

Regency FCB (UK) Ltd

Unit 4 Bentwood Road, Carrs Ind Est, Haslingden, Rossendale, Lancashire, BB4 5HH
Tel: 01706 831808 Fax: 01706 212265
Email: enquiries@regencyfcb.com

SECTION 1: Identification of the substance/preparation and company

1.1 Product identifier

Indigo VaT 60 % grains

PRODUCT CODE 1151

1.2 Relevant Identified uses of the substance or mixture and uses advised against

Use pattern :
Textile dye

1.3 Details of the supplier of the safety data sheet

REGENCY FCB (UK) LTD
UNIT 4, BENTWOOD ROAD
HASLINGDEN
LANCASHIRE
BB4 5HH
Tel: +44(0)1706 831808 (office hours only)
Fax: +44(0)1706 212265
email: enquiries@regencyfcb.com

SECTION 2: Hazards identification

2.1 Classification of the Substance or Mixture

According to regulation (EC) 1272/2008 on classification, labelling and packaging of substances and mixtures

Causes severe skin burns and eye damage.

Classification of the Substance or Mixture
Skin corrosion/irritation: Corrosive, Cat. 1A

Possible Hazards according Directive 67/548/EEC or 1999/45/EC

Causes burns.

2.2 Label elements

Pictograms:

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corrosion

Signal word:

Danger

Hazard Statements:

H314 Causes severe skin burns and eye damage.

Precautionary Statements (Prevention):

P260 Do not breathe dust.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statements (Response):

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 victim to fresh air and keep at rest in a position comfortable for breathing.

P310 Immediately call a POISON CENTER or a 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.

Precautionary Statements (Storage):

P405 Store locked up.

Precautionary Statements (Disposal):

P501 Dispose of contents/container to waste treatment in accordance with national regulations.

2.3 Other hazards

If applicable in this section are given hazards which are not part of the overall classification but can contribute to the hazards which may be associated with the substance or mixture.

not applicable

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical characterization

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

Hazardous Ingredients (GHS) according Regulation (EC) 1272/2008

sodium hydroxide (caustic soda)

Content:	1 - 2 %	Skin Corr. 1A	H314
EC index no. :	011-002-00-6		
CAS number :	1310-73-2		
REACH registr. no.	01-2119457892-27		

potassium hydroxide

Content:	2 - 3 %	Acute Tox. 4 (oral)	H302
EC index no. :	019-002-00-8	Skin Corr. 1A	H314
CAS number :	1310-58-3		

Hazardous Ingredients according Directive 1999/45/EC

sodium hydroxide (caustic soda)

Content:	1 - 2 %	Hazard symbols: C
EC index no. :	011-002-00-6	R phrases: 35
CAS number :	1310-73-2	

potassium hydroxide

Content:	2 - 3 %	Hazard symbols: C
EC index no. :	019-002-00-8	R phrases: 22 - 35
CAS number :	1310-58-3	

SECTION 4: First aid measures

4.1 Description of 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: Remove all contaminated clothing immediately. 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.

4.2 Most important symptoms and effects, both acute and delayed

Please see hazard statements in section 2.2 if given and information in this section if stated.

4.3 Indication of any immediate medical attention and special treatment needed

Please see precautionary statements in section 2.2 as well as first aid information in this section if stated.

SECTION 5: Fire-fighting measures

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5.1 Extinguishing media

Suitable extinguishing media: Water spray, foam, dry powder.

Extinguishing media that must not be used for safety reasons: CO2

5.2 Special hazards arising from the substance or mixture

not determined

5.3 Advice for firefighters

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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Avoid formation and deposition of dust.

6.2 Environmental precautions

Environmental precautions: Do not empty into drains or waters.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up/taking up: Take up spilled product with dust-binding material or suitable vacuum cleaner. Fill into labelled, sealable containers.

6.4 Reference to other sections

Additional information: For further disposal measures see chapter 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling: Avoid formation and deposition of dust.
Keep container tightly closed and dry.

Advice on protection against fire and explosion: Observe the usual precautionary measures required for chemicals with dust-explosive properties. Observe national regulations.

7.2 Conditions for safe storage, including any incompatibilities

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Requirements for storage rooms and vessels: Keep container dry and tightly closed in a cool and well ventilated place.

Protect from atmospheric moisture.

Keep away from oxidising agents.

In filling operations take precautionary measures against static discharges.

Storage stability:

Storage period: 60 Months

7.3 Specific end use(s)

not determined

SECTION 8: Exposure controls/personal protection

8.1 Specific end use(s)

Ingredients with occupational exposure limits to be monitored :

Not applicable

8.2 Exposure controls

General protective measures: Do not breathe dust. Avoid contact with eyes and skin. Take off immediately all contaminated clothing.

Hygiene measures: Keep away from food and drink stuffs.

Do not eat, drink or smoke at work.

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

Respiratory protection : Dust mask with particle filter.

Hand protection : Wear suitable gloves e.g. of PVC or nitrile rubber. In the event of contamination, change protective gloves immediately.

Eye protection : tightly fitting safety glasses

Body protection : Wear protective clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form : powder granular

Colour : black

Odour : odourless

Melting/softening point: : > 100 °C
Decomposition temperature

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Boiling point	not determined
Ignition temperature :	not determined
flammability :	not determined
Lower explosion limit :	not determined
Upper explosion limit :	not determined
Vapour pressure :	not determined
Density :	not determined
Solubility in water :	highly soluble
pH value :	approx. 13 (20 °C, 100 g/l) in aqueous suspension
Octanol/water partition coefficient (log Pow) :	not determined
Viscosity (dynamic) :	not determined
Viscosity (kinematic) :	not determined
Viscosity (flow time) :	not determined

9.2 Other information

Combustion number :	not determined
Dust explosion class :	not determined
Bulk density :	400 - 500 kg/m ³
Further information (phys.-chem.)	not necessary

SECTION 10: Stability and reactivity

10.1 Reactivity

No hazardous reactions when stored and handled according to prescribed instructions.

