

Printing date 04.03.2015

Version 2

Revision: 20.01.2015

SECTION 1: Identification of the substance/mixture and of the company/undertaking
· 1.1 Product identifier
· Trade name: <u>C-41 KIT CD-A</u>
· Article number: 13025, 13026, 13027
 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 Photographic activities Consumer use Photochemicals Photographic developer Colour film photographic processing solution
 1.3 Details of the supplier of the safety data sheet 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 42515 E-Mail: kr@calbe-chemie.de 1.4 Emergency telephone number: Tel.: 0700-24112112 (CAL)
SECTION 2: Hazards identification
 · 2.1 Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008
GHS05 corrosion
Eye Dam. 1 H318 Causes serious eye damage. GHS07
Skin Irrit. 2 H315 Causes skin irritation. STOT SE 3 H335 May cause respiratory irritation.
STOT SE 3 H335 May cause respiratory irritation. Classification according to Directive 67/548/EEC or Directive 1999/45/EC
 STOT SE 3 H335 May cause respiratory irritation. Classification according to Directive 67/548/EEC or Directive 1999/45/EC Xi; Irritant R36/37/38: Irritating to eyes, respiratory system and skin. Information concerning particular hazards for human 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.



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(Contd. of page 1) · 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 · Signal word Danger · Hazard-determining components of labelling: 1-hydroxy-1,1-diphosphon acid potassium carbonate · Hazard statements H315 Causes skin irritation. H318 Causes serious eye damage. H335 May cause respiratory irritation. · Precautionary statements P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. 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. Immediately call a POISON CENTER/doctor. P310 P302+P352 IF ON SKIN: Wash with plenty of water. 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: 584-08-7	potassium carbonate	25-50%
EINECS: 209-529-3	🗙 Xi R36/37/38	
Reg.nr.: 01-2119532646-36-xxxx	Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
CAS: 139-89-9	Hydroxyethylethylenediaminetriacetic acid, trisodium	2.0-5.0%
EINECS: 205-381-9	salt, solution	
Reg.nr.: 01-2119972845-22-xxxx	🗙 Xi R36/38	
	🚯 Skin Irrit. 2, H315; Eye Irrit. 2, H319	
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CAS: 2809-21-4	1-hydroxy-1,1-diphosphon acid	2.0-5.0%
EINECS: 220-552-8	🛃 Č R34	
Reg.nr.: 01-2119510391-53-xxxx	🗙 Xn R22	
	🗙 Xi R41	
	Met. Corr.1, H290; Skin Corr. 1B, H314	
CAS: 1310-58-3	potassium hydroxide	0.5-2.0%
EINECS: 215-181-3	🛃 C R35	
Index number: 019-002-00-8	🗙 Xn R22	
Reg.nr.: 01-2119487136-33-xxxx	Met. Corr.1, H290; Skin Corr. 1A, H314 Acute Tox. 4, H302	

· Additional information For the wording of the listed risk 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; consult doctor in case of symptoms.

· After skin contact

Instantly rinse with water. 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. Do not induce vomiting; instantly call for medical help.

- 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
- 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)

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Trade name: C-41 KIT CD-A

· 5.3 Advice for firefighters

· Protective equipment:

Do not inhale explosion gases or combustion gases. Use a breathing protection if high concentrations are present.

· Additional information The product is not flammable

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Particular danger of slipping on leaked/spilled product.
- **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 Keep away from heat and direct sunlight.

· 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:
- Keep away from foodstuffs, beverages and food.
- Further information about storage conditions: Keep container tightly sealed. Store in a cool place.
- · Recommended storage temperature: 5-25 °C
- · 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

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

1310-58-3 potassium hydroxide

WEL Short-term value: 2 mg/m³

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

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

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 8.2 Exposure controls Personal protective equipment General protective and hygien The usual precautionary measure Keep away from foodstuffs, beve Do not eat, drink or smoke while Take off immediately all contamin Wash contaminated clothing before Wash hands during breaks and a Avoid contact with the eyes and set 	ic measures es should be adhered to general rules for handling chemicals. erages and food. working. nated clothing. pre reuse. at the end of the work.
· Breathing equipment: Not requ	ired.
EEC and the resultant standard I This recommendation applies on as well as to the purpose specifie Only use chemical-protective glo Selection of the glove material or degradation Material of gloves Thickness (mm) Nitril rubber 0,38 Neoprene 0,65 Butyl rubber 0,36 Avoid natural rubber gloves.	ly to the product stated in the Safety Data Sheet and supplied by us we with CE-labelling of category III. In consideration of the penetration times, rates of diffusion and the Breakthrough time (min) > 480 > 240 > 480 Noves made of the following materials are suitable:
SECTION 9: Physical and ch	nemical properties
 9.1 Information on basic physi General Information Appearance: Form: Colour: 	cal and chemical properties Fluid Colourless Clear
· Odour:	Not characteristic
· pH-value (100 g/l) at 20 °C:	10.8
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	
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· Flash point:	Not applicable	
 Inflammability (solid, gaseous) Not applicable	
· Ignition temperature:	Not applicable	
· Decomposition temperature:	Not applicable	
· Self-inflammability:	Product is not selfigniting.	
· Danger of explosion:	Product is not explosive.	
 Critical values for explosion: Lower: Upper: Oxidising properties 	Not applicable Not applicable Not applicable	
· Vapour pressure at 20 °C:	23 hPa	
· Density at 20 °C	1.34 g/cm ³	
 Solubility in / Miscibility with Water: 	miscible	
 Viscosity: dynamic: kinematic: 	Not determined Not determined	
 Solvent content: Organic solvents: Water: 	0.0 % ~ 60 %	
· 9.2 Other information	None	

