



**Material Safety Data Sheet according to Regulation (EC) No. 1907/2006
(revised by Regulation (EC) No. 453/2010)**

JAVANA Fixative for Batik Textile Dye

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

1.1 Identification of the substance/preparation

Trade name JAVANA Fixative for Batik Textile Dye
Article No. 98553
Package size 20 ml
Substance name -
INDEX No. -
EG No. -
CAS No. -
REACH Registration No.-

1.2 Use of the substance/preparation

Fixing agent. For artists and hobby user.

1.3 Manufacturer/Supplier

C. KREUL GmbH & Co. KG
Carl-Kreul-Strasse 2
D-91352 Hallerndorf
Phone no. +49 (0) 9545 925-0
Fax no. +49 (0) 9545 925-511
Mail info@c-kreul.de

Information provided by

Mrs. Treiber, b.treiber@c-kreul.de

1.4 Emergency information

Phone no. +49 (0) 9545 925-0
Fax no. +49 (0) 9545 925-511

(Monday – Thursday 8.00 – 17.00; Friday 8.00 – 15.00)

2. HAZARD IDENTIFICATION

2.1 Classification of the substance/preparation

Classification according to Regulation (EC) 1272/2008

Acute Tox. 4 H302; Eye Irrit. 2 H319; Aquatic Chronic 3 H412

2.2 Labelling according to Regulation (EC) 1272/2008

Hazard pictogram and signal word of the product



Warning

Hazard-determining components of labelling

cationic polyethylene polyamine resin



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Hazard statements

- H302 Harmful if swallowed.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.

European hazard statements

-

Precautionary statements

- P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P338
P501 Dispose of contents/container to hazardous or special waste collection point.

2.3 Other Hazards

None.

Results of PBT and vPvB assessment: Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization

Aqueous solution of a polyamine derivative.

3.1 Substance related information

Main component

The product is a preparation.

-

INDEX No. -

EG No. -

CAS No. -

REACH Registration No.: -

Classification according to Regulation (EC) 1272/2008: -

Hazard impurities

-

INDEX No. -

EG No. -

CAS No. -

REACH Registration No.: -

Classification according to Regulation (EC) 1272/2008: -



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3.2 Preparation/mixture related information
15 % Cationic polyethylene polyamine resin

INDEX No. -

EG No. -

CAS No. -

REACH Registration No.: -

Classification according to Regulation (EC) 1272/2008:  Acute Tox. 4 H302;  Eye Irrit. 2 H319; Aquatic Chronic 3 H412

Full text of H- and EUH-phrases: see section 16.

4. FIRST AID MEASURES

4.1 General information

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

After inhalation

Remove to fresh air, keep patient warm and at rest. In case of unwellness, seek medical advice (show directions for use or safety data sheet if possible).

After skin contact

In case of skin reactions, consult a physician. After contact with skin, wash with plenty of water and soap. Do NOT use solvents or thinners.

After eye contact

Remove contact lens. Irrigate copiously with clean, fresh water for at least 10 - 15 minutes, holding the eyelids apart and seek medical advice.

After ingestion

If swallowed immediately drink: water. Do NOT induce vomiting. In case of unwellness, seek medical advice (show directions for use or safety data sheet if possible). During spontaneous vomiting hold the head of the casualty low with the body in a prone position in order to avoid aspiration.

4.2 The most important acute and delayed appearing symptoms and effects

No known symptoms to date. See part 11.

4.3 References to medical emergency relief or special treatment

Further instructions see section 4.1

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Foam, water spray and carbon dioxide.

Extinguishing media which must not be used for safety reasons: Full water jet.



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5.2 Special risk posed by the substance or by the actual preparation, its combustion products or gases discharged

When product exposed to high temperatures it may produce hazardous decomposition products such as carbon monoxide, carbon dioxide, smoke and other hazards components.

5.3 Special protective equipment

In case of fire: Wear self-contained breathing apparatus. Use water spray jet to protect personnel and to cool endangered containers. Do not allow the quenching water into the sewage system. Dispose fire debris and contaminated fire fighting water in accordance with official regulations.

5.4 Additional information

Product itself does not burn. Compare section 3, 7, 8 and 10.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions

Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.

6.2 Environmental precautions

Take up with a liquid absorbing material and proceed according to the waste disposal regulations. Do not empty into drains or watercourses. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations. Further instructions see section 6.3.

6.3 Methods for cleaning up/collecting

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean preferably with a detergent; avoid use of solvents. Further instructions see part 10.

6.4 Additional information

Further instructions see section 7, 8 and 10.

7. HANDLING AND STORAGE

7.1 Information for safe handling

Avoid eye and skin contact. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. See protective measures under point 8.

Precautions against fire and explosion

No special measures necessary. Product itself does not burn. Further instructions see 7.1.