10.2 Chemical stability

Thermal decomposition	> 165 °C No thermal decomposition when stored and handled correctly.
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10.3 Possibility of hazardous reactions

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Hazardous reactions: In the case of dusty organic products the possibility of a dust explosion should always be considered. Corrosive to metals. aluminum zinc

Hazardous decomposition products: sodium hydroxide (caustic soda) potassium hydroxide

10.4 Conditions to avoid

For avoidable conditions: Protect from atmospheric moisture.

10.5 Incompatible materials

For avoidable materials: Keep away from acids and oxidizing agents.

10.6 Hazardous decomposition products

sodium hydroxide (caustic soda) potassium hydroxide

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity :	LD50 > 2.000 mg/kg (rat)
Acute inhalation toxicity :	(8 h, rat) Method : Inhalation risk test No mortality after exposure to an enriched saturated atmosphere at 20 °C.
Acute dermal toxicity :	LD50 > 2.000 mg/kg (rat)
Irritant effect on skin :	Corrosive (rabbit)
Irritant effect on eyes :	As the product corrodes the skin, it can be expected to have a similar effect on the eyes also.
Sensitization :	non-sensitizing (human) Method : Patch-Test Test results of an analogous product.
Repeated dose toxicity	not determined
Mutagenicity:	not determined
Teratogenicity :	not necessary
Carcinogenicity :	not necessary
Remarks :	Test results of a similarly composed product

SECTION 12: Ecological information

12.1 Toxicity

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Fish toxicity :	LC50 > 100 mg/l (96 h, Oncorhynchus mykiss)
Daphnia toxicity :	EC50 > 100 mg/l (48 h, Daphnia magna)
Algae toxicity :	EC50 > 100 mg/l (72 h, Scenedesmus subspicatus)
Bacteria toxicity :	IC50 > 100 mg/l (activated sludge) Method : DIN 38412 T.27

12.2 Persistence and degradability

Physico-chemical eliminability :	not determined
Biodegradability :	> 70 % (Colour decrease) Readily eliminable from water Method : Batch method
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.
Behaviour in environmental compartments:	not determined
Dissolved Organic carbon (DOC) :	not determined
Chemical oxygen demand (COD) :	not determined
Biochemical oxygen demand (BOD5):	not determined

Remarks: After neutralization a reduction in harmful effect can be observed.

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.

Test results of an analogous product.

12.3 Bioaccumulative potential

not determined

12.4 Mobility in soil

not determined

12.5 Results of PBT and vPvB assessment

not determined

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12.6 Other adverse effects

not determined

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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: 040216 Dyestuffs and pigments containing dangerous substances

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

SECTION 14: Transport information

ADR	UNNR: 3147 Dye, solid, corrosive, n.o.s. Class: 8 PG:III
ADNR	UNNR: 3147 Dye, solid, corrosive, n.o.s. Class: 8 PG:III
RID	UNNR: 3147 Dye, solid, corrosive, n.o.s. Class: 8 PG:III
IMDG	UNNR: 3147 Dye, solid, corrosive, n.o.s. Class: 8 PG:III EmS: F-A , S-B
IATA_C	UNNR: 3147 Dye, solid, corrosive, n.o.s. Class: 8 PG:III
IATA_P	UNNR: 3147 Dye, solid, corrosive, n.o.s. Class: 8 PG:III

ADR	Sodium Hydroxide
ADR	Potassium hydroxide
ADNR	Sodium Hydroxide
ADNR	Potassium hydroxide
RID	Sodium Hydroxide
RID	Potassium hydroxide
IMDG	Sodium Hydroxide
IMDG	Potassium hydroxide
IATA_C	Sodium Hydroxide
IATA_C	Potassium hydroxide
IATA_P	Sodium Hydroxide
IATA_P	Potassium hydroxide

14.1 UN number

See above entry at the respective regulation.

14.2 UN proper shipping name

See above entry at the respective regulation.

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14.3 Transport hazard class(es)

See above entry at the respective regulation.

14.4 Packing group

See above entry at the respective regulation.

14.5 Environmental hazards

See above entry at the respective regulation.

14.6 Special precautions for user

Slightly corrosive
Keep away from foodstuffs, acids and alkalis

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

No transport in bulk according to Annex II of MARPOL 73/78 and the IBC code foreseen for this substance or mixture.:

SECTION 15: Regulatory information

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

Labelling according Directive 67/548/EEC or 1999/45/EC:

Hazard symbols: C Corrosive

contains: sodium hydroxide (caustic soda)
potassium hydroxide

R34 : Causes burns.

S22 : Do not breathe dust.

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).

15.2 Chemical safety assessment

not determined

SECTION 16: Other information

Text of all shortcuts referred to in sections 2 and 3:

C Corrosive

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22	Harmful if swallowed.
34	Causes burns.
35	Causes severe burns.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
Acute Tox. 4 (oral)	Acute Toxicity: Cat. 4 (oral)
Skin Corr. 1A	Skin corrosion/irritation: Corrosive, Cat. 1A

This information is based on our present state of knowledge. It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for a particular application.