Kraftkolour Pty Ltd
Factory 2, 99 Heyington Ave
THOMASTOWN Vic 3074
Tel: 1300 720 493
Web: Kraftkolour.net.au

SAFETY DATA SHEET

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

Product identifiers

DRIMARENE K DYES: ASSORTED COLOURS

Other means of identification

Fibre Reactive dyes, Drimaren K Dyes, Levafix E Dye

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

Identified uses : Textile dye

Details of the supplier of the safety datasheet

Company : KRAFTKOLOUR Pty. Ltd.
Factory 2, Heyington Ave THOMASTOWN VIC 3074
AUSTRALIA

Telephone : +61 03 9465 4865 (1300 720493)
Fax : +61 -

Emergency telephone number

Emergency Phone : 13 11 26 Poisons Information Centre (Aust)

2. HAZARDS IDENTIFICATION

GHS Classification
Skin irritation (Category 2) Eye irritation (Category 2) Skin Sensitisation (Category 1) Specific target organ toxicity - single exposure (Category 3)

GHS Label elements, including precautionary statements
Pictogram

Signal word **Warning**

Hazard statement(s)

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.

Precautionary statement(s) Prevention

P260	Do not breathe dust/fumes/gas/mist/vapours/spray.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 P271 P272 P280	Wash skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/ eye protection/ face protection.
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.
P305 + P351 + P338 P312	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P321	Specific treatment (see supplemental first aid instructions on this label).
P333 + P313 P337 + P313 P362	If skin irritation or rash occurs: Get medical advice/ attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
Storage P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
Disposal P501	Dispose of contents/ container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ONINGREDIENTS

Substances

Synonyms : Fibre Reactive Dyes

Component	Classification	Concentration
Various Fibre Reactive Dyes	Skin Irrit. 2; Eye Irrit. 2; Skin Sens. 1; STOT SE 3; H315, H317, H319, H335	60-100%

For the full text of the H-Statements mentioned in this Section, see Section16.

4. FIRST AID MEASURES

DESCRIPTION OF NECESSARY MEASURES ACCORDING TO ROUTES OF EXPOSURE

Scheduled Poisons: Poison Information Centres in each country (or state capitol city) can provide additional assistance.
Phone: AUSTRALIA 13 11 26

Swallowed: If the product is swallowed, the patient must immediately drink water repeatedly, if possible with the addition of activated carbon. If the patient feels unwell, seek medical advice.

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) should be consulted immediately.

Skin Contact: Remove all contaminated clothing immediately (launder before re-use). Thoroughly wash contaminated skin with plenty of water and soap, or other non-irritating cleansing agents.

Inhalation: Upon inhalation of dust, take the patient into the fresh air.
If there is difficulty in breathing, medical advice is required.

Advice to Doctor: Treat symptomatically.

5. FIREFIGHTING MEASURES

Suitable
Extinguishing Media: Water spray, Foam, Powder.
Extinguishing media that must not be used for safety reasons: CO2.
Specific Hazards: If solid content is burning, may produce oxides of sulphur & nitrogen and carbon monoxide.
Hazchem Code: None allocated.
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

Personal precautions, protective equipment and emergency procedures:
Risk of dust explosion. Eliminate all sources of ignition. Do not breathe dust. Avoid generating dust.
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

Environmental precautions: Do not allow product to enter drains, sewers or waterways.

Methods and materials for containment and cleaning up: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Reference to other sections
For disposal see section 13.

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. Normal measures for preventive fire protection. 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.

Specific end use(s)
A part from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters Occupational Exposure Limits: We are not aware of any national exposure limit.

Do not breathe dust. Avoid contact with eyes and skin. Reactive dyestuff.
People with chronic respiratory problems should not work with reactive dyestuff powders.
If symptoms such as tightness in the chest or asthma occur while handling reactive dyestuff powders, a physician should be consulted as soon as possible.
If hypersensitivity is confirmed, all contact with reactive dyestuff powders must cease immediately. Inhalation of dust and aerosols must be absolutely prevented by either adequate ventilation or by a suitable mask.
NOTICE: GRANULATE DYESTUFFS ARE FREE-FLOWING, SPECIALLY DEDUSTED REACTIVE DYESTUFF PREPARATIONS. BY CAREFUL HANDLING DUSTING CAN BE SUPPRESSED ALMOST COMPLETELY.

<u>Occupational Exposure Limits for this specific chemical</u>

- EXPOSURE STANDARDS
  - Allocated by SWA: No exposure standard allocated.
    However, NOHSC:3008 (1995) lists a value of 10mg/m3 for inspirable dust containing no asbestos & <1% crystalline silica.
  - Allocated by EPA-N) (HSNO): No exposure standard allocated.
  - Allocated by other organisations: Not known.

