

1. Identification of the substance/preparation and of the company

- Identification of the product:

Trade name: SPUR Cool Black

- Use of the substance/preparation: photographic developing agent, particularly for development of black and white photographic papers.

- Manufacturer/distributor identification

Manufacturer: SPUR Photochemie
Dr. Heidrich und Schain GbR
Schmiedestr. 31, 52379 Langerwehe
Germany
Phone: 0049 (0)2423-6198
Fax: 0049 (0)2423-406980
Email: schain@spur-photo.com

Distributor: SPUR Photochemie
Dr. Heidrich und Schain GbR
Schmiedestr. 31, 52379 Langerwehe
Germany
Phone: 0049 (0)2423-6198
Fax: 0049 (0)2423-406980
Email: schain@spur-photo.com

- Further information phone: 0049 (0)2423-6198

- Competent person, responsible for Safety Data Sheet (email):
schain@spur-photo.com (management)

- Emergency telephone (Germany): 0049 (0)30-19240 (Berlin poison control centre for symptoms of intoxication and embryonal toxicology); 0049(0) 6131-19240 (advice centre for poisoning Mainz)

2. Hazards identification

- Classification of the substance or mixture
- Classification according to regulation (EC) No. 1272/2008

Acute Tox. 4; Skin Irrit. 2; Skin sens. 1; Eye Irrit. 2 ; Muta. 2 ; Carc. 2 ; Aqu. Chron. 2

H 302 Harmful if swallowed ; H 312 Harmful in contact with skin H 315 Causes skin irritation
H 317 May cause an allergic skin reaction; H 319 Causes serious eye irritation
H 341 Suspected of causing genetic defects; H 351 Suspected of causing cancer
H 411 Toxic to aquatic life with long lasting effects

- Labelling elements
- Labelling according to regulation (EC) No. 1272/2008

The mixture is classified and labelled according to the CLP Regulation

- Hazard pictograms



GHS 08



GHS 07

- Signal word: Warning
- Hazard statements

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- Precautionary statements

P 202 Do not handle until all safety precautions have been read and understood
P 281 Use personal protective equipment as required
P 308 + P313 IF exposed or concerned: Get medical advice/attention
P 405 Store locked up
P 501 Dispose of contents/container to hazardous waste

- Other hazards
- Results of the PBT and vPvB assessments
- PBT: not applicable
- vPvB: not applicable

3. Composition/Information on ingredients

- Chemical characterisation: aqueous solution
- Hazardous ingredients:

Potassium carbonate: EINECS: 209-529-3; CAS RN: 584-08-7

Percentage: < 6 %

Classification according to Regulation (EC) No. 1272/2008:

Skin Irrit. 2 H 315; Eye Irrit. 2 H 319; STOT SE 3 H 335

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Sodium Hydroxide: EINECS 215-185-5; CAS RN: 1310-73-2

Percentage: < 1.5 %

Classification according to Regulation (EC) No. 1272/2008:

Met. Corr. 1 H 290; Skin corr. 1A H 314

Trilon C: EINECS: 205-391-3; CAS RN: 140-01-2

Percentage: < 1 %

Classification according to Regulation (EC) No. 1272/2008:

Acute Tox. (inhalative) 4 H 332; Repr. Lact. 2 H 361

Diethylene glycol: EINECS: 203-872-2; CAS RN: 111-46-6

Percentage: < 2 %

Classification according to Regulation (EC) No. 1272/2008:

STOT RE 2 H 373; Acute Tox. 4 H 302

Sodium Tetraborate Decahydrate: EINECS: 215-540-4; CAS-RN: 1303-96-4

Percentage: < 0.5 %

Classification according to Regulation (EC) No. 1272/2008:

Repr. 1B H 360; Eye Irrit. 2 H 319

4-Hydroxymethyl-4-methyl-1-phenyl-3-pyrazolidone: EINECS: 235-920-3; CAS RN: 13047-13-7

Percentage: < 0.2 %

Classification according to Regulation (EC) No. 1272/2008:

Acute Tox. 4 H 302; Skin Sens. 1 H 317 ; Aquatic Chronic 2 H 411

Hydroquinone (1,4-Dihydroxybenzene): EINECS: 204-617-8; CAS RN: 123-31-9

Percentage: < 2.5 %

Classification according to Regulation (EC) No. 1272/2008:

Carc.2 H 351; Muta 2 H 341; Acute Tox. 4 H 302; Eye Dam. 1 H 318; Skin Sens. 1 H 317;

Aquatic Acute. 1 H 400

- Additional reference: The wording of the hazard warnings can be looked up under section 16.

