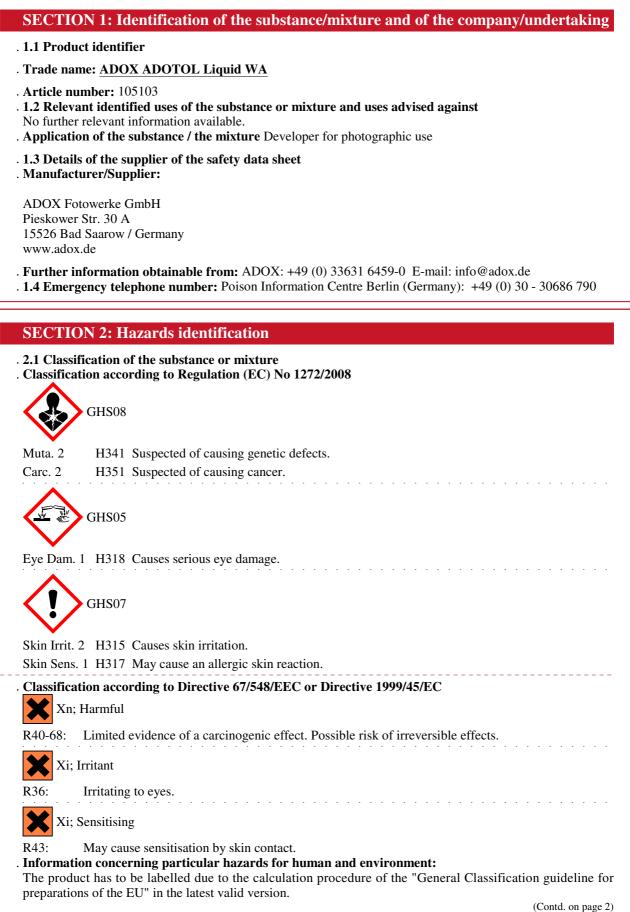
Printing date 19.06.2014

version no: 1

Revision: 19.06.2014



Printing date 19.06.2014

version no: 1

Revision: 19.06.2014

#### Trade name: ADOX ADOTOL Liquid WA

	(Contd. of page
Classification s	
data.	on is according to the latest editions of the EU-lists, and extended by company and literation
2.2 Label elem	ents
Labelling acco	rding to Regulation (EC) No 1272/2008
	classified and labelled according to the CLP regulation.
Hazard pictog	rams
L.W.	
GHS05 G	HS07 GHS08
с: I ID	
Signal word Da	anger
Hazard-determ	nining components of labelling:
	ylene diaminetetraacetate
hydroquinone (	1,4-dihydroxybenzene)
Hazard statem	
H315 Causes sk	
H318 Causes se	erious eye damage.
	e an allergic skin reaction.
H341 Suspected	d of causing genetic defects.
H351 Suspected	d of causing cancer.
Precautionary	
P264	Wash thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P3	38 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses
	present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.
P332+P313	If skin irritation occurs: Get medical advice/attention.
1002.1010	
P501	Dispose of contents/container in accordance with local regulations.
P501 2.3 Other haza	

. **PBT:** Not applicable.

. **vPvB:** Not applicable.

# **SECTION 3: Composition/information on ingredients**

## . 3.2 Chemical characterization: Mixtures

. **Description:** Mixture of substances listed below and with nonhazardous additions.

CAS: 584-08-7	potassium carbonate	10-<25%
EINECS: 209-529-3	🗙 Xi R36/38	
Reg.nr.: 01-2119532646-36	(1) Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
CAS: 64-02-8	tetrasodium ethylene diaminetetraacetate	3-5%
EINECS: 200-573-9	🗙 Xn R22; 🗙 Xi R41	
Index number: 607-428-00-2	Eye Dam. 1, H318; (1) Acute Tox. 4, H302	
CAS: 123-31-9	hydroquinone (1,4-dihydroxybenzene)	1-<2.5%
EINECS: 204-617-8	🗙 Xn R22-40-68; 🗙 Xi R41; 🗙 Xi R43; 🍢 N R50	
Index number: 604-005-00-4	Carc. Cat. 3, Muta. Cat. 3	
Reg.nr.: 01-2119524016-51	<ul> <li>Muta. 2, H341; Carc. 2, H351;  Eye Dam. 1, H318;</li> <li>Aquatic Acute 1, H400;  Acute Tox. 4, H302; Skin Sens. 1, H317</li> </ul>	