- BIOLOGICAL LIMITVALUES
  - Allocated by SWA: No value allocated.
  - Allocated by EPA-N) (HSNO): No exposure standard allocated.
  - Allocated by other organisations: Not known.

Occupational Exposure Limits for Ingredients

Ingredient	TWA		STEL		BLV	Notices
	ppm	mg/m^3	ppm	mg/m^3		
No Data Available	X	X	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

Engineering Controls

Good general ventilation should be sufficient to control airborne exposure.
Provide local exhaust ventilation if general ventilation is insufficient.
Engineering controls, such as provision of local exhaust ventilation or containment, should always be implemented before personal protection equipment is necessary.

Personal Protection

Eye/Face Protection:

Wear safety glasses with side shields or chemical goggles.
Final choice of appropriate eye/face protection will vary according to individual circumstances.
Eye protection devices should conform to AS/N)S 1337 - Eye Protectors for Industrial Applications.

Respiratory Protection:

Half-mask with combination filter ABEK-P3 .For guidance on the selection, use and maintenance of Respiratory Protection Devices, refer to AS/NZS 1715 & AS/NZS 1716.

Gloves:

Wear chemical resistant gloves; recommend nitrile rubber gloves.
Check suitability with glove manufacturer. If necessary, test gloves before use.

Clothing:

Wear suitable protective clothing such as overalls.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance

Form: Solid, Various Colours - Powder or Granular
Odour: mild

Odour Threshold: no data available

pH: 5.5 - 7.5 (water, 100 g/l)

Solubility: 70 g/l (25 °C)

Partition Co-efficient: n-octanol / water; Not available.

Auto-Ignition Temperature: Not available.

Melting point/freezing point: no data available

Other safety information: no data available

10. STABILITY AND REACTIVITY

Reactivity
no data available

Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
no data available

Conditions to avoid
no data available

Incompatible materials
Strong oxidizing agents

Hazardous decomposition products
Other decomposition products - no data available in the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects Acute oral toxicity: LD50 > 2.000 mg/kg (rat)

Acute inhalation toxicity: not determined

Acute dermal toxicity: not determined

Irritant effect on skin: no data available

Irritant effect on eyes: no data available

Sensitization: In the guinea-pig the product has a sensitising effect (OECD 406)

Carcinogenicity: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity no data available

Specific target organ toxicity - single exposure: Inhalation - May cause respiratory irritation.

Specific target organ toxicity – repeated exposure: no data available

Aspiration hazard no data available

Additional Information RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have NOT been thoroughly investigated.

12. ECOLOGICAL INFORMATION

Toxicity

Fish Toxicity: LC50: > 80mg/l (96hr)
Daphnia toxicity: EC0 > 80mg/l (48 h,
Daphnia magna) Algae toxicity: ErC50 > 12mg/l
Bacteria toxicity: EC50 > 1,000 mg/l

The product has not been tested and the figures above are only approximate and may vary depending on the colour. Figures derived from products containing similar components.

Persistence / Degradability: Biodegradability: < 10 % (Method: evaluated from the components) COD: 965 mg/g
BOD5: < 30 mg/g

Bioaccumulative Potential: No data available.

Mobility: No data available.

Other Data: Product may add maximum 1.8 % to the AOX-value of the sewage. (DIN 38409)
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 may contain up to 0.9 % phophorus as phosphate.

Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects no data available

13 DISPOSAL CONSIDERATIONS

Waste treatment methods Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14 TRANSPORT

ROAD AND RAIL TRANSPORT
Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail.

MARINE TRANSPORT
Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

AIR TRANSPORT
Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

15 REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture
Standard for the Uniform Scheduling of Medicines and Poisons: no data available
Carcinogen classification under WHS Regulation 2011, Schedule10: Not listed
AICS: On the inventory, or in compliance with the inventory

16 OTHER INFORMATION

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

Eye Irrit.	Eye irritation
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms of breathing difficulties if
inhaled H335	May cause respiratory irritation.
Skin Irrit.	Skin Irritation
Skin Sens.	Skin Sensitisation

Further information

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.

Health and safety precautions and environmental advice noted in this data sheet may not be accurate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission, recommendation or authorization, given or implied, to practice any patented invention without a valid license.

Kraftkolour Pty Ltd. shall not be responsible for any damage or injury resulting from: abnormal use of the chemical; any failure to adhere to recommendations; any hazards inherent the chemical. Kraftkolour Pty Ltd expressly disclaims that the SDS is a representation or guarantee of the chemical specifications for the product.

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