7.2 Conditions for safe storage, including incompatibilities

Information about storage conditions

Store between 5 and 30 °C in a dry, well-ventilated place away from sources of heat and direct sunlight. Protect against: frost.



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Hints on joint storage

Only substances of the same storage class should be stored together. Keep away from oxidizing agents, from strongly alkaline and strongly acid materials. The substance should not be stored with substances with which hazardous chemical reactions are possible.

Requirement for storage rooms and vessels

Store between 5 and 30 °C in a dry, well-ventilated place away from sources of heat and direct sunlight. Keep container tightly closed. Observe label precautions.

Additional information

Storage class (VCI):

7.3 Specific uses

Fixing agent.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Components with critical values that require monitoring at the workplace (exposure limits)

None

Specification: -
Value: -
Peak limitation: -
Toxic to reproduction: -
Remark: -

DNEL/DMEL-Values

No data available.

PNEC-Values

No data available.

8.2 Occupational exposure controls

Technical measures and the application of suitable working methods have precedence before the application of personal protective equipment. Suitable judgement methods of the examination of the effectiveness of the grievied preventive measures enclose measuring-technical and non-technical inquiry methods like they in the technical rules for danger materials (TRGS) 402.

Personal protective equipment

Do not eat or drink during work. Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Avoid contact with eyes. Remove soiled or soaked clothing immediately.

Respiratory protection

Provide good ventilation when handling large quantities.

Skin protection

Avoid contact with skin. Use protective gloves according to EN 374. Solvent-resistant protective gloves must be worn. The glove material must be sufficiently impermeable and resistant to the



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substance. Check the tightness before wear. Gloves should be well cleaned before being removed, then stored in a well ventilated location. Textile or leather gloves are completely unsuitable. Pay attention to skin care.

The following materials are suitable for protective gloves

Inherent protection

Nitrile rubber/Nitrile latex – NBR (0,4 mm): Permeation time \geq 8 hours

Splash guard

Nitrile rubber/Nitrile latex – NBR (0,12 mm): Permeation time 2 – 4 hours

The times listed are suggested by measurements taken at 22 °C and constant contact. Temperatures raised by warmed substances, body heat, etc. and a weakening of the effective layer thickness caused by expansion can lead to a significantly shorter breakthrough time. In case of doubt contact the gloves' manufacturer. A 1.5-times increase / decrease in the layer thickness doubles / halves the breakthrough time. This data only applies to the pure substance. Transferred to mixtures of substances, these figures should only be taken as an aid to orientation.

Eye protection

Avoid contact with eyes. Use safety glasses according to EN 166:2001.

Body protection

No special measures necessary.

Limitation and supervision of the environmental exposition

See section 6 and 7.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 General information

Form: fluid
Colour: clear
Odour: characteristic

9.2 Relevant safety data

Flashpoint: not determined
Viscosity: not determined ISO 2431
Density: (20 °C) not determined DIN 53217
Explosive limits:
Lower / Upper: not applicable
Ignition temperature: not applicable
Vapour pressure: not determined
pH-value: not determined
Solubility in water: miscible

9.3 Additional information

No other physical-chemical data available.



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10. STABILITY AND REACTIVITY

10.1 Reactivity

None, if handled according to order. Further instructions see section 7.

10.2 Chemical stability

If handled properly then product has chemical stability.

10.3 Possible dangerous reactions

None, if handled according to order. Further instructions see section 10.1 and 10.2.

10.4 Conditions to avoid

Keep cool. Protect from sunlight.

10.5 Incompatible materials

See section 10.1.

10.6 Hazardous decomposition products

When product exposed to high temperatures, it may produce hazardous decomposition products such as carbon monoxide, carbon dioxide and sulfur oxides, smoke and other hazardous components.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

There are no data available on the preparation itself.

**Primary irritant effect
after inhalation
on the skin**

There are no data available on the preparation itself.
Frequent contact can lead to skin irritation, especially if product is allowed to dry out.

**on the eyes
after ingestion**

Causes serious eye irritation.
Harmful if swallowed.

Sensitization

No sensitizing effects known.

Chronic

There are no data available on the preparation itself.

11.2 Additional toxicological information

The product is classified according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Harmful to aquatic life with long lasting effects.



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12.2 Persistence/degradability

There are no data available.

12.3 Bioaccumulative potential

There are no data available.

12.4 Mobility

There are no data available.

12.5 Results of PBT and vPvP assessment

There are no data available.

12.6 Other adverse effects

There are no data available.

12.7 Further ecological information

Do not discharge into the drains/surface waters/groundwater.

Water hazard class: WGK 2 hazardous to water (according VwVwS)

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Send to a hazardous waste incinerator facility under observation of official regulations. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Recommendation

Disposal must be made according to official regulations.

