

Material Safety Data Sheet

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

Product Name : # 9220 JOBO E-6 Color Positive kit Bleach

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. : J9220-06

2. Hazards identification

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

Hazard class	Hazard category	Route of exposure
Corrosive to metals	Category 1	--
Skin corrosion/irritation	Category 2	--
Serious eye damage/eye irritation	Category 2A	--

CONTAINS: Ammonium ferric ethylenediaminetetraacetic acid (21265-50-9), Ammonium bromide (12124-97-9),

DANGER!



CONTAINS AN OXIDIZING MATERIAL.

HARMFUL IF INHALED OR SWALLOWED

CAUSES SKIN AND EYE BURNS

MIST OR VAPOR IRRITATING TO EYES AND RESPIRATORY TRACT

CAN CAUSE LUNG DAMAGE

3. Composition/information on ingredients

Components - (CAS-No.)	Weight percent
Water (7737-18-5)	55 - 75
Ammonium ferric ethylenediaminetetraacetic acid (21265-50-9)	20 – 30
Ammonium bromide (12124-97-9)	10 - 20

Ammonium nitrate (6484-52-2)

1 - 10

4. First aid measures

Inhalation: Get medical attention immediately even if symptoms of respiratory tract irritation are mild or quickly subside as lung injury may have occurred.

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.

5. Fire-fighting measures

Extinguishing Media: Water spray, Carbon dioxide (CO₂), Dry chemical, Foam.

Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing.

Fire or excessive heat may produce hazardous decomposition products.

Hazardous Combustion Products: Carbon oxides, nitrogen oxides (NO_x), (see also Hazardous Decomposition Products sections.)

Unusual Fire and Explosion Hazards: Mixture contains an oxidizing material and may increase the burning rate of combustible materials. Dried product residue can act as an oxidizer.

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.

Prevention of Fire and Explosion: Keep from contact with oxidizing materials. Keep away from combustible materials. Remove and wash contaminated clothing promptly.

Storage: 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

Chemical Name	Regulatory List	Value Type	Value
Ammonium ferric ethylenediaminetetraacetic acid	ACGIH	time weighted average	No data available

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

Color: dark-red

Odor: Ammonia odor

Specific gravity: 1.23

Vapour pressure: no data available

Vapour density: no data available

Boiling point/boiling range: no data available

Water solubility: no data available

pH: 5.5

Flash point: no data available

10. Stability and reactivity

Stability: Stable under normal conditions.

Incompatibility: Strong bases, sodium hypochlorite (bleach), Oxidizing agents, Combustible material, strong reducing agents. Contact with sodium hypochlorite (bleach) may form chloramine (toxic gas).

Contact with base liberates flammable material. Contact with base liberates ammonia. Material can react violently with combustible materials or reducing agents.

Hazardous decomposition products: Ammonia, chloramine, nitrogen oxides (NO_x), hydrogen bromide

Hazardous Polymerization: Hazardous polymerisation does not occur.

11. Toxicological information

Effects of Exposure

General advice:

Contains: Ammonium ferric ethylenediaminetetraacetic acid. This compound can chelate metals and may alter calcium and other cation balances.

Contains: Ammonium bromide. Ingestion of bromide salts can cause nausea, vomiting, headache, irritability, delirium, memory loss, decreased appetite, joint pain, hallucinations, stupor, coma, and acne like rash on face, legs, and trunk.

Inhalation: Harmful if inhaled. Airborne dust/mist/vapor irritating.

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.

Numerical measures of toxicity - Product Information

Oral LD50 (rat): >2000mg/kg (ATEmix)

ATE: Acute toxicity estimate

Data for Ammonium nitrate (CAS 6484-52-2):

Acute Toxicity Data:

Oral LD50 (rat): 2800mg/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

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	UN1760
	Proper shipping name:	CORROSIVE LIQUID, N.O.S. (Ammonium ferric ethylenediaminetetraacetic acid, Ammonium bromide)
	Class	8
	Packaging group	III
IMDG	UN number	UN1760
	Proper shipping name	CORROSIVE LIQUID, N.O.S. (Ammonium ferric ethylenediaminetetraacetic acid, Ammonium bromide)
	Class	8
	Packaging group	III
AND:	UN number	UN1760
	Proper shipping name	CORROSIVE LIQUIDS, N.O.S. (Ammonium ferric ethylenediaminetetraacetic acid, Ammonium bromide)
	Class	8
	Packaging group	III

15. Regulatory information

Notification status

Regulatory List

Notification status

TSCA	All listed
DSL	Not all listed
NDSL	Listed
EINECS	All listed
ELINCS	None listed
NLP	None listed
AICS	All listed
IECS	All listed
ENCS	Not all listed
ECI	Not 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

9220 JOBO E-6 Color Positive kit Bleach

Volume per unit : 650ml

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.

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