4. First-aid measures

- General information: Remove items of clothing contaminated by the product immediately.
- Inhalation: Move affected person to fresh air and keep at rest. In case of persistent complaints seek medical advice.
- Skin contact: Wash off thoroughly with plenty of water.
- Eye contact: Remove contact lenses, open eyelids, flush thoroughly with water and consult a doctor.
- Ingestion: If swallowed, rinse mouth and drink plenty of water. Do not induce vomiting. Seek medical advice.
- Special information for your doctor: None.

5. Fire-fighting-measures

- Suitable extinguishing media: CO₂, extinguishing powder, water spray. Fight larger fires with water spray jets or alcohol-resistant foam.
- Non suitable extinguishing media: None
- Specific Hazards: Hazardous combustion products: sulphur dioxide
- Protective equipment: Do not inhale explosion and combustion gases. Wear breathing apparatus and protective clothing.
- Particular fire and explosion hazards: None

6. Accidental release measures

- Personal precautions: Provide for sufficient ventilation.
- Environmental precautions: Do not empty into drains; prevent the product from contaminating surface or ground water. If waters or sewage are contaminated, report to the competent authorities. Dilute with plenty of water.
- Methods for cleaning up: Absorb with a liquid-binding agent (sand, mountain flour, sSurebinder, universal binding agent, sawdust). Sweep up and store in suitable container, dispose of contaminated material as waste labelled according to waste law in force.
- Additional information: Flush residues with water.

7. Handling and storage

- Handling:

- Safe handling: Provide for proper ventilation in work area. Avoid long-term and repeated skin contact; no special measures required if used properly.
- Fire and explosion control: No special measures required.

- Storage:

- Storage facilities and containers: No specific requirements.
- Storage with other substances: Do not store with acids, strong oxidants, and food.

- Further information on storage conditions:

- Store in well-sealed containers cool and dry. Store away from heat and direct sunlight. Do not expose to light. Keep locked up and out of reach of children. Recommended storage temperature: 5 to 15°C / 41 to 59°F.

- Storage class:

- Classification according to Ordinance on Industrial Safety and Health: not applicable

8. Exposure controls/personal protection

- Additional information for system design: None

- Components with workplace-specific control parameters:	
111-46-6 Diethylene glycol	
MAC (Germany)	44 mg/m ³ ; 10 ml/ m ³ 4(I); DFG, Y
1303-96-4 Sodium Tetraborate Decahydrate	
MAC (Germany)	0,5 mg/m ³ ; 2(I); AGS, Y, 10;

- Personal protective equipment:
General protection and hygiene measures: Wash hands before breaks and end of work. Do not inhale gases, vapours, or aerosols. Avoid skin and eye contact.
Respiratory protection: Not required.
Hand Protection: Wear protective gloves made from materials impermeable and resistant to the product/substance/preparation. The materials have to be chosen with due regard to penetration times, permeation rates, and degradation.
Glove material: The choice of a suitable glove not only depends on the material, but also on further quality features and may vary from manufacturer to manufacturer. As the product is a preparation composed of a number of substances, the stability of the glove materials is not predictable and, therefore, needs to be tested before use. The liquid tightness of the glove has to be tested before it is used again. Due to a lack of testing, no glove material can be recommended for the product/substance/preparation.
Penetration time of the glove material: The exact breakthrough time can be given by the protective gloves manufacturer and is to be observed.
Eye Protection: Wear safety goggles.
Skin/body protection: Wear protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

- General information Form: Colour: Odour:	liquid yellow specific
- Change of state Melting point / melting range Boiling point / boiling range	not determined > 100° C
- Flash point	not applicable
- Auto-flammability	no ~
- Explosion hazard	no ~
- Vapour pressure at 20° C	not specified
- Density at 20° C	1.245 g/cm ³
- Solubility in / miscibility with water	complete
-pH-value at 20° C	11,05
- Solvent content Organic solvent: Water: VOC (EC):	0.0 % 70,3 % 0.0 %
- Solids content:	29,7 %

10. Stability and reactivity

- Thermal decomposition/conditions to avoid:
No decomposition when used properly.
- Materials to avoid: Strong acids and oxidising agents
- Hazardous reactions: No hazardous reactions known.
- Hazardous decomposition products: no hazardous decomposition products known.

11. Toxicological information

- Acute toxicity

- Classification relevant LD/LC50 values:		
123-31-9 Hydroquinone		
Oral:	LD50	320 mg/kg (rat)
13047-13-7 4-Hydroxymethyl-4-methyl-1-phenyl-3-pyrazolidone		
Oral:	LD50	1000 mg/kg (rat)
Dermal:	LD50	> 2000 mg/kg (rat)
140-01-2 Trilon C		
Oral:	LD50	4550 mg/kg (rat)
Dermal:	LD50	> 2000 mg/kg (rat)
Inhalative:	LC50	4 h 1000 – 5000 mg/m ³ (rat)

