Material Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

Product Name：# 9220 JOBO E-6 Color Positive kit Color developer part A

Name of Manufacturer： JOBO International GmbH

Adress： Kölner Straße 58a·51645 Gummersbach Germany

Name of Section：Johannes Bockemuehl

Phone Number： +49 (0) 2261 - 545-35

MSDS No.： J9220-03

2. Hazards identification

Classification of the chemical in accordance with paragraph (d) of 29 CFR 1910.1200:

Hazard class	Hazard category
Skin irritation	Category 1
Serious eye damage/eye irritation	Category 1
specific target organ systemic toxicity - single exposure	Category2

CONTAINS: Tripotassium phosphate (7778-53-2), alkali hydroxide (proprietary), Sodium sulphite (7757-83-7)

DANGER!

CAUSES SKIN AND EYE BURNS

HARMFUL IF SWALLOWED

DUST, MIST OR VAPOUR IRRITATING TO THE EYES AND RESPIRATORY TRACT

3. Composition/information on ingredients

Components - (CAS-No.)	Weight percent
Water (7732-18-5)	60 - 80
Tripotassium phosphate (7778-53-2)	5 - 15
Sodium organic phosphonate (20592-85-2)	< 5
Sodium sulfite (7757-83-7)	< 5

Triethylene glycol (112-27-6)	5-15
Potassium Hydroxde(1310-58-3)	< 3

4. First aid measures

Inhalation: If inhaled, remove to fresh air. Get medical attention.

Eyes: Immediately flush the contaminated eye(s) with water for at least 60 minutes, while holding the eyelid(s) open. If a contact lens is present, DO NOT delay irrigation or attempt to remove the lens. Neutral saline solution may be used as soon as it is available. DO NOT INTERRUPT FLUSHING. Contact a physician or poison control center immediately. Continue flushing the eye(s) until the physician advises to stop. If necessary, continue flushing during transport to an emergency care facility.

Skin: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician or poison control centre immediately. Wash contaminated clothing before re-use. Destroy or thoroughly clean contaminated shoes.

Ingestion: If swallowed, DO NOT induce vomiting. Call a physician or poison control centre immediately. Never give anything by mouth to an unconscious person.

Notes to physician:

Treatment: Strong alkalis bind tissue protein. Following initial flushing of the eye with water, continued irrigation of the eye with saline is recommended. Treatment should be continued until pH of tears reaches neutral.

5. Fire-fighting measures

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

Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing. Fire or excessive heat may produce hazardous decomposition products.

Hazardous Combustion Products: None (noncombustible), (see also Hazardous Decomposition Products sections.)

Unusual Fire and Explosion Hazards: None.

6. Accidental release measures

Absorb spill with inert material, then place in a chemical waste container. Clean surface thoroughly to remove residual contamination.

7. Handling and storage

Personal precautions: Do not breathe mist or vapour at concentrations greater than the exposure

limits. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Use only with adequate ventilation. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

Prevention of Fire and Explosion: No special technical protective measures required.

Storage: Keep container tightly closed. Keep away from incompatible substances (see Incompatibility section.)

8. Exposure controls/personal protection

Occupational exposure controls

Chemical Name	Regulatory List	Value Type	Value
alkali hydroxide	ACGIH	Ceiling Limit Value	2 mg/m3

Ventilation: Use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. Controls should be sufficient so that applicable occupational exposure limits are not exceeded.

Respiratory protection: If engineering controls do not maintain airborne concentrations below recommended exposure limits, an approved respirator must be worn. If respirators are used, a program should be instituted to assure compliance with applicable federal, state, commonwealth, provincial, or local laws and regulations.

Eye protection: Wear safety glasses with side shields (or goggles) and a face shield.

Hand protection: Wear impervious gloves and protective clothing appropriate for the risk of exposure.

9. Physical and chemical properties

Physical form: liquid

Colour: pale yellow

Odour: no specific odor

Specific gravity: 1.21

Vapour pressure: no data available

Vapour density: no data available

Boiling point/boiling range: > 100 °C (> 212.0 °F)

Water solubility: completely soluble

pH: >13

Flash point: does not flash

10. Stability and reactivity

Stability: Stable under normal conditions.
Incompatibility: Acids, Metals. Contact with strong acids liberates sulphur dioxide.
Hazardous decomposition products: Sulphur oxides, Oxides of phosphorus, potassium oxide
Hazardous Polymerization: Hazardous polymerisation does not occur.

11. Toxicological information

Effects of Exposure
Inhalation: Airborne dust/mist/vapor irritating. In contact with strong acids or if heated, sulphites may liberate sulphur dioxide gas. Sulphur dioxide gas is irritating to the respiratory tract. Some asthmatics or hypersensitive individuals may experience difficult breathing.
Eyes: Causes eye burns. Airborne dust/mist/vapor irritating.
Skin: Causes skin burns.
Ingestion: Harmful if swallowed. May cause burns of the gastrointestinal tract if swallowed. Some asthmatics or sulfite-sensitive individuals may experience wheezing, chest tightness, stomach upset, hives, faintness, weakness and diarrhea.

Numerical measures of toxicity - Product Information
The following values are calculated estimate.
Oral LD50 (rat): ＞300mg/kg （ATEmix）
ATE: Acute toxicity estimate

Data for alkali hydroxide:
Acute Toxicity Data:
Oral LD50 (rat): 284mg/kg
Skin irritation: severe

12. Ecological information

The following properties are ESTIMATED from the components of the preparations.
Potential Toxicity:
Toxicity to fish (LC50): No data available
Toxicity to daphnia (EC50): No data available
Toxicity to algae (IC50): No data available
Persistence and degradability: Not applicable

13. Disposal considerations

Discharge, treatment, or disposal may be subject to federal, state, commonwealth, provincial, or

local laws. Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. Transport information

IATA:	UN number:	UN3266
	Proper shipping name:	Alkaline SOLUTION
	Class:	8
	Packaging group:	III
IMDG:	UN number:	UN3266
	Proper shipping name:	Alkaline SOLUTION
	Class:	8
	Packaging group:	III
ADN:	UN number:	UN3266
	Proper shipping name:	Alkaline SOLUTION
	Class:	8
	Packaging group:	III

15. Regulatory information

Notification status

Regulatory List

Notification status

TSCA

Not all listed

DSL

Not all listed

NDSL None listed

EINECS Not all listed

ELINCS None listed

NLP None listed

AICS Not all listed

IECS Not all listed

ENCS Not all listed

ECI Not all listed

NZIoC Not all listed

PICCS Not all listed

"Not all listed" indicates one or more component is either not on the public Inventory or is subject to exemption requirements.

16. Other information

9220 JOBO E-6 Color Positive kit Color developer part A

Volume per unit：500ml

The data above reflects current legislative requirements whereas the product in your possession may carry a different version of the label depending on the date of manufacture.