

JOBO C41 POWDER DEVELOPER

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Distributor: Omega Brandess
 626 Hanover Pike #102, Hampstead, MD 21074
 Product Name: **JOBO C-41 POWDER DEVELOPER**
 Product Number: 10123, 10124
 Catalog No: **109306**
Product Use: Photographic developer.
Customer Information Phone Number: 1-410-374-3250
CHEMTREC®: 24 Hour Emergency Transport Phone Number: 1-800-424-9300
 Date Reviewed: 04/28/2015
 Version 3.0

2. HAZARDOUS IDENTIFICATION

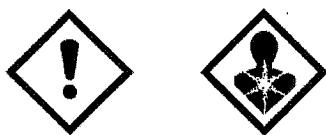
2.1 Classification of the substance or mixture

Health hazard

Acute toxicity, Oral (Category 4), H302
 Skin irritation (Category 2), H315
 Eye irritation (Category 2A), H319
 Harmful if inhaled (Category 3), H332

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word: WARNING

Hazard statement(s)

H302	Harmful if swallowed
H317	May cause allergic skin reaction
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation

Precautionary statement(s)

P261 Avoid breathing mist, dust, spray

MATERIAL SAFETY DATA SHEET



- P264 Wash skin thoroughly after handling
P280 Wear protective gloves, eye protection
P301 + P312 IF SWALLOWED; call a POISON CENTER or doctor/physician if you feel unwell
- P302 + P352 IF ON SKIN: Wash with plenty of soap
P304 + P340 IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P363 Wash contaminated clothing before reuse
P391 Collect spillage
P501 Dispose of contents to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS	OHSA PEL	ACGIH TLV	Weight %
Sodium Carbonate	497-19-8	N.E.	N.E.	70-80
DTPA	67-43-6	N.E.	N.E.	5-10
CD4	25646-77-9	15 mg/m ³ (dust)	10 mg/m ³	5-10
Sodium Sulfite	7757-83-7	N.E.	N.E.	1-5
Hydroxylamine sulfate	10039-54-0	N.E.	N.E.	1-3

4. FIRST AID MEASURES

4.1 Description of first aid measures

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

Inhalation: If symptomatic, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Ingestion: Do not induce vomiting. Only induce vomiting at the instruction of medical personnel. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Skin Contact: Flush skin with plenty of water and wash with a non-alkaline skin cleaner. Wash contaminated clothes before reuse. Get medical attention if irritation develops.

Aggravated Medical Conditions: Individuals who are under the care of a physician or have chronic ailments, should consult a physician before using this product.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Noncombustible. Use agent appropriate for surrounding fire.

5.2 Special Hazards arising from substance or mixture

Fire or excessive heat may cause production of hazardous decomposition products.

Combustion Products: Carbon dioxide, carbon monoxide, and sulfur.

5.3 Advise for firefighters

Wear self-contained breathing NIOSH/MSHA approved apparatus and protective clothing to prevent contact with skin and eyes. Fire or excessive heat may produce hazardous decomposition products. Use water to keep containers cool.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Review fire and explosion hazards and safety precautions before proceeding with cleanup. Use appropriate personal protective equipment. Avoid contact with skin and eyes. Stop the spillage. Dike the spill. Absorb spillage in inert material. Soak up with sawdust, sand, or other absorbent material. Remove non-usable solid material and/or contaminated soil for disposal in an approved and permitted landfill.

6.2 Environmental precautions

Prevent liquid from entering sewers, waterways or low areas. Discharge to sewer requires approval of permitting authority and may require pre-treatment. Contaminated surfaces should be cleaned using water.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Store in a cool, dry, well-ventilated area. Keep containers closed. Do not store or consume food, drink, or tobacco where they may become contaminated with this material.

7.2 Conditions for safe storage, including any incompatibles

Do not store with incompatible materials. Do not store with strong acids. All labeled precautions must be observed when handling, storing and transporting empty containers due to product residues. Triple rinse before disposal. Dispose of in a licensed facility.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 Control parameters

See Section 3.

