

Safety Data Sheet

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

Product Name : JOBO alpha developer part A
 Name of Manufacturer : JOBO International GmbH
 Address : Kölner Straße 58a · 51645 Gummersbach Germany
 Phone Number : +49 (0) 2261 - 545-0
 MSDS No. : national emergency number (112 for most of EU. 911 for USA)

2. Hazards identification

GHS classification

Physical-chemistry-like danger:

Harmful effect to health:

Eye irritation :	Category 2A
skin sensitization :	Category 1
germ - cell mutagenicity :	Category 1B
Carcinogenicity :	Category 2
Reproductive toxicity :	Category 1B
Specific target organ systemic toxicity - single exposure :	Category 2
Specific target organ systemic toxicity - repeated exposure :	Category 2

Environmental Hazards

Aquatic environmental hazards :	Category 2
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GHS Label Elements

Symbol(s)



Warning

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture :	Mixture		
INGREDIENT		WT. %	CAS. No
Water		80-95%	7732-18-5
Sodium carbonate		10-15%	497-19-8
Ethylenediaminetetraacetic acid disodium salt		0.5-2%	139-33-3

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 occurs: Get medical advice/ attention.

Ingestion: Get medical attention if symptoms occur.

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 extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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: None.

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. Do not eat, drink or smoke when using this product.

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

Conditions for safe storage, including any incompatibilities: Keep container tightly closed.

Keep away from incompatible substances (see Incompatibility section.)

Store between 5 °C and 40 °C

8. Exposure controls/personal protection

Individual protection measures, such as personal protective equipment

Eye protection: Wear eye/face protection.

Hand protection: Wear protective gloves.

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.

9. Physical and chemical properties

Physical form: liquid

Color: Color less

Odor: Odor less

Specific gravity: 1.14

Vapor pressure: No data available

Vapor density: No data available

Boiling point/boiling range: 100.0 °C (212.0 °F)

Melting point/range: No data available

Water solubility: No data available

pH: 9.7

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.
 Possibility of hazardous reactions: Hazardous polymerisation does not occur.
 Conditions to avoid: No data available
 Incompatible materials: None with common materials and contaminants with which the material may reasonably come into contact.
 Hazardous decomposition products: Nitrogen oxides (NO_x)

11. Toxicological information

Effects of Exposure
 General advice:
 Eyes: Causes serious eye irritation.
 Skin: Causes skin irritation.
 Ingestion: Expected to be a low ingestion hazard.

Data for Sodium carbonate (497-19-8)
 Acute Oral: LD50 (rat) = 2800 mg/kg.
 Acute Inhalation: LC50 (rat) = 2.3 mg/L.
 Eyes: Irritating (rabbit, EPA 16 CFR 1500.42); Highly irritating (rabbit, Equivalent to OECD 405).
 Skin: Not irritating (rabbit, OECD 404).
 Carcinogenicity: Not listed as a carcinogen or potential carcinogen by the National Toxicology Program (NTP),

the International Agency for Research on Cancer (IARC), or the U.S. Occupational Safety and Health Administration (OSHA).

12. Ecological information

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

Potential Toxicity:

Toxicity to fish (LC50):	> 100 mg/l
Toxicity to daphnia (EC50):	> 100 mg/l
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

JOBBO alpha developer part A

Volume per unit : 300ml

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.

Safety Data Sheet

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

Product Name : JOBO alpha developer part B
 Name of Manufacturer : JOBO International GmbH
 Address : Kölner Straße 58a · 51645 Gummersbach Germany
 MSDS No. : national emergency number (112 for most of EU. 911 for USA)

2. Hazards identification

GHS Classification : This product doesn't fall under the classification criteria.

Health Hazards

Skin : May cause skin irritation.
 Eye : May cause eye irritation.
 Inhalation : May cause respiratory irritation.
 Ingestion : May be harmful if swallowed
 Extra Information : Especially, none

Environmental Hazards No data

Aquatic environmental hazards : Category 2

GHS Label Elements

Symbol(s)



Warning

GHS08

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture :	Mixture		
INGREDIENT		WT. %	CAS. No
Water		85-95%	7732-18-5
Potassium 2,5-dihydroxybenzenesulfonate		1-5%	21799-87-1
N-Ethyl-N(2-hydroxyethyl)-p-phenylenediamine sulfate		0.5-2%	4327-84-8
Sodium sulfite		3-10%	7757-83-7
1,2-propanediol		< 0.5%	57-55-6

4. First aid measures

- Inhalation : Remove patient from exposure, keep warm and at rest Obtain medical attention if ill effects occur
- Skin Contact : Remove contaminated clothing
Wash skin with water
If symptoms develop, obtain medical attention
- Eye Contact : Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 10 minutes
Obtain medical attention if ill effects occur
- Ingestion : Wash out mouth with water
Obtain medical attention if ill effects occur

5. Firefighting measures

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

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: None.

6. Accidental release measures

Personal Precautions : Avoid contact with skin and eyes.

Environmental precaution : Do not release to the environment

Method and materials for contaminant and cleaning up :

Absorb spillages in sand, earth or any suitable absorbent material.

Transfer to a container for disposal

7. Handling and storage

Handling :

Avoid opening drums in unventilated areas to avoid concentrated vapors.

Avoid breathing vapors.

Avoid contact with skin and eyes.

Storage :

Keep away from frost

Store between 5 °C and 40 °C

Stir well before use

8. Exposure controls/personal protection

Exposure Control :

Avoid contact with skin and eyes.

Do not breathe vapor/spray.

Use only in well-ventilated areas.

Personal Protection Equipment :

Respiratory Protection : Wear suitable respiratory protective equipment.

Protective Gloves : Use of gloves is recommended.

Eye Protection : Safety goggles.

Skin Protection : Wear suitable protective clothing.

Ventilation : General room ventilation adequate.

9. Physical and chemical properties

Physical form: liquid

Color: Color less

Odor: Odor less

Specific gravity: 1.06

Vapor pressure: No data available

Vapor density: No data available
 Boiling point/boiling range: 100.0 °C (212.0 °F)
 Melting point/range: No data available
 Water solubility: No data available
 pH: 6.6
 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.
 Possibility of hazardous reactions: Hazardous polymerisation does not occur.
 Conditions to avoid: No data available
 Incompatible materials: None with common materials and contaminants with which the material may reasonably come into contact.
 Hazardous decomposition products: Nitrogen oxides (NO_x), Sulphur oxides

11. Toxicological information

Effects of Exposure
 General advice:
 Eyes: Causes serious eye irritation.
 Skin: Causes skin irritation.
 Ingestion: Expected to be a low ingestion hazard.

Route of entry : May cause absorption in the body by inhalation, dermal and oral.

Irritant properties : This product has a possibility of irritating to skin and eyes.

Acute toxicity :

ORAL (LD50)	>2000mg/kg (rat)
INHALATION (LD50)	No Data
DERMAL (LD50)	No Data

Data for Hydroquinone (123-31-9)

LD50 Oral - Rat - 367,3 mg/kg

LD50 Dermal - Rabbit - > 2.000 mg/kg

12. Ecological information

No data on possible environmental effect have been found.

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

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ECI	All listed



NZIoC All listed

PICCS All listed

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16. Other information

JOB0 alpha developer part B

Volume per unit : 300ml

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