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 C

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.： J9240-03

2. Hazards identification

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

Acute Toxicity - Oral	Category 3
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1
Specific target organ toxicity (repeated exposure)	Category 2

GHS-Labelling

Contains:

4-(N-ethyl-N-2-hydroxyethyl)-2-methylphenylenediamine sulfate (25646-77-9)

Symbol(s):

Signal word: Danger

Hazard statements: May be corrosive to metals. Toxic if swallowed. Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. May cause damage to organs. (Kidney.) May cause damage to organs through prolonged or repeated exposure. (Kidney.)

Precautionary statements:

Prevention: Keep only in original container. Wear protective gloves/eye protection/face protection. Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product.

Response: Absorb spillage to prevent material damage. IF exposed or if you feel unwell: Call a POISON CENTER or doctor/ physician. 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 ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/ attention. Take off contaminated clothing and wash before reuse. IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.
Storage: Store in corrosive resistant container with resistant inliner.
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.
MAY LIBERATE SULFUR DIOXIDE
HMIS III Hazard Ratings: Health - 2*, Flammability - 1, Physical Hazard - 1
NFPA Hazard Ratings: Health - 3, Flammability - 1, Instability - 1
NOTE: HMIS III and NFPA 704 (2007) hazard indexes involve data review and interpretation that may vary among companies. They are intended only for rapid, general identification of the magnitude of the potential hazards. To adequately address safe handling, ALL information in this MSDS must be considered.

3. Composition/information on ingredients

Components - (CAS-No.)	Weight percent
Water	85 - 90
4-(N-ethyl-N-2-hydroxyethyl)-2-methylphenylenediamine sulfate (25646-77-9)	10 - 15
Sodium bisulphite (7631-90-5)	0.1 – 0.5

4. First aid measures

Inhalation: If inhaled, remove to fresh air. 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. If skin irritation or rash occurs: Get medical advice/ attention. Take off contaminated clothing and wash before reuse.
Ingestion: IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.
Most important symptoms and effects, both acute and delayed: No information available.
Indication of any immediate medical attention and special treatment needed:
Treatment: No information available.

5. Firefighting measures

Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Use water spray to cool unopened containers.

Special hazards arising from the substance or mixture

Hazardous Combustion Products: Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides, (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: Elevated temperature can cause decomposition.

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. Clean surface thoroughly to remove residual contamination.

Environmental precautions: No information available.

7. Handling and storage

Precautions for safe handling

Personal precautions: Do not breathe mist or vapour at concentrations greater than the exposure limits. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Use only with adequate ventilation. Wash thoroughly after handling.

Prevention of Fire and Explosion: Keep away from heat and sources of ignition. Keep from contact with oxidizing materials.

Conditions for safe storage, including any incompatibilities: Store in cool place. Keep container tightly closed. Keep away from incompatible substances (see Incompatibility section.)

8. Exposure controls/personal protection

Occupational exposure controls

Appropriate engineering controls: 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.

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

9. Physical and chemical properties

Physical form: liquid

Color: light yellow

Odor: strong sulphur dioxide

Specific gravity: 1.16

Vapour pressure : Not date available

Vapour density: Not date available

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

Water solubility: complete

pH: 2.1

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 under normal conditions. 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: Strong oxidizing agents. Contact with strong acids may liberate sulphur

dioxide. Contact with base liberates ammonia.
Hazardous decomposition products: Nitrogen oxides (NOx), Sulphur oxides

11. Toxicological information

Effects of Exposure
General advice:
Contains: 4-(N-ethyl-N-2-hydroxyethyl)-2-methylphenylenediamine sulfate. May cause kidney damage based on animal data.
Inhalation: Expected to be a low hazard for recommended handling. 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 serious eye irritation.
Skin: Causes skin irritation. May cause an allergic skin reaction.
Ingestion: Toxic 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 based on chapter 3.1 of the GHS document .
Oral LD50 (male rat): ＞100mg/kg （ATEmix）
ATE: Acute toxicity estimate

Data for 4-(N-ethyl-N-2-hydroxyethyl)-2-methylphenylenediamine sulfate
(CAS 25646-77-9):
Acute Toxicity Data:
Oral LD50 (rat): 30 - 50 mg/kg
Skin irritation: moderate
Skin Sensitization (human): positive
Skin Sensitization (guinea pig): moderate to strong
Eye irritation (unwashed eyes): moderate

Data for Sodium bisulphite (CAS 7631-90-5):
Acute Toxicity Data:
Oral LD50 (rat): > 1310 mg/kg

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: 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

The information below is provided to assist in documentation. It represents the dangerous goods classification before any regulatory exceptions are taken (e.g. "limited quantity") and therefore may not represent the final classification.

IATA	UN number:	UN3265
	Proper shipping name:	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
	Class	8
	Sub-risks	—
	Packaging group	III
IMDG:	UN number:	UN3265
	Proper shipping name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
	Class	8
	Sub-risks	—
	Packaging group	III
ADR:	UN number	UN3265
	Proper shipping name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
	Class	8
	Sub-risks	—
	Packaging group	III

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 C

Volume per unit：25ml

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.