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Safety data sheet according to 1907/2006/EC, Article 31

Printing date 06.02.2018 Version 5 Revision: 06.02.2018

SECTION 1: Identification of the substance/mixture and of the company/undertaking

· 1.1 Product identifier

· Trade name: AUTOMAT SET HS radioMAT-XR Developer

· Article number: 900-2685

• 1.2 Relevant identified uses of the substance or mixture and uses advised against
To this day we do not have any information about the identified use at the moment. These data are
available we will add these to the safety data sheet.

· Application of the substance / the mixture

Photochemicals

Developer for X-ray films

Reserved for industrial and professional use.

· 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Manufacturer: Henry Schein Inc. 135 Duryea Road Melville, NY 11747 USA

Authorized EU Representative: Henry Schein Services GmbH Monzastrasse 2a 63225 Langen / Germany

· Informing department:

Contact:

cbdeurope@henryschein.com www.henryscheinbrand.com Tel: +49 6103 757 5000

Responsible Person for the Safety Data Sheet: Global Sourcing International - Regulatory Compliance cbdeurope@henryschein.com

· 1.4 Emergency telephone number:

INTERNATIONAL: +49 - (0) 6132 - 84463 GBK GmbH (24h - 7d/w - 365d/a)

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



GHS08

Muta. 2 H341 Suspected of causing genetic defects.

Carc. 2 H351 Suspected of causing cancer.



Eye Dam. 1 H318 Causes serious eye damage.

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Trade name: AUTOMAT SET HS radioMAT-XR Developer

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Aquatic Acute 1 H400 Very toxic to aquatic life.



Skin Sens. 1 H317 May cause an allergic skin reaction.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms









GHS05 GHS07 GHS08 GHS09

- · Signal word Danger
- · Hazard-determining components of labelling:

hydroquinone

Hazard statements

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H341 Suspected of causing genetic defects.

H351 Suspected of causing cancer.

H400 Very toxic to aquatic life.

· Precautionary statements

P273 Avoid release to the environment.
P280 Wear protective gloves / eye protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

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

international regulations.

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- PBT: Not applicable.vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.2 Mixtures
- **Description:** Mixture of the substances listed below with harmless additions.

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Trade name: AUTOMAT SET HS radioMAT-XR Developer

CAS: 123-31-9	hydroquinone	≥5-<10%
EINECS: 204-617-8		=5 <10 /8
Index number: 604-005-00-4	Acute Tox. 3, H311 Muta. 2, H341; Carc. 2, H351	
Reg.nr.: 01-2119524016-51-xxxx		
11eg.iii 01-2119324010-31-xxxx	Aquatic Acute 1, H400 (M=10)	
	1 Acute Tox. 4, H302; Skin Sens. 1, H317	
OAC: 111 4C C	<u> </u>	0.50/
CAS: 111-46-6 EINECS: 203-872-2	2,2'-oxybisethanol	2-5%
Index number: 603-140-00-6	Acute Tox. 4, H302	
Reg.nr.: 01-2119457857-21-xxxx		
		0.50/
CAS: 584-08-7 EINECS: 209-529-3	potassium carbonate	2-5%
	Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
Reg.nr.: 01-2119532646-36-xxxx		
CAS: 10043-35-3	boric acid	2-5%
EINECS: 233-139-2		
Index number: 005-007-00-2		
Reg.nr.: 01-2119486683-25-xxxx		
CAS: 139-89-9	Hydroxyethylethylenediaminetriacetic acid, trisodium	0.5-2%
EINECS: 205-381-9	salt, solution	
	Skin Irrit. 2, H315; Eye Irrit. 2, H319	
CAS: 13047-13-7	4-(hydroxymethyl)-4-methyl-1-phenylpyrazolidin-3-	≥0.5-<1%
EINECS: 235-920-3	one	
	Aquatic Chronic 2, H411	
	Acute Tox. 4, H302; Skin Sens. 1, H317	

· Additional information For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

General information

Personal protection for the First Aider.

Instantly remove any clothing soiled by the product.

· After inhalation Supply fresh air.

· After skin contact

Instantly wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· After eye contact

Rinse opened eye for several minutes under running water (at least 15 minutes).

Remove contact lenses, if present and easy to do.

Use eye protection.

Call a doctor immediately.

· After swallowing Rinse out mouth and then drink plenty of water.