13.2 European waste code number in accordance with AAV

EWC No.: 08 01 11 waste paint and varnish containing organic solvents or other dangerous substances

EWC No.: 20 01 27 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS paint, inks, adhesives and resins containing dangerous substances

13.3 Packaging

Contaminated packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing, may be taken for reuse. Packaging that cannot be cleaned should be disposed in the same manner as the medium.

EWC No. 15 01 10 packaging containing residues of or contaminated by dangerous substances

Non-contaminated packages

EWC No.: 15 01 02 plastic packaging

EWC No.: 15 01 07 glass packaging



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14. TRANSPORT INFORMATION

14.1 Land transport ADR/RID and GVS/GGVE

Not classified as hazardous.

Class: -
Kemler-Code: -
UN No.: -
Packaging group: -
Label: -
Special marking: -
Proper shipping name: -
Classification-Code: -
Limit: -
Tunnel restriction code: -

14.2 Maritime transport IMDG/GGVSea

Not classified as hazardous.

Class: -
UN No.: -
Label: -
Packaging group: -
EmS-No.: -
Marine pollutant: -
Proper shipping name: -

14.3 Air transport ICAO-TI and IATA-DGR

Not classified as hazardous.

ICAO/IATA Class: -
UN no.: -
Label: -
Packaging group: -
Proper shipping name: -

14.4 Remarks

Product contains environmentally hazardous substances: -.

15. REGULATORY INFORMATION

15.1 European Regulation

Chemical Safety Assessment: For this substance a chemical safety assessment is not required.

15.2 National Regulations

Statutory order on hazardous incidents (StörfallV): -
Regulation on inflammable liquids: VbF-Class: -
Emission control act ("TA-Luft"): -
Water hazard class: WGK 1 slightly hazardous to water (according VwVwS)

15.3 Additional information

The product is classified according to the EEC directives and the Ordinance on Hazardous Materials (GefStoffV).



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If bottle \leq 125 ml then the following H and P-phrases are not necessary: H319, P280, P305+P351+P338.

Please check local regulations.

Volatile organic compounds (Swiss): 0 %.

The advertised use (section 1) is not subject of the Directive 2004/42/EC.

16. OTHER INFORMATION

16.1 Changes compared with the last version

The last version was all changed and revised completely. Alterations to the previous edition are marked in the right-hand margin.

16.2 Literature reference and data source

Regulation (EC) 1999/45, last changed by Regulation (EC) 1907/2006

Regulation (EC) 67/548, last changed by Regulation (EC) 2009/2

REACH Regulation (EC) 1907/2006, last changed by Regulation (EC) 453/2010

Regulation (EC) 1272/2008, last changed by Regulation (EC) 790/2009

Internet

<http://www.baua.de>

<http://www.arbeitssicherheit.de>

<http://www.gischem.de>

16.3 Full text of H- and R-phrases appearing in section 2 and 3: According to Regulation (EC) 1272/2008

Acute Tox.4 H302 Harmful if swallowed.

Eye Irrit. 2 H319 Causes serious eye irritation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

EUH – statements

-

Methods according to article 9 of the order (EC) No. 1272/2008 for the assessment of the information for the purpose of the classification were used:

Classification according to Regulation 1272/2008.

16.4 Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

BImSchV: Order for the realisation of the Federal Immission Protection Law

CAS: Chemical Abstracts Service

DIN: Norm of the German institute of standardization

EC: Effective concentration

EC50: Effective concentration, 50 percent

EG: European Community

EINECS: European Inventory of Existing Commercial Chemical Substances

EN: European Standard



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GefStoffV:	Ordinance on Hazardous Substances, Germany
GHS:	G lobally H armonized S ystem of Classification and Labelling of Chemicals
IATA:	I nternational A ir T ransport A ssociation
IMDG:	I nternational M aritime C ode for D angerous G oods
LC50:	Lethal concentration, 50 percent
LD50:	Lethal dose, 50 percent
Log K_{ow}:	n-octanol-water partition coefficient
OECD:	O rganisation for E conomic C o-operation and D evelopment
PBT:	P ersistent, b ioaccumulable, t oxically
RID:	Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
TRGS:	T echnical rules for danger materials
UN:	U nited N ations (Vereinte Nationen)
VOC:	V olatile O rganic C ompounds
vPvB:	very much persistent and very bioaccumulable
VwVwS:	Administrative regulation of hazardous to waters materials
WGK:	W ater hazardous class

16.5 Department issuing safety data sheet

Laboratory, Mrs. Dipl.-Ing. Treiber, b.treiber@c-kreul.de.

16.6 Additional information

The data is based on our present knowledge. The data correspond to the national and EEC legislation. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

It is not permitted to use the product for any other application mentioned in chapter 1 except with a written permission. The user is responsible for the compliance with all valid legal regulation.

This safety data sheet is only valid for JAVANA Fixative for Batik Textile Dye. It's not valid for other products placed in the according sales displays or sets.