8.2 Exposure controls

Use good personal hygiene when handling this product. Wash hands after use, before smoking, or using the toilet. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Personal protective equipment

Eye Protection: Safety glasses with side shields (or goggles).

Respiratory Protection: When this product is used in the intended way, no respiratory protection is anticipated to be necessary. However, if use conditions generate decomposition vapors or fumes; use a NIOSH approved respirator with HEPA cartridges.

Skin protection: Latex, rubber, or neoprene waterproof gloves are recommended.

Body protection: Rubber or plastic apron.

Respiratory protection: Local exhaust ventilation is recommended. Ventilation must be adequate to keep hazardous ingredients below their exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance And Odor: powder with no odor.

Solubility In Water: Complete

Boiling Point: Not applicable

Vapor Pressure: Not applicable

Specific Gravity: Not applicable

Melting Point: N.E.

Freezing Point: N.E.

Evaporation Rate: Not applicable

Vapor Density: Not applicable

Percent Volatile: 0

Ph: Not applicable

Molecular Weight: N.E.

Pounds Per Gallon: N.E.

V.O.C. = 0

10. STABILITY AND REACTIVITY

10.1 Reactivity

Stable

10.2 Chemical stability

Conditions To Avoid: None

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

High temperatures

10.5 Incompatible Materials

Strong acids, powdered aluminum

10.6 Decomposition Products

May produce oxides of sodium, sulfur, hydroxide, and carbon

11. TOXICOLOGICAL INFORMATION

11.1 Information of toxicological effects

Component information***Sodium Carbonate 497-19-8*****Acute toxicity:**

LD50 Oral – rat – 2800 mg/kg

Skin irritation: LD50 Dermal – rabbit > 2000 mg/kg**Eye irritation:**

No data available

Respiratory or Skin SensitizationLD50 Inhalation – guinea pig – 800 mg.m³**Carcinogenicity/mutagenicity:** none***Diethylenetriaminepentaacetic acid 67-43-6*****Acute toxicity:**

LD50 Oral – rat – > 2,000 mg/kg

Dermal:

No data available

Inhalation:

No data available

Skin irritation:

Skin – rabbit

Result: No skin irritation

Eye irritation:

Eyes – rabbit

Result: Eye irritation

Respiratory or Skin Sensitization

Buehler Test – guinea pig

Dis not cause sensitization on laboratory animals

Carcinogenicity

None

Germ cell mutagenicity

No data available

CD-4 25646-77-9**Acute toxicity:**

LD50 Oral – rat – 35 mg/kg

Dermal:

No data available

Inhalation:

No data available

Skin irritation:

No data available

Eye irritation:

No data available

Respiratory or Skin Sensitization

No data available

MATERIAL SAFETY DATA SHEET



Carcinogenicity

No data available

Germ cell mutagenicity

No data available

Sodium Sulfite 7757-83-7

Acute toxicity:

Oral LD-50 (rat) 3,560 mg/kg
Inhalation LD-50 (rat) >5,500 mg/m³ - 4 h

Dermal: no data

Skin irritation:

Skin – rabbit

Result: No skin irritation

Eye irritation:

Skin – rabbit

Result: No skin irritation

Respiratory or Skin Sensitization

Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

Carcinogenicity/mutagenicity: none

Hydroxylamine sulfate 10039-54-0

Acute toxicity:

LD50 Oral – rat – 642 mg/kg

Dermal:

LD50 Dermal – rabbit – >1,500 - <2,000 mg/kg

Inhalation:

No data available

Skin irritation:

Skin-rabbit

Result: Irritating to skin

Eye irritation:

Eyes – rabbit

Result: No eye irritation – 24h

Respiratory or Skin Sensitization

Maximisation Test – guinea pig

Result: May cause sensitization by skin contact.