· 4.2 Most important symptoms and effects, both acute and delayed

No known symptoms to date.

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Trade name: AUTOMAT SET HS radioMAT-XR Developer

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• 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents

CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam. Use fire fighting measures that suit the environment.

- · For safety reasons unsuitable extinguishing agents Water with a full water jet.
- 5.2 Special hazards arising from the substance or mixture

Can be released in case of fire

Carbon monoxide

sulphur dioxide (SO2)

- 5.3 Advice for firefighters
- · Protective equipment:

Do not inhale explosion gases or combustion gases.

At formation of toxic gases:

Put on breathing apparatus.

· Additional information The product is not flammable

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective clothing.
- 6.2 Environmental precautions: Do not allow to enter drainage system, 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 of contaminated material as waste according to item 13.

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

· 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 information on disposal.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

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

- · Information about protection against explosions and fires: The product is not flammable
- · 7.2 Conditions for safe storage, including any incompatibilities
- Storage
- · 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.

Do not store together with acids.

Store away from oxidising agents.

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· Further information about storage conditions:

Keep container tightly sealed.

Store in a cool place.

- Recommended storage temperature: 5-25 ℃
- · Storage class

LGK 12

(German Technical Rule for Hazardous Substance – TRGS 510)

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

SECTION 8: Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see section 7.
- · 8.1 Control parameters

· Co	mponents with limit values that require monitoring at the workplace:
12	3-31-9 hydroquinone
WE	EL Long-term value: 0.5 mg/m³
44.	1.46.6.2.2' avvisiosthanal

111-46-6 2,2'-oxybisethanol

WEL Long-term value: 101 mg/m³, 23 ppm

- · Additional information: The lists that were valid during the compilation were used as basis.
- · 8.2 Exposure controls
- · 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.

- · 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

Material of gloves

Thickness Breakthrough time

 (mm)
 (min)

 Nitril rubber
 0,38
 > 480

 Neoprene
 0,65
 > 240

 Butyl rubber
 0,36
 > 480

Avoid natural rubber gloves.

· As protection from splashes gloves made of the following materials are suitable:

Synthetic gloves

Value for permeation: Level:

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 \geq 3 (60 min)

· Eye protection: Safety glasses

· Body protection: Protective work clothing.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Fluid Colourless Clear

Odour: Not characteristicOdour threshold: Not determined.

• **pH-value at 25 °C:** 10.3

· Change in condition

Melting point/freezing point: Not determined Initial boiling point and boiling range: > 100 ℃

Flash point: Not applicableDecomposition temperature: Not determined.

· Self-inflammability: Product is not selfigniting.

• Explosive properties: Product is not explosive.

· Critical values for explosion:

Lower: Not determined.

Upper: Not determined.

· Vapour pressure at 20 °C: 23 hPa

Density at 20 °C
 Relative density
 Vapour density
 Evaporation rate
 1.275 g/cm³
 Not determined.
 Not determined.

· Solubility in / Miscibility with

Water: miscible

· Partition coefficient: n-octanol/water: Not determined.

· Viscosity:

dynamic:Not determinedkinematic:Not determined

• **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

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- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · 10.3 Possibility of hazardous reactions Reacts with strong acids and oxidizing agents
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values that are relevant for classification:					
123-31-	123-31-9 hydroquinone				
Oral	al LD50 320 mg/kg (rat)				
Dermal	LD50	>900 mg/kg (rat)			
111-46-	111-46-6 2,2'-oxybisethanol				
Oral	Oral LD50 12565 mg/kg (rat)				
Dermal	LD50	11890 mg/kg (rabbit)			
584-08-	584-08-7 potassium carbonate				
Oral	Oral LD50 > 2000 mg/kg (rat)				
10043-3	10043-35-3 boric acid				
Oral	Oral LD50 2660 mg/kg (rat)				

- · Primary irritant effect:
- · Skin corrosion/irritation
- $\cdot \ Serious \ eye \ damage/irritation$

Causes serious eye damage.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

· Additional toxicological information:

At present there are no animal experimental data.

This statement was deduced from the properties of the single components.

- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- Germ cell mutagenicity

Suspected of causing genetic defects.

· Carcinogenicity

Suspected of causing cancer.

- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

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SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:					
123-31-9 hydroquinone					
EC50/48 h	EC50/48 h 0.29 mg/l (Daphnia magna)				
IC50/72 h	IC50/72 h 0.335 mg/l (Selenastrum capricornutum)				
LC50/96 h	LC50/96 h 0.044 mg/l (Pimephales promelas)				
111-46-6 2,2'-oxybisethanol					
EC50/48 h	EC50/48 h > 10000 mg/l (Daphnia magna)				
LC50/96 h	LC50/96 h 75200 mg/l (Pimephales promelas)				
•	otassium carbonate				
EC50/48 h	EC50/48 h 380-820 mg/l (Daphnia magna)				
LC50/96 h 310-750 mg/l (Pimephales promelas)					
10043-35-3	10043-35-3 boric acid				
EC50/48 h	133 mg/l (Daphnia magna)				
LC50/96 h	LC50/96 h 50 - 100 mg/l (Onchrohynchus mykiss)				

- · 12.2 Persistence and degradability Not determined
- · 12.3 Bioaccumulative potential Not determined
- · Behaviour in environmental systems: Not determined
- 12.4 Mobility in soil No further relevant information available.
- · Ecotoxical effects: No further relevant information available.
- · Behaviour in sewage processing plants: Not determined
- · Additional ecological information:
- · General notes:

Water hazard class 3 (German Regulation) (Self-assessment): highly water-endangering. At present there are no ecotoxicological assessments.

This statement was deduced from the properties of the single components.

- · 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 of together with household garbage. Do not allow product to reach sewage system.

Must be specially treated under adherence to official regulations.

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

· European waste catalogue

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

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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.

Packagings that cannot be cleaned are to be disposed of in the same manner as the product. EAK-No. 15 01 10

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

· 14.1 UN-Number · ADR/RID, IMDG, IATA	UN 3082
· 14.2 UN proper shipping name · ADR/RID, IMDG, IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (hydroquinone)
· 14.3 Transport hazard class(es)	
· ADR/RID, IMDG, IATA	
1 1 1 1 1 1 1 1 1 1	
Class	9 Miscellaneous dangerous substances and articles.
· Label	9
· 14.4 Packing group · ADR/RID, IMDG, IATA	III
· 14.5 Environmental hazards: · Marine pollutant:	Yes
· Special marking (ADR/RID):	Symbol (fish and tree) Symbol (fish and tree)
· Special marking (IATA):	Symbol (fish and tree)
· 14.6 Special precautions for user	Warning: Miscellaneous dangerous substances ar articles.
· Kemler Number:	90
· 14.7 Transport in bulk according to An	nex II Not applicable.



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These substances when transported in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass of 5 kg or less for solids, are not subject to any other provisions of these Regulations provided the packagings meet the general. See the following notes.	
Goods are not subject to the provisions in accordance with the special provision 375 ADR.	
Goods are not subject to the provisions in accordance with 2.10.2.7 IMDG-Code.	
Goods are not subject to the provisions in accordance with the special provision A197 IATA-DGR.	
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (HYDROQUINONE), 9, III	

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category E1 Hazardous to the Aquatic Environment
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- · National regulations
- · Information about limitation of use:

Employment restrictions concerning pregnant and lactating women must be observed.

Class	Share in %
I	6.3
NK	4.4

- · Water hazard class: Water danger class 3 (Self-assessment): highly water-endangering.
- · Other regulations, limitations and prohibitive regulations
- Substances of very high concern (SVHC) according to REACH, Article 57
 10043-35-3 | boric acid
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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SECTION 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 phrases

Harmful if swallowed. H302

H311 Toxic in contact with skin.

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.

H360FD May damage fertility. May damage the unborn child.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

· Recommended restriction of use No public product, only for commercial use

· Classification according to Regulation (EC) No 1272/2008

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

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)

ICAO: International Civil Aviation Organisation

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

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 3: Acute toxicity – Category 3
Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation - Category 1

Eye Irrit. 2: Serious eye damage/eye irritation - Category 2

Skin Sens. 1: Skin sensitisation - Category 1

Muta. 2: Germ cell mutagenicity - Category 2

Carc. 2: Carcinogenicity - Category 2

Repr. 1B: Reproductive toxicity - Category 1B

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

Sources

applicable EEC directives:

- 1907/2006
- 1272/2008

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Internal physical tests, MSDS of the ingredients, Information system on hazardous substances of the German Social Accident Insurance (GESTIS-database on hazardous substances), http://www.dguv.de/ifa/en/gestis/stoffdb/index.jsp

·* Data compared to the previous version altered.

