

**SAFETY DATA SHEET**Regulation (EC) No 1907/2006 (REACH) &
COMMISSION REGULATION (EU) 2015/830Version: 3.0
Product name: DenimBlu30Issue date: 09-Aug-2018
Revision date: 09-Aug-2018**1) IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1. Product identifier**PRODUCT NAME DenimBlu30
REACH REGISTRATION NUMBER 01-2119486412-38-0001**1.2. Relevant identified uses of the substance or mixture and uses advised against**RECOMMENDED USE Dyeing of cotton yarn for denim production
USES ADVISED AGAINST No information available**1.3. Details of the supplier of the safety data sheet**SUPPLIER BLU CONNECTION PTE LTD
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Singapore
POSTAL CODE 049908
PHONE +6591253501
FAX +6565570525
E-MAIL mail@bluconnection.comIMPORTER
ADDRESS
POSTAL CODE
PHONE
FAX
E-MAIL**1.4. Emergency telephone number** +6591167515**2) HAZARDS IDENTIFICATION****2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**SKIN CORROSION/IRRITATION Category 1 - (H314)
SERIOUS EYE DAMAGE/EYE IRRITATION Category 1 - (H318)

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SYMBOLS/PICTOGRAMS



SIGNAL WORD

Danger

HAZARD STATEMENTS

H290 - May be corrosive to metals.
H314 - Causes severe skin burns and eye damage.

PRECAUTIONARY STATEMENTS

P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
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/doctor.
P405 - Store locked up.

EU SPECIFIC HAZARD STATEMENTS

None.

2.3. Other hazards

No information available.

3) COMPOSITION/INFORMATION ON INGREDIENTS**3.1 Mixture**Vat dye
Aqueous Preparation contains
C.I. Reduced Vat Blue 1

Chemical name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Sodium hydroxide	215-185-5	1310-73-2	1.0 - 2.0	Met. Corr. 1 (H290) Skin Corr. 1A (H314) Eye Dam. 1 (H318)

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4) FIRST AID MEASURES

4.1. Description of first aid measures

GENERAL ADVICE

Remove contaminated clothing and shoes. Do not get in eyes, on skin, or on clothing. Do not breathe dust/fume/gas/mist/vapors/spray. In the case of skin irritation or allergic reactions see a physician. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible)

INHALATION

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

SKIN CONTACT

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.

EYE CONTACT

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

INGESTION

Rinse mouth. Get medical attention. Never give anything by mouth to an unconscious person.

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

Causes severe skin burns and eye damage.

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

Treat symptomatically.

5) FIRE-FIGHTING MEASURES

5.1. Extinguishing media

SUITABLE EXTINGUISHING MEDIA

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

UNSUITABLE EXTINGUISHING MEDIA

No information available.

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Thermal decomposition can lead to release of irritating and toxic gases and vapors, such as carbon oxides, nitrogen oxides, sulfur oxides, chlorides.

5.3. Advice for firefighters

Evacuate personnel to safe areas. Move containers from fire area if you can do it without risk. Cool drums with water spray. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Stay upwind. Ensure adequate ventilation, especially in confined areas.

6) ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures**

Evacuate personnel to safe areas. Remove all sources of ignition. Avoid contact with skin, eyes or clothing. Do not breathe dust/fume/gas/mist/vapors/spray. Do not touch or walk through spilled material. Ensure adequate ventilation, especially in confined areas. Use personal protection recommended in Section 8. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

6.2. Environmental precautions

Local authorities should be advised if significant spillages cannot be contained. Prevent entry into waterways, sewers, basements or confined areas.

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

6.4. Reference to other sections

See Section 7 for more information
See section 8 for more information
See section 13 for more information

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Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation, especially in confined areas. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Use personal protection recommended in Section 8. Take precautionary measures against static discharges. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition. Keep locked up and out of reach of children. Keep away from food, drink and animal feeding stuffs. Store in accordance with local regulations.

