Safety Data Sheet

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

Product Name： # 9240 JOBO C-41 Color Negative Kit Color developer part B

Name of Manufacturer： JOBO International GmbH

Address : Kölner Straße 58a, 51645 Gummersbach, Germany

Name of Section： Johannes Bockemuehl

Phone Number： +49 (0) 2261 - 545-0

MSDS No. : National emergency number (112 for most of EU. 911 for USA)

2. Hazards identification

Hazard class	Hazard category	Route of exposure
Not a dangerous substance according to GHS.	Not hazardous according to GHS/Hazard Communication regulations.	--

GHS-Labelling

Contains:

Bis(hydroxylammonium) sulfate (10039-54-0)

Symbol(s):

Hazard statements: May be corrosive to metals. Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Precautionary statements:

Prevention: Keep only in original container. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace.

Response: Absorb spillage to prevent material damage. IF exposed: Call a POISON CENTER or doctor/ physician. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/ attention. 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. IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth. Take off contaminated clothing and wash before reuse.

Storage: Store in corrosive resistant aluminium container with a resistant inner liner.

Disposal: Dispose of contents/container in accordance with local/regional/national/international regulation.

Other hazards which do not result in classification:

Heat sensitive - can decompose if heated.
CONTENTS MAY DEVELOP PRESSURE UPON PROLONGED EXPOSURE TO HEAT
Dried product residue can act as a reducing agent.

3. Composition/information on ingredients

Components - (CAS-No.)	Weight percent
Water (7732-18-5)	70-90
Bis(hydroxylammonium) sulfate (10039-54-0)	7

4. First aid measures

Inhalation: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Eyes: 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.
Skin: IF ON SKIN: Wash with plenty of soap and water. Get medical attention if symptoms occur. 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.

5. Firefighting measures

Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers.
Special hazards arising from the substance or mixture
Hazardous Combustion Products: None (noncombustible), (see also Hazardous Decomposition Products sections.)
Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing. Fire or excessive heat may produce hazardous decomposition products.
Unusual Fire and Explosion Hazards: Mixture contains a strong reducing agent. Reacts violently with oxidizing materials. Dried product residue can act as a reducing agent. Elevated temperature can cause decomposition. May cause spontaneous heating and ignition when absorbed on combustible, porous material (e.g. rags, paper, sawdust, cotton, clothing).

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Refer to protective measures listed in sections 7 and 8.
Methods and materials for containment and cleaning up: Absorb spill with vermiculite or other inert

material, then place in a container for chemical waste. Collect in a noncombustible container for prompt disposal. Clean surface thoroughly to remove residual contamination.
Environmental precautions: Flush with plenty of water. Do not store in metal containers.
For Large Spills: Flush with plenty of water. Do not store in metal containers.

7. Handling and storage

Precautions for safe handling
Personal precautions: Avoid prolonged or repeated breathing of mist or vapour. Avoid contact with eyes, skin, and clothing. Use only with adequate ventilation. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.
Prevention of Fire and Explosion: Keep away from heat and flame. Keep from any contact with metals. Remove and wash contaminated clothing promptly. Exercise caution if heating, especially in a closed container. Keep from contact with oxidizing materials, highly oxygenated or halogenated solvents, organic compounds containing reducible functional groups.
Conditions for safe storage, including any incompatibilities: Store in original container. Do not store in metal containers. Contents may develop pressure upon prolonged exposure to heat. Store in cool place. Keep container tightly closed to prevent the loss of water. Keep away from incompatible substances (see Incompatibility section.)

8. Exposure controls/personal protection

Occupational exposure controls: Not established
Appropriate engineering controls: Good general ventilation should be used. Ventilation should be sufficient so that applicable occupational exposure limits are not exceeded. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory protection may be needed in special circumstances.
Individual protection measures, such as personal protective equipment
Eye protection: Wear safety glasses with side shields (or goggles).
Hand protection: Wear impervious gloves and protective clothing appropriate for the risk of exposure.
Respiratory protection: None should be needed.

9. Physical and chemical properties

Physical form: liquid
Color: clear
Odor: odorless
Specific gravity: 1.11

Vapour pressure (at 20.0 °C (68.0 °F)): 24 mbar (18.0 mm Hg)
Vapour density: No data available
Boiling point/boiling range: ≒100℃ (212° F)
Water solubility: complete
pH: 3.5
Flash point: does not flash
Evaporation rate: No data available
Flammability (Solid; gas): No data available
Upper explosion limit: No data available
Lower explosion limit: No data available
Partition coefficient: n-octanol/water: No data available
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Viscosity: No data available
Explosive properties: No data available
Oxidizing properties: No data available

10. Stability and reactivity

Reactivity: No data available
Chemical stability: Stable in glass and plastic containers, however, becomes unstable in contact with metals. Materials containing similar structural groups can decompose if heated above 110°C (230°F). Safe handling temperatures are dependent on specific conditions of use and are typically substantially below the onset temperature. Consult your technical safety experts.
Possibility of hazardous reactions: Hazardous polymerisation does not occur.
Conditions to avoid: No data available
Incompatible materials: Acids, Halogenated compounds, Metals, Strong oxidizing agents.
Hazardous decomposition products: Ammonia, Nitrogen oxides (NOx), Sulphur oxides

11. Toxicological information

Effects of Exposure
General advice:
Contains: Bis(hydroxylammonium) sulfate. Can cause blood disorders. Can cause cyanosis. There is limited evidence of carcinogenicity in lifetime oral studies in rats.
Inhalation: Expected to be a low hazard for recommended handling.
Eyes: Causes serious eye irritation.
Skin: Harmful if absorbed through skin. Causes skin irritation. May cause allergic skin reaction

based on human experience.

Ingestion: Harmful if swallowed. Causes damage to organs if swallowed.

Acute Toxicity Data:

Oral LD50 (rat): ＞5000mg/kg （ATEmix）

ATE: Acute toxicity estimate

Data for Bis(hydroxylammonium) sulfate (CAS 10039-54-0):

Numerical measures of toxicity - Product Information

Oral LD50 (male Rat): 842 mg/kg

Dermal LD50 (Rabbit): 100mg/kg

Skin irritation: strong

Eye irritation: slight

12. Ecological information

The following properties are ESTIMATED from the components of the preparations.

Potential Toxicity:

Toxicity to fish (LC50):	Not classified
Persistence and degradability:	Readily biodegradable
Bioaccumulative potential	No data available
Mobility in soil	No information available.

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

Not regulated for all modes of transportation.

15. Regulatory information

Notification status

Regulatory List	**Notification status**
TSCA	All listed
DSL	All listed
NDSL	None listed

EINECS	All listed
ELINCS	None listed
NLP	None listed
AICS	All listed
IECS	All listed
ENCS	All listed
ECI	All listed
NZIoC	All listed
PICCS	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

9240 JOBO C-41 Color Negative Kit Color developer part B

Volume per unit：75ml

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

based on correct mixing and use of the product according to instructions.