GB ·



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SECTION 1: Identification of the substance/mixture and of the company/undertaking

· 1.1 Product identifier

· Trade name: AUTOMAT SET HS radioMAT-XR Fixer

· Article number: 900-2685

• 1.2 Relevant identified uses of the substance or mixture and uses advised against
To this day we do not have any information about the identified use at the moment. These data are
available we will add these to the safety data sheet.

· Application of the substance / the mixture

Photochemicals

Fixing agent for X-ray films

Reserved for industrial and professional use.

· 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

Manufacturer: Henry Schein Inc. 135 Duryea Road Melville, NY 11747 USA

Authorized EU Representative: Henry Schein Services GmbH Monzastrasse 2a 63225 Langen / Germany

· Informing department:

Contact:

cbdeurope@henryschein.com www.henryscheinbrand.com

Tel: +49 6103 757 5000

Responsible Person for the Safety Data Sheet: Global Sourcing International - Regulatory Compliance cbdeurope@henryschein.com

· 1.4 Emergency telephone number:

INTERNATIONAL: +49 - (0) 6132 - 84463

GBK GmbH (24h - 7d/w - 365d/a)

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



Eye Irrit. 2 H319 Causes serious eye irritation.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

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· Hazard pictograms



· Signal word Warning

· Hazard statements

H319 Causes serious eye irritation.

· Precautionary statements

P280 Wear eye protection / face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

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

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

international regulations.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

PBT: Not applicable.vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.2 Mixtures
- **Description:** Mixture of the substances listed below with harmless additions.

· Dangerous components:		
CAS: 10043-01-3	aluminium sulphate	♠ Eve Dam 1

EINECS: 233-135-0

Reg.nr.: 01-2119531538-36-xxxx

• Additional information For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · General information Instantly remove any clothing soiled by the product.
- · After inhalation Supply fresh air.
- · After skin contact The product is not skin irritating.
- · After eye contact

Rinse opened eye for several minutes under running water (at least 15 minutes).

Remove contact lenses, if present and easy to do.

Use eye protection.

Call a doctor immediately.

· After swallowing

Rinse out mouth and then drink plenty of water.

In case of persistent symptoms consult doctor.

· 4.2 Most important symptoms and effects, both acute and delayed

No known symptoms to date.

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≥2-<3%



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• 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents

CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam. Use fire fighting measures that suit the environment.

- · For safety reasons unsuitable extinguishing agents Water with a full water jet.
- 5.2 Special hazards arising from the substance or mixture

Can be released in case of fire

sulphur dioxide (SO2) Nitrogen oxides (NOx)

· 5.3 Advice for firefighters

· Protective equipment:

No special measures required.

Do not inhale explosion gases or combustion gases.

· Additional information The product is not flammable

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- **6.2 Environmental precautions:** Do not allow to enter drainage system, 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 of contaminated material as waste according to item 13.

6.4 Reference to other sections

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling No special precautions necessary if used correctly.
- · Information about protection against explosions and fires:

No special measures required.

The product is not flammable

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage
- Requirements to be met by storerooms and containers: No special requirements.
- Information about storage in one common storage facility:

Do not store together with acids.

Do not store together with alkalis (caustic solutions).

Not required.

Further information about storage conditions:

Store in a cool place.

None.

· Recommended storage temperature: 5-25 °C

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- Storage class LGK 12
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see section 7.
- · 8.1 Control parameters
- · Components with limit values that require monitoring at the workplace:

10043-01-3 aluminium sulphate

WEL Long-term value: 2 mg/m³

- · Additional information: The lists that were valid during the compilation were used as basis.
- · 8.2 Exposure controls
- 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 contaminated clothing before reuse.

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

Avoid contact with the eyes and skin.

· 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

Material of gloves

Synthetic gloves

Avoid natural rubber gloves.

· Penetration time of glove material

Value for permeation: Level \leq 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:

 \geq 3 (60 min)

· Eye protection: Safety glasses

· Body protection: Light weight protective clothing

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SECTION 9: Physical and chemical properties			
9.1 Information on basic physical and chemical properties			
General Information			
Appearance:			
Form:	Fluid		
Colour:	Colourless		
Odour:	Not characteristic		
pH-value at 25 ℃:	5.1		
· Change in condition			
Melting point/freezing point:	< 5 ℃		
Initial boiling point and boiling range: > 100 ℃			
Flash point:	Not applicable		
Self-inflammability:	Product is not selfigniting.		
Explosive properties:	Product is not explosive.		
Vapour pressure at 20 ℃:	23 hPa		
Density at 20 °C	1.31 g/cm ³		
Solubility in / Miscibility with			
Water:	miscible		
Viscosity:			
dynamic:	Not determined		
kinematic:	Not determined		
9.2 Other information	No further relevant information available.		