SECTION 10: Stability and reactivity

- · 10.1 Reactivity
- 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
- 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:
- · LD/LC50 values that are relevant for classification:

584-08-7 potassium carbonate

Oral LD50 > 2000 mg/kg (rat)

2809-21-4 1-hydroxy-1,1-diphosphon acid

Oral LD50 2400 mg/kg (rat)

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Dermal LD50 3500 mg/kg (rat)

1310-58-3 potassium hydroxide

Oral LD50 365 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.
- · Sensitisation: No sensitizing effect known.
- Other information (about experimental toxicology): Not determined

· Additional toxicological information:

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

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

No known symptoms to date.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

Not determined

584-08-7 potassium carbonate

EC50/48 h 380-820 mg/l (Daphnia magna)

LC50/96 h 310-750 mg/l (Pimephales promelas)

1310-58-3 potassium hydroxide

LC50/96 h 80 mg/l (Gambusia affinis)

- · 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:

- At present there are no ecotoxicological assessments.
- This statement was deduced from the properties of the single components.
- Water hazard class 2 (German Regulation) (Self-assessment): Water-endangering.
- 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

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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 01* water-based developer and activator 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.

14.1 UN-Number	
ADR, ADN, IMDG, IATA	Void
14.2 UN proper shipping name	
ADR	Void
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:	Not applicable.
· 14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Anne	ex II
of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	Not dangerous according to the above
	specifications.
· Transport/Additional information:	

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SECTION 15: Regulatory information

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

· National regulations

- · Water hazard class: Water hazard class 2 (Self-assessment): 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

- H290 May be corrosive to metals.
- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- R22 Harmful if swallowed.
- R34 Causes burns.
- R35 Causes severe burns.
- R36/37/38 Irritating to eyes, respiratory system and skin.
- R36/38 Irritating to eyes and skin.
- R41 Risk of serious damage to eyes.

· Department issuing data specification sheet:

Laboratory

Tel.: +49 (0)39291 425-15

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
- Met. Corr.1: Corrosive to metals, Hazard Category 1
- Acute Tox. 4: Acute toxicity, Hazard Category 4
- Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B
- Skin Corr. 18: Skin corrosion/irritation, Hazard Category 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

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

· Sources

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

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applicable EEC directives:

- 1999/45

- 1907/2006

- 1272/2008

·* Data compared to the previous version altered.



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SECTION 1: Identification of the substance/mixture and of the company/undertaking
· 1.1 Product identifier
· Trade name: <u>C-41 KIT CD-B</u>
· Article number: 13025, 13026, 13027
 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 Photographic activities Photochemicals Photographic developer Colour film photographic processing solution
 1.3 Details of the supplier of the safety data sheet 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 42515 E-Mail: kr@calbe-chemie.de 1.4 Emergency telephone number: Tel.: 0700-24112112 (CAL)
SECTION 2: Hazards identification
SECTION 2: Hazards identification 2.1 Classification of the substance or mixture
SECTION 2: Hazards identification
SECTION 2: Hazards identification • 2.1 Classification of the substance or mixture • Classification according to Regulation (EC) No 1272/2008 GHS08 health hazard
 SECTION 2: Hazards identification 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 GHS08 health hazard Carc. 2 H351 Suspected of causing cancer.
SECTION 2: Hazards identification • 2.1 Classification of the substance or mixture • Classification according to Regulation (EC) No 1272/2008 GHS08 health hazard Carc. 2 H351 Suspected of causing cancer. GHS07
SECTION 2: Hazards identification • 2.1 Classification of the substance or mixture • Classification according to Regulation (EC) No 1272/2008 • GHS08 health hazard Carc. 2 GHS08 health hazard Carc. 2 GHS07 Skin Sens. 1 H317 May cause an allergic skin reaction. • Classification according to Directive 67/548/EEC or Directive 1999/45/EC
SECTION 2: Hazards identification • 2.1 Classification of the substance or mixture • Classification according to Regulation (EC) No 1272/2008 • Classification according to Classing cancer. • Carc. 2 H351 Suspected of causing cancer. • Option: Classification according to cause an allergic skin reaction. • Classification according to Directive 67/548/EEC or Directive 1999/45/EC • Xn; Harmful
SECTION 2: Hazards identification • 2.1 Classification of the substance or mixture • Classification according to Regulation (EC) No 1272/2008 Image: Second Structure Image: Second Structure GHS08 health hazard Carc. 2 H351 Suspected of causing cancer. Image: Second Structure GHS07 Skin Sens. 1 H317 May cause an allergic skin reaction. • Classification according to Directive 67/548/EEC or Directive 1999/45/EC Image: Xn; Harmful R40: Limited evidence of a carcinogenic effect.



