocated by ERMA (HSNO): No exposure standard allocated
  - Allocated by other organisations: Not known

### Occupational Exposure Limits for Ingredients [Safe Work Australia]

Ingredient	TWA		STEL		BLV	Notices
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>		
• Potassium Hydroxide	X	2	X	X	X	X
• Sodium Hydroxide	X	2	X	X	X	X

X = No data available

TWA – the Time Weighted Average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

STEL - (Short Term Exposure Limit) – the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal, eight-hour, working day. According to current knowledge, these concentrations should neither impair the health of, nor cause undue discomfort to nearly all workers.

BLV - Biological Limit Value

'Sk' notice – absorption through the skin may be a significant source of exposure. The exposure standard is invalidated if such contact should occur.

These exposure standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. Exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity. If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

## Exposure controls

### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## Personal protective equipment



### Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).



### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Full contact

Material: Nitrile rubber

Minimum layer thickness:

0.11 mm Break through time:

480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness:

0.11 mm Break through time:

480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.



### Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.



### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## 9. Physical and Chemical Properties

<b>Colour / Form:</b>	black/blue grains.
<b>Odour:</b>	odourless
<b>pH:</b>	approx. 13 (@ 20°C; 100 g/l in aqueous suspension)
<b>Melting Point:</b>	> 100°C Decomposition temperature.
<b>Freezing Point:</b>	Not applicable
<b>Initial Boiling Point / Boiling Range:</b>	Not applicable
<b>Flash Point:</b>	Not available
<b>Evaporation Rate:</b>	Not applicable
<b>Flammability:</b>	Not flammable
<b>Flammability Limits:</b>	Not available
<b>Vapour Pressure:</b>	Not applicable
<b>Vapour Density:</b>	Not applicable
<b>Bulk Density:</b>	400 - 500 kg/m <sup>3</sup>
<b>Solubility:</b>	highly soluble in water
<b>Partition Co-efficient:</b>	n-octanol / water; Not available
<b>Auto-Ignition Temperature:</b>	Not available
<b>Decomposition Temperature:</b>	Not available
<b>Viscosity:</b>	Not applicable

## 10. Stability and Reactivity

<b>Reactivity:</b>	Will not react or polymerise. As with all dusty organic chemicals, the possibility of a dust explosion should be considered. Corrosive to metals: aluminum, zinc.
<b>Chemical Stability:</b>	Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
<b>Conditions to Avoid:</b>	Protect from atmospheric moisture.
<b>Incompatible Materials:</b>	Keep away from acids and oxidizing agents.
<b>Hazardous Decomposition Products:</b>	Thermal decomposition: > 165°C. No thermal decomposition when stored and handled correctly.

## 11. Toxicological Information

(PRODUCT = Chemical identified in Section 1)

### ACUTE TOXICITY –

*Product* : ORAL LD50 (rat) > 2,000 mg/kg  
DERMAL LD50 (rat) > 2,000 mg/kg  
INHALATION (8 h, rat) Method : Inhalation risk test.  
No mortality after exposure to an enriched saturated atmosphere at 20 °C.

### SKIN CORROSION / IRRITATION –

*Product* : Corrosive to skin (rabbit)

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**SERIOUS EYE DAMAGE / IRRITATION –**

*Product* : As the product corrodes the skin, it can be expected to have a similar effect on the eyes also.

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**RESPIRATORY OR SKIN SENSITISATION –**

*Product* : non-sensitizing (human) Method : Patch-Test (Test results of an analogous product).

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**GERM CELL MUTAGENICITY –**

*Product* : No data available

*Ingredients*: No data available

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**CARCINOGENICITY –**

*Product* : No data available

*Ingredients*: No data available

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**REPRODUCTIVE TOXICITY –**

*Product* : No data available

*Ingredients*: No data available

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**STOST; SINGLE EXPOSURE –**

*Product* : No data available

*Ingredients*: No data available

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**STOST; REPEATED EXPOSURE –**

*Product* : No data available

*Ingredients*: No data available

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**ASPIRATION HAZARD –**

*Product* : No data available

*Ingredients*: No data available

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NOTE: The statements are derived from test results of a similarly composed product.

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**HEALTH EFFECTS - ACUTE**

**Swallowed:** Will cause burns to mouth, throat and digestive tract, resulting in pain and nausea.

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**Eye Contact:** Causes severe burns, resulting in pain, tears and eye damage.

**Skin Contact:** Causes severe skin burns and eye damage.

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**Inhalation:** No data available.

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**HEALTH EFFECTS - CHRONIC:**

No data available

## **12. Ecological Information**

- Ecotoxicity:**
- Fish toxicity : LC50 >100 mg/l (96 hours, *Oncorhynchus mykiss*)
  - Daphnia toxicity : EC50 > 100 mg/l (48 hours, *Daphnia magna*)
  - Algae toxicity : EC50 > 100 mg/l (72 hours, *Scenedesmus subspicatus*)
  - Bacteria toxicity : IC50 > 100 mg/l (activated sludge) Method : DIN 38412

**Persistence /****Degradability:** Biodegradability: >70 % (Colour decrease) Readily eliminable from water (Batch method).**Bioaccumulative:** If regulations are followed when introducing effluent into biological waste water treatment plants, no adverse effect on the degradation activity of activated sludge is to be expected.**Potential:** No data available**Mobility:** No data available**Other Data:** After neutralization, a reduction in harmful effect can be observed.

The product does not add to the AOX-value of the sewage. (DIN EN 1485)  
 The product does not contain heavy metals in concentrations of concern for waste water. The product does not release nitrogen which can contribute to eutrophication.  
 The product does not contain phosphates or organophosphorus compounds.

If utilisation or recycling of product is not possible, it should be disposed of in accordance with local regulations, at an authorised incineration plant or special waste disposal site.

Contaminated packaging should be emptied as much as possible & may be re-used after appropriate cleaning. Packaging that cannot be cleaned should be disposed of as for product.

## 14. Transport Information

**TRANSPORT INFORMATION****UN number**

ADR/RID: -

IMDG: -

IATA-DGR: -

**UN proper shipping name**

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA-DGR: Not dangerous goods

**Transport hazard class(es)**

ADR/RID: -

IMDG: -

IATA-DGR: -

**Packaging group**

ADR/RID: -

IMDG: -

IATA-DGR: -

**Environmental hazards**

ADR/RID: no

IMDG Marine pollutant: no

IATA-DGR: no

**Special precautions for user**

no data available

## 15. Regulatory Information

All the constituents of this chemical are listed on the Australian Inventory of Chemical Substances (AICS).

All the constituents of this material are listed on the New Zealand Inventory of Chemicals (NZIoC)

This product is covered by Surface Coatings & Colourants (Corrosive) Group Standard 2006 (HSNO Approval No:HSR002658).

Water Hazard Class: WGK 1 - slightly hazardous to water .

(WGK = Classification in accordance with the German Water Resources Act, Annex 2 VwVwS, 17/5/1999)

## 16. Other Information

### Full text of H-Statements referred to under sections 2 and 3.

H303	May be harmful if swallowed.
H313	May be harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.

### Further information

Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

This SDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace, including in conjunction with other products. Kraftkolour P/L cannot anticipate or control the conditions under which this information may be used. Each user should review the information in the specific context of the intended application. Kraftkolour P/L will not be responsible for damages of any nature resulting from the use of or reliance upon this information. No expressed or implied warranties are given other than those implied by Commonwealth, State or Territory Legislation.

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ISSUE DATE: 7<sup>TH</sup> May 2020 KRAFTKOLOUR P/L (03) 9465 4865