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions

Reacts with strong acids and alkali

Reacts with acids releasing sulphur dioxide

Reacts with alkalis releasing ammonia

- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.

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· LD/LC50	values tha	t are relevant for classification:	
10043-01-	3 alumini	um sulphate	
Oral	LD50	> 5000 mg/kg (rat)	
64-19-7 a	64-19-7 acetic acid		
Oral	LD50	3310 mg/kg (rat)	
Dermal	LD50	1060 mg/kg (rabbit)	
7783-18-8	7783-18-8 ammonium thiosulphate		
Oral	LD50	1098 mg/kg (gpg)	
		2890 mg/kg (rat)	
7757-83-7	7757-83-7 sodium sulphite		
Oral	LD50	2610 mg/kg (rat)	
Inhalative	LC50/4 h	> 5.5 mg/l (rat)	

- · Primary irritant effect:
- Skin corrosion/irritation
- $\cdot \ Serious \ eye \ damage/irritation$

Causes serious eye irritation.

- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Subacute to chronic toxicity: No known symptoms to date.
- · Additional toxicological information:

This statement was deduced from the properties of the single components.

- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity:

Not determined

10043-01-3 aluminium sulphate			
LC50/48 h	LC50/48 h 38.2 mg/l (Daphnia magna)		
LC50/96 h	2.98 mg/l (fish)		
64-19-7 acetic aci	64-19-7 acetic acid		
LC50/96 h 75 mg/l (Lepomis macrochirus)			
7757-83-7 sodium	7757-83-7 sodium sulphite		
EC50/48 h (static)	EC50/48 h (static) 59 mg/l (Daphnia magna)		
LC50/96 h (static)	316 mg/l (fish)		

- 12.2 Persistence and degradability Not determined
- · 12.3 Bioaccumulative potential Not determined
- · Behaviour in environmental systems: Not determined

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- 12.4 Mobility in soil No further relevant information available.
- · Ecotoxical effects: Not determined
- · Behaviour in sewage processing plants: Not determined
- · Additional ecological information:
- · General notes:

At present there are no ecotoxicological assessments.

This statement was deduced from the properties of the single components.

Water hazard class 1 (German Regulation) (Self-assessment): Weakly water-endangering. According to the criteria of the EU-classification and labelling "dangerous for environment" (1999/45/EG) the substance/ the product has to be classified as non-hazardous for the environment.

- 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 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 04* fixer solutions

- · Uncleaned packagings:
- Recommendation:

Non contaminated packagings can be used for recycling.

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

Packagings that cannot be cleaned are to be disposed of in the same manner as the product. EAK-No. 15 01 10

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

SECTION 14: Transport information			
· 14.1 UN-Number · ADR/RID, ADN, IMDG, IATA	Void		
· 14.2 UN proper shipping name · ADR/RID · ADN, IMDG, IATA	Void Void		
· 14.3 Transport hazard class(es)			
· ADR/RID, ADN, IMDG, IATA · Class	Void		

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· 14.4 Packing group · ADR/RID, 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 of Marpol and the IBC Code Not applicable. 	
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	Void

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 65
- National regulations
- · Water hazard class: Water hazard class 1 (Self-assessment): weakly water-endangering.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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 phrases

H318 Causes serious eye damage.

- · Recommended restriction of use No public product, only for commercial use
- · Classification according to Regulation (EC) No 1272/2008

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

· 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)

ICAO: International Civil Aviation Organisation

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

PBT: Persistent, Bioaccumulative and Toxic

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vPvB: very Persistent and very Bioaccumulative Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

· Sources

applicable EEC directives:

- 1907/2006
- 1272/2008

Internal physical tests, MSDS of the ingredients, Information system on hazardous substances of the German Social Accident Insurance (GESTIS-database on hazardous substances), http://www.dguv.de/ifa/en/gestis/stoffdb/index.jsp

·* Data compared to the previous version altered.

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