Printing date 19.06.2014

version no: 1

Revision: 19.06.2014

Trade name: ADOX ADOTOL Liquid WA

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

### (Contd. of page 2)

## **SECTION 4: First aid measures**

- . 4.1 Description of first aid measures
- . General information: Immediately remove any clothing/shoes soiled by the product.
- . After inhalation: Supply fresh air; consult doctor in case of complaints.
- . After skin contact: Immediately wash with water and soap and rinse thoroughly.
- . After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- . After swallowing: Rinse out mouth and then drink plenty of water.
- . 4.2 Most important symptoms and effects, both acute and delayed
- No further relevant information available.
- . 4.3 Indication of any immediate medical attention and special treatment needed  $\label{eq:action}$
- No further relevant information available.

## **SECTION 5: Firefighting measures**

- . 5.1 Extinguishing media
- . Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- . 5.2 Special hazards arising from the substance or mixture
- Under certain fire conditions, traces of other toxic gases cannot be excluded.
- . 5.3 Advice for firefighters
- . Protective equipment: Do not inhale explosion gases or combustion gases.

## **SECTION 6: Accidental release measures**

. 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Wear protective clothing.

- . 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- . 6.3 Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

- Ensure adequate ventilation.
- 6.4 Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

# **SECTION 7: Handling and storage**

#### . 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

- Prevent formation of aerosols.
- . Information about fire and explosion protection: Protect from heat.

#### . 7.2 Conditions for safe storage, including any incompatibilities

- . Storage:
- . Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
- . Information about storage in one common storage facility:
- Store away from foodstuffs.
- Store away from oxidizing agents.

(Contd. on page 4)

Printing date 19.06.2014

version no: 1

Revision: 19.06.2014

#### **Trade name: ADOX ADOTOL Liquid WA**

# . Further information about storage conditions:

Keep container tightly sealed. Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight.

Store under lock and key and out of the reach of children.

Recommended storage temperature: 5-25 °C

Protect from exposure to the light.

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

## **SECTION 8: Exposure controls/personal protection**

. Additional information about design of technical facilities: No further data; see item 7.

. 8.1 Control parameters

. Ingredients with limit values that require monitoring at the workplace:

#### 123-31-9 hydroquinone (1,4-dihydroxybenzene) (1- <3%)

WEL Long-term value: 0.5 mg/m<sup>3</sup>

. Additional information: The lists valid during the making were used as basis.

- . 8.2 Exposure controls
- . Personal protective equipment:
- . General protective and hygienic measures:
- The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

- . Respiratory protection: Ensure adequate ventilation
- . Protection of hands:



Protective gloves

Impervious gloves

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

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

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Butyl rubber, BR

Nitrile rubber, NBR

Neoprene gloves

#### . Penetration time of glove material G

Gove material	breakthroug-time	layer thickness
Butyl rubber:	>480 min	≥0,4mm
Nitrile rubber:	>480 min	≥0,38mm
Neoprene:	>240 min	≥0,65mm

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 5)

(Contd. of page 3)

Printing date 19.06.2014

version no: 1

Revision: 19.06.2014

(Contd. of page 4)

## Trade name: ADOX ADOTOL Liquid WA

. Eye protection:



Tightly sealed goggles

. Body protection: Protective work clothing

9.1 Information on basic physical a General Information	nd chemical properties	
Appearance:		
Form:	Fluid	
Colour:	Colourless	
Odour:	Pungent	
Odour threshold:	Not determined.	
pH-value:	Alkaline	
Change in condition		
Melting point/Melting range:	Undetermined.	
<b>Boiling point/Boiling range:</b>	>100 °C	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:		
Decomposition temperature:	Not determined.	
Self-igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapour pressure at 20 °C:	23 hPa	
Density at 20 °C:	1.375 g/cm <sup>3</sup>	
Relative density	Not determined.	
Vapour density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
water:	Fully miscible.	
Partition coefficient (n-octanol/wat	er): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	0.0~%	
Water:	>60 %	
9.2 Other information	No further relevant information available.	

