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

- Identification of the product:

Trade name: SPUR Omega X, consisting of part A and part B

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

Both parts:

Acute Tox. 4; Skin Irrit. 2; Skin sens. 1; Eye Irrit. 2; Aquatic Chronic 3

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- H 302 Harmful if swallowed
- H 315 Causes skin irritation
- H 317 May cause an allergic skin reaction
- H 319 Causes serious eye irritation
- H 412 Harmful 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

Both parts:

- Hazard pictograms



- Signal word: Warning
- Hazard statements
- H 302 Harmful if swallowed
- H 315 Causes skin irritation
- H 317 May cause an allergic skin reaction
- H 319 Causes serious eye irritation
- H 412 Harmful to aquatic life with long lasting effects
- Precautionary statements
- P 273 Avoid release to the environment
- P 301 + P 312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- P 302 + P 352 IF ON SKIN: Wash with plenty of soap and water
- P 305 + P 351 + P 338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P 337 + P 313 If eye irritation persists: Get medical advice/attention
- Other hazards
- Results of the PBT and vPvB assessments
- PBT: not applicable
- vPvB: not applicable

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3. Composition/Information on ingredients

Part A:

- Chemical characterisation: aqueous solution

- Hazardous ingredients:

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

Percentage: < 2 %

Classification according to Regulation (EC) No. 1272/2008: Skin Irrit. 2 H 315; Eye Irrit. 2 H 319; STOT SE 3 H 335

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

Trisodium phosphate dodecahydrate: EINECS: 231-509-8; CAS RN: 10101-89-0

Percentage: < 1 %

Classification according to Regulation (EC) No. 1272/2008: Skin Irrit. 2 H 315; Eye Irrit. 2 H 319; STOT SE 3 H 335

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

Percentage: < 0.05 %

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

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

1-Phenyl-3-pyrazolidinone: EINECS: 202-155-1, CAS-RN. 92-43-3

Percentage: < 0.05 %

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

Acute Tox. 4 H 302; Aquatic Chronic 2 H 411

4-Methylaminophenol sulfate: EINECS:200-237-1: CAS RN 55-55-0

Percentage: < 0.2 %

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

STOT RE 2 H 373; Aquatic Acute 1 H 400; Aquatic Chronic 1 H 410; Acute Tox. 4 H 302; Skin Sens.1 H 317

Hydroquinone sulfonic acid (potassium salt): EINECS: 244-584-7; CAS RN: 21799-87-1

Percentage: < 2 %

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

Eye Irrit. 2 H 319; Skin Sens. 1 H 317

Hydroquinone (1.4-Dihydroxybenzene): EINECS: 204-617-8; CAS-RN: 123-31-9

Percentage: < 0.3 %

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.

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Part B:

- Chemical characterisation: aqueous solution

- Hazardous ingredients:

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

Percentage: < 1 %

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

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

Potassium Thiocyanate: EINECS: 206-370-1; CAS RN: 333-20-0

Percentage: < 2 %

Classification according to Regulation (EC) No. 1272/2008: Acute Tox. 4 H 302; H 312; H 332; Aquatic Chronic 3 H 412

Trisodium phosphate dodecahydrate: EINECS: 231-509-8; CAS RN: 10101-89-0

Percentage: < 1 %

Classification according to Regulation (EC) No. 1272/2008: Skin Irrit. 2 H 315; Eye Irrit. 2 H 319; STOT SE 3 H 335

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

- 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

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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, acid binding agent, 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.

- Storage class:

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

8. Exposure controls/personal protection

- Additional information for system design: None

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- Components with workplace-specific control parameters: None

- 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.

Glove material breakthrough time layer thickness $\geq 0.4 \text{ mm}$ Butvl rubber: > 480 min $\ge 0.38 \text{ mm}$ $\ge 0.65 \text{ mm}$ Nitrile Rubber: > 480 min > 240 min Neoprene:

Eye Protection: Wear safety goggles.

Skin/body protection: Wear protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

- General information	Part A	Part B
Form:	liquid	liquid
Colour:	light yellow to yellow	light yellow
Odour:	specific	odourless
- Change of state		
Melting point / melting range	not determined	not determined
Boiling point / boiling range	> 100° C	> 100° C
- Flash point	not applicable	not applicable
- Auto-flammability	no ~	no ~
- Explosion hazard	no ~	no ~
- Vapour pressure at 20° C	not specified	not specified
- Density at 20° C	1.183 g/cm ³	1.045 g/cm ³
- Solubility in / miscibility with water	complete	complete
-pH-value at 20° C	9.75	11.48
- Solvent content		
Organic solvent:	0.0 %	0,0 %
Water:	77.56 %	92.34 %
VOC (EC):	0.0 %	0,0 %
- Solids content:	22.44 %	7.66 %

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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

Part A:

- Acute toxicity

- Classification relevant LD/LC50 values:		
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/m³(rat)
584-08-7	Potassium	carbonate
Oral:	LD50	> 2000 mg/kg (rat)
10101-89	0 Trisodi	um phosphate dodecahydrate
Oral:	LD50	>2000 mg/kg (rat)
Dermal	Dermal LD50 > 2000 mg/kg (rat)	
92-43-3 1	-Phenyl-3	-pyrazolidinone
Oral:	Oral: LD50 200 mg/kg (rat)	
55-55-0 4-Methylaminophenol sulfate		
Oral:	LD50	237 mg/kg (rat)
Dermal:	LD50	> 1000mg/kg (rat)
123-31-9 Hydroquinone		
Oral: LD50 320 mg/kg (rat)		
21799-87-1 Hydroquinone sulfonic acid (potassium salt)		
Oral:	LD50	> 10000 mg/kg (rat)
Dermal:	LD50	> 5000mg/kg (rabbit)

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

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Part B:

- Acute toxicity

110000 00111010			
- Classification relevant LD/LC50 values:			
333-20-0	333-20-0 Potassium Thiocyanate		
Oral:	LD50 854 mg/kg (rat)		
1310-73-2 Sodium Hydroxide			
Oral:	Oral: LD50 2000 mg/kg (rat)		
584-08-7 Potassium carbonate			
Oral:	LD50	> 2000 mg/kg (rat)	
10101-89-0 Trisodium phosphate dodecahydrate			
Oral:	LD50	>2000 mg/kg (rat)	
Dermal LD50 >2		> 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/m³(rat)	
		00	

- Primary irritant effect:
- Skin: Irritant effect.
- Eye: Irritant effect.
- Sensitisation: No sensitising effects known.

12. Ecological information

Part A:

- Ecotoxicity

- Aquatic toxicity		
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 / Pimephales promelas)	
LC50	35 mg/l (fish ide / Leuciscus idus auratus Bade)	
LC50	96h: 32 ppm (fish rainbow trout / Onchorhynchus mykiss)	
92-43-3 1-Phenyl-3-pyrazolidinone		
LC50	96h: 5 mg/l (Pimepales promelas, fish)	
55-55-(4-Methylaminophenol sulfate	
EC50	72h: 10 mg/l (algae)	
EC50	48h: 0.02 mg/l (Invertebrates)	
LC50	96h: 0.25 mg/l (fathead minnow)	
123-31-9 Hydroquinone		
EC50	48h: 0.29 mg/l (daphnia magna)	
LC50	96h: 0.044 mg/l (Pimepales promelas)	
10101-89-0 Trisodium phosphate dodecahydrate		
EC50	3h: > 1000 mg/l (micro organisms)	
EC50	48h: > 100 mg/l (Invertebrates)	
LC50	96h: $> 100 \text{ mg/l (fish)}$	
	1 77 01 01	

- Remark: Harmful 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. Harmful to aquatic organisms.

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Part B:

- Aquatic toxicity		
1310-73-2 Sodium Hydroxide		
EC50	48h: 40.4 mg/l (crustacea)	
LC50	96h: 196 mg/l (fish)	
333-20-0 Potassium Thiocyanate		
EC50	48h: 11 mg/l (Daphnia magna)	
LC50	96h: 100 mg/l (Onchorhynchus mykiss)	
10101-89-0 Trisodium phosphate dodecahydrate		
EC50	3h: > 1000 mg/l (micro organisms)	
EC50	48h: > 100 mg/l (Invertebrates)	
LC50	96h: > 100 mg/l (fish)	

- Remark: Harmful 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. Harmful 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		
	0101 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

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15. Regulatory information

Designation according to EC guidelines:

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

Both parts:

- Hazard pictograms



- Signal word: Warning
- Hazard statements

H 302 Harmful if swallowed

H 315 Causes skin irritation

H 317 May cause an allergic skin reaction

H 319 Causes serious eye irritation

H 412 Harmful to aquatic life with long lasting effects

- Precautionary statements

P 273 Avoid release to the environment

P 301 + P 312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

P 302 + P 352 IF ON SKIN: Wash with plenty of soap and water

P 305 + P 351 + P 338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P 337 + P 313 If eye irritation persists: Get medical advice/attention

Special designation of certain preparations: Part A: Contains Hydroquinone < 0,3 %

Part B: Contains Natriumhydroxid < 1%

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 (Both parts)

Technical Instructions on Air Quality:

Part A: Part B

Class	Percentage (%)	Class	Percentage (%)
Water	77.56	Water	92.34
I	0,3	I	0,00

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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 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 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
H 412	Harmful to aquatic life with long lasting effects

- Responsible for data sheet: management of manufacturer
- Person of contact: Dipl.-Ing. Heribert Schain
- Abbreviations and Acronyms

ADR: Accord europeen sur le transport des merchandises Dangereuses par Route (European

Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Reglement internationale concernent le transport des merchandises 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