Carcinogenicity

Carcinogenicity – rat- Oral

Endocrine: Adrenal cortex hyperplasia

No suspected human carcinogens

Germ cell mutagenicity

Mouse

Result: negative

12. ECOLOGICAL INFORMATION**Component information*****Sodium Carbonate 497-19-8*****12.1 Toxicity**

LC50 /96 hours: 300 mg/l (bluegill, sunfish)
EC50/48 hours: 200-227 mg/L (Ceriodaphnia)

12.2 Persistence and degradability

This product is completely biodegradable.

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Result of PBT and vPvB assessment

Assessment not available as chemical assessment not required/not conducted

Diethylenetriaminepentaacetic acid 67-43-6**12.1 Toxicity**

Toxicity to fish LC50- *Leuciscus idus* (golden orfe) ->100 mg/l – 96h

Toxicity to daphnia EC50 – *Daphnia magna* (Water flea) – 245 mg/l -48h

12.2 Persistence and degradability

Biodegradability Biotic/Aerobic – Exposure time 28d
Result: 20-60% - According to the results of test of biodegradability this product is not readily biodegradable. (CO@ Evolution Test)

12.3 Bioaccumulative potential

Indicative of bioaccumulation

12.4 Mobility in soil

No data available

12.5 Result of PBT and vPvB assessment

Assessment not available as chemical assessment not required/not conducted

12.5 Other adverse effects

No data available

MATERIAL SAFETY DATA SHEET



CD-4 25646-77-9

Data is available on the adverse effects of this material on the environment. Neither COD nor BOD data are available... Based on the chemical composition of this product it is assumed that the mixture can be treated in an acclimatized biological waste treatment plant in limited quantities. However, such treatment should be evaluated and proved for each specific biological system.

Sodium Sulfite 7757-83-7

12.1 Toxicity

Toxicity to fish LC50- *Gambusia affinis* (Mosquito fish) -660 mg/l – 96h

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Result of PBT and vPvB assessment

Assessment not available as chemical assessment not required/not conducted

12.5 Other adverse effects

None

Hydroxylamine sulfate 10039-54-0

12.1 Toxicity

Toxicity to fish mortality LC50- *Pimephales promelas* (fathead minnow) -7.2 mg/l – 96h

Toxicity to daphnia EC50 – *Daphnia magna* (Water flea) – 1.62 mg/l -48h

Toxicity to algae EC50 – *Desmodesmus subspicatus*- 0.72 mg/l -72h

Toxicity to bacteria Respiration inhibition ED50 – Sludge Treatment – 54 mg/l – 180 min

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Result of PBT and vPvB assessment

Assessment not available as chemical assessment not required/not conducted

12.5 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life.

13. DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods****Product**

Preferred options for disposal are to send to licensed reclaimers, or to permitted incinerators. Any disposal practice must be in compliance with federal, state, and local regulations. Do not dump into sewers, ground, or any body of water.

14. TRANSPORT INFORMATION**DOT (US)**

Not regulated

15. REGULATORY INFORMATION**SARA 302 Components**

The following components are subject to reporting: None

SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313: None

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

California Prop 65 Components

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

TSCA

All ingredients in this finished product are listed on the EPA TSCA INVENTORY.

SCAQMD Rule 443.1

Photochemically Reactive: No

Maximum Grams of VOC per Liter: 0 gm/L g/L

Vapor Pressure: N.E. mm Hg@ 20 Degrees C

16. OTHER INFORMATION

Full text of H-statements referred to under sections 2 and 3.

H302 Harmful if swallowed
H317 May cause allergic skin reaction

MATERIAL SAFETY DATA SHEET



H319 Causes serious eye irritation
H332 Harmful if inhaled
H335 May cause respiratory irritation

HMIS RATING

Health: 2
Flammability: 0
Reactivity: 0

OTHER ADDITIONAL INFORMATION: The information contained herein is based on the data available to us and is believed to be accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for the injuries from the use of the product described herein.