(Contd. on page 6)

Printing date 19.06.2014

version no: 1

Revision: 19.06.2014

#### Trade name: ADOX ADOTOL Liquid WA

(Contd. of page 5)

#### **SECTION 10: Stability and reactivity**

. 10.1 Reactivity

- . 10.2 Chemical stability
- . Thermal decomposition / conditions to be avoided: Stable at environment temperature.
- . 10.3 Possibility of hazardous reactions Reacts with acids, alkalis and oxidizing agents.
- . 10.4 Conditions to avoid No further relevant information available.
- . 10.5 Incompatible materials: Under certain fire conditions, traces of other toxic gases cannot be excluded.
- . 10.6 Hazardous decomposition products: Irritant gases/vapours

#### **SECTION 11: Toxicological information**

- . 11.1 Information on toxicological effects
- . Acute toxicity:
- . LD/LC50 values relevant for classification:

#### 123-31-9 hydroquinone (1,4-dihydroxybenzene)

Oral LD50 320 mg/kg (rat)

- . Primary irritant effect:
- . on the skin: Irritant to skin and mucous membranes.
- . on the eye: Strong irritant with the danger of severe eye injury.
- . Sensitization: Sensitization possible through skin contact.
- . Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

. CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Muta. 2, Carc. 2

## **SECTION 12: Ecological information**

#### . 12.1 Toxicity

. Aquatic toxicity:

#### 123-31-9 hydroquinone (1,4-dihydroxybenzene)

- EC50 48h: 0.29 mg/l (daphnia magna (Großer Wasserfloh))
- LC50 96h: 0.044 mg/l (Pimephales promelas)
- . 12.2 Persistence and degradability No further relevant information available.
- . **12.3 Bioaccumulative potential** No further relevant information available.
- . 12.4 Mobility in soil No further relevant information available.
- Additional ecological information:

. General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

- . 12.5 Results of PBT and vPvB assessment
- . **PBT:** Not applicable.
- . **vPvB:** Not applicable.
- . 12.6 Other adverse effects No further relevant information available.

#### **SECTION 13: Disposal considerations**

## . 13.1 Waste treatment methods

. Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

(Contd. on page 7)

Printing date 19.06.2014

version no: 1

Revision: 19.06.2014

(Contd. of page 6)

#### Trade name: ADOX ADOTOL Liquid WA

#### . European waste catalogue

09 01 01\* water-based developer and activator solutions

#### . Uncleaned packaging:

. **Recommendation:** Disposal must be made according to official regulations.

## **SECTION 14: Transport information**

$\Xi$	
. 14.1 UN-Number . ADR, ADN, IMDG, IATA	Void
. 14.2 UN proper shipping name . ADR, ADN, IMDG, IATA	Void
. 14.3 Transport hazard class(es)	
. ADR, ADN, IMDG, IATA	
. Class	Void
. 14.4 Packing group . ADR, IMDG, IATA	Void
. 14.5 Environmental hazards:	
. Marine pollutant:	No
. 14.6 Special precautions for user	Not applicable.
. 14.7 Transport in bulk according to Annex II MARPOL73/78 and the IBC Code	of Not applicable.
. UN "Model Regulation":	-

## **SECTION 15: Regulatory information**

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

- . Labelling according to Regulation (EC) No 1272/2008 GHS label elements
- . 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

## . Relevant phrases

- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H341 Suspected of causing genetic defects.
- H351 Suspected of causing cancer.
- H400 Very toxic to aquatic life.

#### R22 Harmful if swallowed.

#### R36/38 Irritating to eyes and skin.

- R40 Limited evidence of a carcinogenic effect.
- R41 Risk of serious damage to eyes.
- R43 May cause sensitisation by skin contact.
- R50 Very toxic to aquatic organisms.

(Contd. on page 8)

Printing date 19.06.2014

version no: 1

Revision: 19.06.2014

# Trade name: ADOX ADOTOL Liquid WA

(Contd. of page 7)
R68 Possible risk of irreversible effects.
. Abbreviations and acronyms:
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the
International Transport of Dangerous Goods by Rail)
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)
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 Harmonized 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
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
Muta. 2: Germ cell mutagenicity, Hazard Category 2
Carc. 2: Carcinogenicity, Hazard Category 2
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1
-EN