

Film developer

Very fine grain

High contour sharpness

BERGGER Superfine

1. Identification

Product identifier : BERGGER Superfine
Application : Film Developer
Supplier : BERGGER SAS, Les plaines de Rejatas, 87260 Vicq-sur-Breuilh
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2. Hazards identification

Classification according to Regulation (EC) No 1272/2008

Acute Tox. 4 H302 Harmful if swallowed

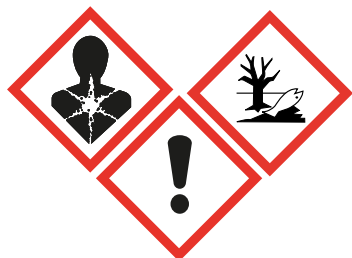
Skin Irritation. 2 H315 Causes skin irritation.

Target Tox 2 H373 May cause damage to organs through prolonged or repeated exposure

Aquatic acute. 1 H400 Very toxic to aquatic life.

Aquatic Long-Term 1, H410 Very toxic to aquatic life with long lasting effects.

Hazard pictograms



Signal word

Warning

Hazard-determining components of labelling

Metol

Hazard statements

H302 // Harmful if swallowed

H315 // Causes skin irritation

H373 // May cause damage to organs through prolonged or repeated exposure

H400 //Very toxic to aquatic life.

H410 // Very toxic to aquatic life with long lasting effects.

Precautionary statements

P102 Keep out of reach of children.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P264 Wash ... thoroughly after handling.

P270 Do no eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 If on skin wash with plenty of soap and water.

P304+P340 If inhaled remove victim to fresh air and keep at rest in a position comfortable for breathing.

P301+P312 If swallowed call a POISON CENTER or doctor/physician if you feel unwell.

P305+P351+P338 If in eyes rinse cautiously with water for several minutes, Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313 If exposed or concerned get medical advice/attention.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P330 – Rinse mouth.

P332+P313 If skin irritation occurs get medical advice/attention.

P337+P313 If eye irritation persists: get medical advice/attention.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

3. Composition/information on ingredients

Mixtures

Mixture of the substances listed below with harmless additions.

Dangerous components		
CAS: 12125-02-9	Ammonium Chloride H302 - Ac. Tox. 4	<4%
CAS: 55-55-0	4 methylaminophenol sulfate Ac. Tox. 4, H302 Stot res.2, H373 Skin sens. 1, H317 Aquatic Tox.1, H400, Aquatic Long-Term 1., H410	<1%

4. First aid measures

General information

Instantly remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 24 hours after the accident.

After inhalation Unlikely route of exposure as the product does not contain volatile substances. Move the exposed person to fresh air at once. Provide rest, warmth and fresh air. Get medical attention if any discomfort continues.

After skin contact Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Contact physician if irritation continues.

After eye contact Remove victim immediately from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Contact physician if irritation persists.

After swallowing NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Remove victim immediately from source of exposure. Rinse mouth thoroughly. Drink a few glasses of water or milk. Provide rest, warmth and fresh air. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Get medical attention.

5. Firefighting measures

Suitable extinguishing agents

CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

For safety reasons unsuitable extinguishing agents Water with a full water jet.

Special hazards arising from the substance or mixture Can be released in case of fire

Carbon monoxide

Advice for firefighters

Protective equipment

Do not inhale explosion gases or combustion gases.

Wear self-contained breathing apparatus.

Do not use a heavy water stream.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear protective clothing.
Avoid causing dust.

Environmental precautions:

Inform respective authorities in case product reaches water or sewage system.
Do not allow to enter drainage system, surface or ground water.

Methods and material for containment and cleaning up:

Dispose of contaminated material as waste according to item 13.

Reference to other sections

See Section 8 for information on personal protection equipment.

7. Handling and storage

Precautions for safe handling

Open and handle container with care.
Prevent formation of dust.

Information about protection against explosions and fires: No special measures required.

Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and containers: No special requirements.

Information about storage in one common storage facility:

Keep away from foodstuffs, beverages and food.

Further information about storage conditions:

Store in closed original container in a dry place. Store under well-ventilated conditions at a temperature below 25°C.

Storage class Chemical storage

Specific end use(s) No further relevant information available.

8. Exposure controls/personal protection

Control parameters

Components with limit values that require monitoring at the workplace:

Airborne Exposure Limits:

Not determined

Exposure controls

General protective and hygienic measures

The usual precautionary measures should be adhered to general rules for handling chemicals.

Keep away from foodstuffs, beverages and food.

Take off immediately all contaminated clothing.

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

Do not eat, drink or smoke while working.

Personal protective equipment

Breathing equipment: Not required.

Protection of hands:

Protective gloves. The protective gloves to be used must comply with the specifications of the EC directive 89/686/EEC and the resultant standard EN 374.

This recommendation applies only to the product stated in the Safety Data Sheet and supplied by us as well as to the purpose specified by us.

Only use chemical-protective gloves with CE-labelling of category III.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Penetration time of glove material

The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Synthetic gloves

Value for permeation: Level:

>= 3 (60 min)

Not suitable are gloves made of the following materials:

Natural rubber, NR

Eye protection: Tightly sealed safety glasses or face shield.

Body protection: Protective work clothing.

9. Physical and chemical properties

Information on basic physical and chemical properties	
<i>Appearance</i>	
Form	Liquid
Colour	Colourless to yellowish
Odour	Not characteristic
<i>pH Value at 20°C</i>	8-9
<i>Boiling point / Boiling Range</i>	> 100°C
<i>Ignition temperature</i>	Not determined
<i>Self-inflammability</i>	Product is not selfigniting.
<i>Danger of explosion</i>	Product is not explosive.
<i>Density at 20°C</i>	1,0 - 1,05 g/cm ³
<i>Solubility in / Miscibility with</i>	
Water	Fully miscible
<i>Solvent content</i>	
organic solvents	0.0%
water	~ 77%
<i>Other information</i>	No further relevant information available.

10. Stability and reactivity

Reactivity

Chemical stability

Stable under the prescribed storage conditions. No particular stability concerns.

Possibility of hazardous reactions Reacts with strong acids. React with acids releasing Carbon dioxide

Conditions to avoid -

Hazardous decomposition products: -

11. Toxicological information

Information on toxicological effects

This chemical formulation has not been tested for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

Acute toxicity		
LD/LC50 values that are relevant for classification:		
Metol		
Oral	LD50	565 mg/kg (rat)

12. Ecological informations

Toxicity

Toxicity

Dangerous for the environment: May cause long-term adverse effects in the aquatic environment.

Metol

EC50 0,019 mg/l daphnia magna 96 h

LC50 0,25 mg/l Pimephales promelas 96 h

Persistence and degradability Not determined

Bioaccumulative potential Not determined

Behaviour in environmental systems: Not determined

Mobility in soil No further relevant information available.

Ecotoxic effects: No further relevant information available.

Remark: Very toxic for fish

Other adverse effects No further relevant information available.

13. Disposal considerations

Waste treatment methods

Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Must be specially treated under adherence to official regulations.

Uncleaned packagings

Recommendation:

Non contaminated packagings can be used for recycling.

Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

Recommended cleaning agent: Water, if necessary with cleaning agent.

14. Transport information

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Water hazard class: highly water-endangering.

16. Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing data specification sheet:

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Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the

International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Sources

applicable EEC directives: 1907/2006, 1272/2008