7.3. Specific end use(s)

Apart from the uses mentioned in SECTION 1.2 no other specific uses are stipulated.

8) EXPOSURE CONTROLS / PERSONAL PROTECTION**8.1. Control parameters**

Chemical name	Australia	Austria	Belgium	Denmark	European Union
Sodium hydroxide (CAS #: 1310-73-2)	2 mg/m ³ Peak	STEL 4 mg/m ³ TWA: 2 mg/m ³	-	Ceiling: 2 mg/m ³	-

Chemical name	Latvia	France	Finland	Germany	Italy
Sodium hydroxide (CAS #: 1310-73-2)	TWA: 0.5 mg/m ³	TWA: 2 mg/m ³	STEL: 2 mg/m ³ Ceiling: 2 mg/m ³	-	-

Chemical name	Poland	Portugal	Spain	Switzerland	Netherlands
Sodium hydroxide (CAS #: 1310-73-2)	STEL: 1 mg/m ³ TWA: 0.5 mg/m ³	Ceiling: 2 mg/m ³	STEL: 2 mg/m ³	STEL: 2 mg/m ³ TWA: 2 mg/m ³	-

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Chemical name	Norway	United Kingdom	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium hydroxide (CAS #: 1310-73-2)	Ceiling: 2 mg/m ³	STEL: 2 mg/m ³	Ceiling: 2 mg/m ³	TWA: 2 mg/m ³ (vacated) Ceiling: 2 mg/m ³	IDLH: 10 mg/m ³ Ceiling: 2 mg/m ³

DERIVED NO EFFECT LEVEL (DNEL) No information available.
PREDICTED NO EFFECT CONCENTRATION (PNEC) No information available.

8.2. Exposure controls**ENGINEERING CONTROLS**

Ensure adequate ventilation, especially in confined areas. Showers. Eyewash stations. Remove all sources of ignition.

PERSONAL PROTECTIVE EQUIPMENT

Eye/face protection

Wear safety glasses with side shields (or goggles).

Hand protection

Wear protective gloves.

Skin and body protection

Suitable protective clothing.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

ENVIRONMENTAL EXPOSURE CONTROLS

Do not allow into any sewer, on the ground or into any body of water.

9) PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

APPEARANCE	Liquid
COLOR	Yellow brown
ODOR	Special
ODOR THRESHOLD	Not determined
PH	13.0 (20 °C)
MELTING POINT/FREEZING POINT	< -6 °C
BOILING POINT / BOILING RANGE	100 °C
FLASH POINT	> 100 °C
EVAPORATION RATE	Not determined
FLAMMABILITY (SOLID, GAS)	Not flammable
FLAMMABILITY LIMIT IN AIR	Not applicable
VAPOR PRESSURE	Not determined

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VAPOR DENSITY	Not applicable
DENSITY	1.150 g/cm ³ (20 °C)
RELATIVE DENSITY	Not determined
SOLUBILITY(IES)	Not determined
PARTITION COEFFICIENT (LOGPOW)	Not determined
AUTOIGNITION TEMPERATURE	Not applicable
DECOMPOSITION TEMPERATURE	Not determined
KINEMATIC VISCOSITY	Not determined
DYNAMIC VISCOSITY	Not determined
EXPLOSIVE PROPERTIES	Not an explosive
OXIDIZING PROPERTIES	Not determined

9.2. Other information No information available.**10) STABILITY AND REACTIVITY**

10.1. Reactivity	No known effects under normal use conditions.
10.2. Chemical stability	Stable under normal conditions.
10.3. Possibility of hazardous reactions	None under normal processing.
10.4. Conditions to avoid	Incompatible materials.
10.5. Incompatible materials	Acids.
10.6. Hazardous decomposition products	Carbon oxides, nitrogen oxides, sulfur oxides, chlorides.

11) TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects**

ACUTE TOXICITY

Chemical name	Algae/Aquatic plants EC50	Fish LC50	Crustacea EC50
Sodium hydroxide (CAS #: 1310-73-2)	-	45.4 mg/L 96h Oncorhynchus mykiss static 196 mg/L 96h	40.4 mg/L

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SKIN CORROSION/IRRITATION	Causes severe skin burns.
SERIOUS EYE DAMAGE/EYE IRRITATION	Causes severe eye damage.
SENSITIZATION	No sensitization responses were observed.
GERM CELL MUTAGENICITY	No information available.
CARCINOGENICITY	No information available.
REPRODUCTIVE TOXICITY	No information available.
STOT - SINGLE EXPOSURE	No information available.
STOT - REPEATED EXPOSURE	No information available.
ASPIRATION HAZARD	No information available.

12) ECOLOGICAL INFORMATION

12.1. Toxicity

Chemical name	Algae/Aquatic plants EC50	Fish LC50	Crustacea EC50
Sodium hydroxide (CAS #: 1310-73-2)	-	45.4 mg/L 96h Oncorhynchus mykiss static 196 mg/L 96h	40.4 mg/L

12.2. Persistence and degradability	No information available.
12.3. Bioaccumulative potential	No information available.
12.4. Mobility in soil	No information available.
12.5. Results of PBT and vPvB assessment	PBT/vPvB assessment information is not available as chemical safety assessment not conducted.
12.6. Other adverse effects	No information available.

13) DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

WASTE FROM RESIDUES/UNUSED PRODUCTS	Disposal should be in accordance with applicable regional, national and local laws and regulations
CONTAMINATED PACKAGING	Disposal should be in accordance with applicable regional, national and local laws and regulations.

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14) TRANSPORT INFORMATION

14.1. UN number	2801
14.2. UN proper shipping name	DYE, LIQUID, CORROSIVE, N.O.S. (Containing Sodium hydroxide)
14.3. Transport hazard class(es)	8
14.4. Packing group	III
14.5. Environmental hazards	Non-marine pollutant
14.6. Special precautions for user	No information available
14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code	Not applicable

15) REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EUROPEAN UNION

Component	EINECS/ELINCS	SVHC candidates	RESTRICTIONS - REACH TITLE VIII
Sodium hydroxide 1310-73-2 (1.0 - 2.0)	X	-	-

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Take note of Directive 94/33/EC on the protection of young people at work

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

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INTERNATIONAL INVENTORIES

Component	TSCA	DSL/NDSL	ENCS	IECSC	KECL	PICCS	AICS
Sodium hydroxide 1310-73-2 (1.0 - 2.0)	X	DSL	X	X	X	X	X

"- " Not Listed

"X" Listed

15.2. Chemical safety assessment

No information available.

16) OTHER INFORMATION

16.1. This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

ISSUE DATE	09-Aug-2018
REVISION DATE	09-Aug-2018
REVISION NOTE	Not applicable

16.2. Key or legend to abbreviations and acronyms used in the safety data sheet

TWA	TWA (Time Weighted Average)
STEL	STEL (Short Term Exposure Limit)
CEILING	Maximum limit value
TSCA	Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL	Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS	European INventory of Existing Commercial chemical Substances/European List of Notified Chemical Substances
ENCS	Japanese Existing and New Chemical Substances
IECSC	Chinese Inventory of Existing Chemical Substances
KECL	Korea Existing Chemicals List
PICCS	The Philippine Inventory of Chemicals and Chemical Substances

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Substances**16.3. Key literature references and sources for data**

ECHA	http://echa.europa.eu/
IFA GESTIS	http://gestis-en.itrust.de/nxt/gateway.dll?f=templates\$fn=default.htm\$vid=gestiseng:sdben
HSDB	http://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm
ICSC	http://www.ilo.org/dyn/icsc/showcard.home
EchemPORTAL	http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en
NITE-CHRIP	http://www.nite.go.jp/en/chem/chrip/chrip_search/srhInput

16.4. Full text of H-Statements referred to under section 3

H290	May be corrosive to metals
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage

16.5. Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.