111-46-6 Diethylene glycol		
Oral:	LD50	12565 mg/kg (rat)
Oral:	LDLo	1000 mg/kg (human)
1303-96-4 Sodium Tetraborate Decahydrate		
Oral:	LD50	2660 mg/kg (rat)
Dermal:	LD50	> 2000 mg/kg (rabbit)
1310-73-2 Sodium Hydroxide		
Oral:	LD50	2000 mg/kg (rat)
584-08-7 Potassium carbonate		
Oral:	LD50	> 2000 mg/kg (rat)

- Primary irritant effect:
- Skin: Irritant effect.
- Eye: Irritant effect.
- Sensitisation: May cause sensitisation by skin contact

12. Ecological information

- Ecotoxicity

- Aquatic toxicity	
1310-73-2 Sodium Hydroxide	
EC50	48h: 40.4 mg/l (crustacea)
LC50	96h: 196 mg/l (fish)
123-31-9 Hydroquinone	
EC50	48h: 0.29 mg/l (daphnia magna)
LC50	96h: 0.044 mg/l (Pimepales promelas)
13047-13-7 4-Hydroxymethyl-4-methyl-1-phenyl-3-pyrazolidone	
EC50	24h: 7.1 ppm (Daphnia magna)
LC50	1 – 10 mg/l (fish fathead minnow / Pimepales promelas)
LC50	35 mg/l (fish ide / Leuciscus idus auratus Bade)
LC50	96h: 32 ppm (fish rainbow trout / Onchorhynchus mykiss)

- Remark: Toxic to fish
- General Information:
Water hazard class 2 (self-assessment according to VwVwS(German administrative regulation regarding water pollutants)): Hazardous to water.
Do not empty into drains; do not let product contaminate ground water, waters or sewage.
Toxic to aquatic organisms.

13. Disposal considerations

- Product:
- Recommendation: Do not dispose of the product through household waste. Do not let product contaminate sewage.

- European Waste Directory	
090101	water-based developer and activator solutions

- Uncleaned packaging:
- Recommendation: Disposal according to official regulations and requirements.
- Recommended cleaning agent: Water, if necessary, with cleaning agent.

14. Transport information

- Land transport ADR/RID and GGVS/GGVE (cross-border/inland): - ADR/GGVS/E class: No dangerous good, not classified
- Maritime transport IMDG/GGVSea: - IMDG/GGVSea-class: No dangerous good, not classified - Marine pollutant: No
- Air transport ICAO-TI and IATA-DGR: - ICAO/IATA class: No dangerous good, not classified
- UN "Model Regulation" : No dangerous good, not classified

15. Regulatory information

Designation according to EC guidelines:

The mixture is classified and labelled according to the CLP Regulation (EC) No. 1272/2008:

- Hazard pictograms



GHS 08



GHS 07

- Signal word: Warning

- Hazard statements

H 302 Harmful if swallowed ; H 312 Harmful in contact with skin H 315 Causes skin irritation
H 317 May cause an allergic skin reaction; H 319 Causes serious eye irritation
H 341 Suspected of causing genetic defects; H 351 Suspected of causing cancer
H 411 Toxic to aquatic life with long lasting effects

- Precautionary statements

P 202 Do not handle until all safety precautions have been read and understood
P 273 Avoid release to the environment
P 281 Use personal protective equipment as required
P 308 + P313 IF exposed or concerned: Get medical advice/attention
P 405 Store locked up
P 501 Dispose of contents/container to hazardous waste

Special designation of certain preparations: -

National regulations:

Classification according to Ordinance on Industrial Safety and Health (BetrSichV): -

Water hazard class (according VwVwS): Water hazard class 2 (self-assessment): hazardous to water

16. Other information

The data given in this safety data sheet is based on our present knowledge. It does not guarantee any specific product features and does not establish a contractual legal relationship.

- Relevant H statements:

H 290	May be corrosive to metals
H 302	Harmful if swallowed
H 312	Harmful in contact with skin
H 314	Causes severe skin burns and eye damage
H 315	Causes skin irritation
H 317	May cause an allergic skin reaction
H 318	Causes serious eye damage
H 319	Causes serious eye irritation
H 332	Harmful if inhaled
H 335	May cause respiratory irritation
H 341	Suspected of causing genetic defects
H 351	Suspected of causing cancer
H 360	May damage fertility or the unborn child
H 361	Suspected of damaging fertility or the unborn child
H 373	May cause damage to organs through prolonged or repeated exposure
H 400	Very toxic to aquatic life
H 410	Very toxic to aquatic life with long lasting effects
H 411	Toxic to aquatic life with long lasting effects

- Responsible for data sheet: management

- Person of contact: Dipl.-Ing. Heribert Schain

- 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)

RID: Règlement internationale concernant le transport des marchandises dangereuses par chemin de fer (Regulations concerning the international Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

VOC: Volatile Organic Compounds (USA, EC)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

LDLo Lethal dose low

EC50 half maximal effective concentration