

Material Safety Data Sheet According to 91/155 EEC

Printing date 11.02.2005

Reviewed on 11.02.2005

1 Identification of substance:

- **Product details:**
- **Trade name:** ECN-2/ECP-2 STOP-R
- **Application of the substance / the preparation**
Professional colour film photographic processing solution
- **Manufacturer/Supplier:**
Calbe Chemie GmbH
Stadtfeld 31
D-39240 Calbe
Tel.: +49 (0)39291 425-0
Fax: +49 (0)39291 425-25
e-mail: info@calbe-chemie.de
www.calbe-chemie.de
- **Informing department:** Tel.: +49 (0)39291 425-0
- **Emergency information:** Tel.: +49 (0)6132-84463

2 Composition/Data on components:

- **Chemical characterization**
- **Description:** Mixture of the substances listed below with harmless additions.

- **Dangerous components:**

CAS: 7664-93-9	sulphuric acid	C; R 35	25-50%
EINECS: 231-639-5			

- **Additional information** For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

- **Hazard designation:**



C Corrosive

- **Information pertaining to particular dangers for man and environment**
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
R 35 Causes severe burns.
- **Classification system**
The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

4 First aid measures

- **General information**
Instantly remove any clothing soiled by the product.
Personal protection for the First Aider.
- **After inhalation** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact**
Instantly rinse with water.

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Wash with polyethylene glycol 400 and then rinse with copious amounts of water.
Seek medical treatment.

- **After eye contact**
Rinse opened eye for several minutes under running water.
Use eye protection.
Call a doctor immediately.
- **After swallowing**
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; instantly call for medical help.

5 Fire fighting measures

- **Suitable extinguishing agents** Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **Special hazards caused by the material, its products of combustion or resulting gases:**
Can be released in case of fire
Sulphur oxides (SO_x)
- **Protective equipment:**
Wear self-contained breathing apparatus.
Wear full protective suit.
- **Additional information**
The product is not flammable
Cool endangered containers with water spray jet.

6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:**
If material reaches soil inform authorities responsible for such cases.
Dilute with much water.
Do not allow to enter drainage system, surface or ground water.
Inform respective authorities in case product reaches water or sewage system.
- **Measures for cleaning/collecting:**
Dilute with much water.
Use neutralizing agent.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **Additional information:** See Section 8 for information on personal protection equipment.

7 Handling and storage

- **Handling**
- **Information for safe handling:**
Store in cool, dry place in tightly closed containers.
Open and handle container with care.
Ensure good ventilation/exhaustion at the workplace.
Restrict the quantity stored in the work place.

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When diluting, always stir the product into standing water.

· **Information about protection against explosions and fires:**

The product is not flammable

Have fire extinguishing equipment ready in case of nearby fire.

· **Storage**

· **Requirements to be met by storerooms and containers:**

Store only in the original container.

Prevent any penetration into the ground.

· **Information about storage in one common storage facility:**

Do not store together with alkalis (caustic solutions).

Store away from oxidizing agents.

Store away from water.

· **Further information about storage conditions:**

Store in a locked cabinet or with access restricted to technical experts or their assistants.

Store in a cool place.

· **Recommended storage temperature:** 5-30°C

· **Storage class** LGK 8B (VCI-Concept)

8 Exposure controls and personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **Additional information:** The lists that were valid during the compilation were used as basis.

· **Personal protective equipment**

· **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.

Ensure that washing facilities are available in the work place.

· **Breathing equipment:** Not necessary if room is well-ventilated.

· **Protection of hands:**

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

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.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Check protective gloves prior to each use for their proper condition.

After use of gloves apply skin-cleaning agents and skin cosmetics.

· **Material of gloves**

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.35 mm

Chloroprene rubber, CR

Butyl rubber, BR

Fluorocarbon rubber (Viton)

PVC gloves

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Recommended thickness of the material:

≥ 0,5 mm

· **Penetration time of glove material**

Value for permeation: Level ≥ 6 (480 min)

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.

· **As protection from splashes 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.

· **Body protection:**

Acid resistant protective clothing

Boots

9 Physical and chemical properties:

· **General Information**

Form:	Fluid
Colour:	Colourless Clear
Odour:	Not characteristic

· **Change in condition**

Melting point/Melting range: Not determined

Boiling point/Boiling range: > 100°C

· **Flash point:** > 100°C

· **Self-inflammability:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive.

· **Critical values for explosion:**

Oxidizing properties None

· **Vapour pressure at 20°C:** 23 hPa

· **Density at 20°C** 1.202 g/cm³

· **Solubility in / Miscibility with**

Water: Fully miscible

· **pH-value at 25°C:** > 1

· **Viscosity:**

dynamic: Not determined

kinematic: Not determined

· **Solvent content:**

Organic solvents: 0.0 %

Water: 70.3 %

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10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Dangerous reactions**
Reacts violently with water
When diluting, always add acid to water, never vice versa
Reacts with alkali and metals
- **Dangerous products of decomposition:** Sulphur oxides (SO_x)

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
 - **on the skin:** Strong caustic effect on skin and mucous membranes.
 - **on the eye:** Strong caustic effect.
- **Sensitization:** No sensitizing effect known.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:
Corrosive
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

12 Ecological information:

- **Information about elimination (persistence and degradability):** Not determined
- **Behaviour in environmental systems:** Not determined
- **Mobility and bioaccumulation potential:** Not determined
- **Ecotoxicological effects:** Not determined
- **Acquatic toxicity:** Not determined
- **Behaviour in sewage processing plants:** Not determined
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
Must not reach sewage water or drainage ditch undiluted or unneutralized.

13 Disposal considerations

- **Product:**
- **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.

- **European waste catalogue**

09 01 99	wastes not otherwise specified
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- **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

- **Land transport ADR/RID (cross-border)**



- **ADR/RID-GGVS/E Class:** 8 Corrosive substances.
- **Kemler Number:** 80
- **UN-Number:** UN 2796
- **Packaging group:** II
- **Label:** 8
- **Designation of goods:** SULPHURIC ACID

- **Maritime transport IMDG:**



- **IMDG Class:** 8
- **UN Number:** UN 2796
- **Label:** 8
- **Packaging group:** II
- **EMS Number:** F-A,S-B
- **Marine pollutant:** No
- **Correct technical name:** SULPHURIC ACID

- **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 8
- **UN/ID Number:** UN 2796
- **Label:** 8
- **Packaging group:** II
- **Correct technical name:** SULPHURIC ACID

15 Regulatory information

- **Designation according to EC guidelines:**
The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)

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· **Code letter and hazard designation of product:**



C Corrosive

· **Hazard-determining components of labelling:**

sulphuric acid

· **Risk phrases:**

35 Causes severe burns.

· **Safety phrases:**

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

· **National regulations**

· **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

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.

· **Relevant R-phrases**

35 Causes severe burns.

· **Contact:** Phon: ++49 39291 4250

· **Sources** Internal physical tests, MSDS of the ingredients, EC-Directives

· * **Data compared to the previous version altered.**