



SAFETY DATA SHEET
according to EC directives
Trade name: DenimBlu 30
Version:2.1/EN
Revision date: 02/01/2018

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

DenimBlu 30

Manufacturer / Supplier:
BLU CONNECTION PTE LTD
4 Battery Road
Bank of China Building #25-01
Singapore 049908
Telephone: +65 9125 3501
Fax: +65 6557 0525
Emergency telephone: +65 9116 7515

2) COMPOSITION / INFORMATION ON INGREDIENTS

Vat dye
Aqueous preparation
contains
C.I. Reduced Vat Blue 1

Hazardous ingredients

Sodium hydroxide (caustic soda)

Content: > 1 – 2 %

CAS number: 1310-73-2

EC number: 011-002-00-6

Hazard symbols: C

R phrases: 35

3) HAZARDS IDENTIFICATION

Causes burns.

4) FIRST AID MEASURES

General information: Take off immediately all contaminated clothing.

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

After contact with skin: Wash skin immediately with plenty of water. Consult a doctor.

After contact with eyes: Contamination of the eyes must be treated by thorough irrigation with water, with the eyelids held open. A doctor (or eye specialist) should be consulted immediately.

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



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5) FIRE-FIGHTING MEASURES

Suitable extinguishing media: water mist, foam, dry powder, CO₂.

Special protective equipment for firefighting: Firemen have to wear self-contained breathing apparatus.

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

6) ACCIDENTAL RELEASE MEASURES

Personal precautions: Use the necessary personal protection equipment during any work

Environmental precautions: Do not empty into drains or waters.

Methods for cleaning up/taking up: Take up with absorbent material and fill into a closable container.

Additional information: For further disposal measures see Chapter 13.

7) HANDLING AND STORAGE

Advice on safe handling: Close container immediately after use, avoid excessive heat.

Do not allow to dry out.

Store and handle under nitrogen.

Advice on protection against fire and explosion: No special measures required.

Requirements for storage rooms and vessels: Store sealed in original container in a cool place.

Keep under inert gas.

Storage class: 8L Corrosive liquids

8) EXPOSURE CONTROLS / PERSONAL PROTECTION

General protective measures: Do not breathe vapour/spray.

Avoid contact with eyes and skin.

Take off immediately all contaminated clothing.

Hygiene measures: Do not eat, drink or smoke at work.

Wash hands before breaks and at end of work and use skin-protecting ointment.

Keep away from food and drink stuffs.



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Respiratory protection:	Wear respiratory equipment in case vapours and aerosols are emitted.
Hand protection:	Wear gloves.
Eye protection:	Wear goggles.
Body protection:	Wear protective clothing.

9) PHYSICAL AND CHEMICAL PROPERTIES

Form:	liquid
Colour:	yellow to brown
Odour:	Product specific
Solidifying point:	< -6 °C
Boiling range:	100 °C
Flash point:	> 100 °C
Density:	1.150 g/cm ³ (20 °C)
Solubility in water:	highly soluble, C.I. Reduced Vat Blue 1 C.I. Vat Blue 1, practically insoluble
pH value:	13.0 (20 °C) undiluted

10) STABILITY AND REACTIVITY

Thermal decomposition:	approx. 100 °C No thermal decomposition when stored and handled correctly.
Hazardous reactions: aluminium zinc	Corrosive to metals.
Hazardous decomposition products:	sodium hydroxide (caustic soda)
For avoidable conditions:	Protect from air and light.
For avoidable materials:	Keep away from acids and oxidizing agents.



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11) TOXICOLOGICAL INFORMATION

Acute oral toxicity:	LD50 > 2.000 mg/kg (rat)
Acute inhalation toxicity:	Acute inhalation risk, rat: none of the rats died during exposure for 8 hours to air at 20 °C containing the vaporized product.
Acute dermal toxicity:	LD50 > 2.000 mg/kg (rat)
Irritant effect on skin:	corrosive (rabbit)
Irritant effect on eyes:	Based on the high pH-value of the product corrosive activity on skin and mucous membranes are expected.
Remarks:	Test results of a similarly composed product

12) ECOLOGICAL INFORMATION

Biodegradability:	> 70 % Method: Batch method Analysis method: Photometry, C.I. Vat Blue 1
Biodegradability:	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.
Fish toxicity:	LC50 > 100 mg/l (96 h, Oncorhynchus mykiss)
Bacteria toxicity:	IC50 > 100 mg/l (0.5 h, activated sludge)
Remarks:	After neutralization a reduction in harmful effect can be observed. Test results of a similarly composed product
	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.



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13) DISPOSAL CONSIDERATIONS

Product: If utilisation or recycling of the product is not possible, it should be disposed of according to the local regulations and laws, e.g. by incineration in a suitable plant.

European Waste Catalogue (EWC) code: 040213 (Dyes and pigments)

Unclean packaging: Soiled, empty containers are to be treated in the same way as the contents.

14) TRANSPORT INFORMATION

ADR UNNR: 2801 Dye, liquid, corrosive, n.o.s.
Class: 8 Number: 66 b

RID UNNR: 2801 Dye, liquid, corrosive, n.o.s.
Class: 8 Number: 66 b

ADNR UNNR: 2801 Dye, liquid, corrosive, n.o.s.
Class: 8 Number: 66 b

IMDG UNNR: 2801 Dye, liquid, corrosive, n.o.s.
Class: 8 PG:III
MFAG:760 , 4.3 EmS: F-A, S-B

IATA_C UNNR: 2801 Dye, liquid, corrosive, n.o.s.
Class: 8 PG:III

IATA_P UNNR: 2801 Dye, liquid, corrosive, n.o.s.
Class: 8 PG:III

ADR SODIUMHYDROXIDE
RID SODIUMHYDROXIDE
ADNR SODIUMHYDROXIDE

IMDG SODIUMHYDROXIDE
IATA_C SODIUMHYDROXIDE
IATA_P SODIUMHYDROXIDE

Other information Corrosive, Keep away from foodstuffs, acids and alkalis



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15) REGULATORY INFORMATION

Labelling in accordance with the EEC directives:

Hazard symbols: C Corrosive

contains: sodium hydroxide (caustic soda)

R34: Causes burns.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Water Hazard Class (Ger.): WGK 1 - slightly hazardous to water (KBwS classification) WGK = Classification in accordance with the German Water Resources Act

Environmentally Hazardous Substance Label



16) OTHER INFORMATION

This information is based on our present state of knowledge. This does not imply to grant specific properties of the products described or their suitability for a particular application.