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(Contd. of page 1) · 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. · 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 GHS07 GHS08 · Signal word Warning · Hazard-determining components of labelling: bis(hydroxylammonium) sulphate · Hazard statements H317 May cause an allergic skin reaction. H351 Suspected of causing cancer. · Precautionary statements P101 If medical advice is needed, have product container or label at hand. Keep out of reach of children. P102 P280 Wear protective gloves. Obtain special instructions before use. P201 P308+P313 If exposed or concerned: Get medical advice/attention. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P405 Store locked up. 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: 10039-54-0	bis(hydroxylammonium) sulphate	2.0-5.0%
EINECS: 233-118-8	Xn R21/22-40-48/22	
Index number: 612-123-00-2	Xi R36/38	
Reg.nr.: 01-2119485971-25-xxxx	🗙 Xi R43	
	🗱 E R2	
	¥ N R50	
	Carc. Cat. 3	
	🚯 Carc. 2, H351; STOT RE 2, H373	
	🗄 Met. Corr.1, H290	
	Aquatic Acute 1, H400	
	Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit.	
	2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	
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· Additional information For the wording of the listed risk 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 skin contact Instantly wash with water and soap and rinse thoroughly.
- After eye contact Rinse opened eye for several minutes under running water (> 15 min). Then consult 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** 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:

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.

· 6.4 Reference to other sections

See Section 8 for information on personal protection equipment.

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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: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage
- **Requirements to be met by storerooms and containers:** Store only in the original container. Keep container tightly sealed.
- Information about storage in one common storage facility: Keep away from foodstuffs, beverages and food.
- · Further information about storage conditions:
- Protect from heat and direct sunlight.
- 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
- Components with limit values that require monitoring at the workplace:

• 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.

Do not eat, drink or smoke while working.

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

· Protection of hands:

Protective aloves.

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.

Material of gloves

-	Thickness	Breakthrough time
	(mm)	(min)
Nitril rubber	0,38	> 480

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according to 1907/2006/EC, Article 31

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0,65 > 240 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:

 \geq 3 (60 min)

Neoprene

Butyl rubber

· Eye protection: Safety glasses

· Body protection: Light weight protective clothing

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical a	nd chemical properties	
· General Information		
· Appearance: Form:	Fluid	
Colour:	Colourless	
	Clear	
· Odour:	Odourless	
· Odour threshold:	Not applicable	
· pH-value at 20 ℃:	3.5	
· Change in condition		
Melting point/Melting range:	Not determined	
Boiling point/Boiling range:	> 100 ℃	
· Flash point:	Not applicable	
· Inflammability (solid, gaseous)	Not applicable	
· Ignition temperature:	Not applicable	
· Decomposition temperature:	Not applicable	
· Self-inflammability:	Product is not selfigniting.	
· Danger of explosion:	Product is not explosive.	
 Critical values for explosion: 		
Lower:	Not applicable	
Upper:	Not applicable	
· Oxidising properties	Not applicable	
· Vapour pressure at 20 °C:	23 hPa	
· Density at 20 °C	1.023 g/cm ³	
 Relative density 	Not determined.	
· Vapour density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
Water:	miscible	
· Partition coefficient (n-octanol/wate	er): Not determined.	
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· Viscosity:		
dynamic:	Not determined	
kinematic:	Not determined	
· Solvent content:		
Organic solvents:	0.0 %	
Water:	~ 96 %	
· 9.2 Other information	No further relevant information available.	

SECTION 10: Stability and reactivity

- · 10.1 Reactivity
- 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known
- · 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:

· LD/LC50 values that are relevant for classification:

10039-54-0 bis(hydroxylammonium) sulphate

Oral LD50 620 mg/kg (rat)

Dermal LD50 1750 mg/kg (rab)

· Primary irritant effect:

- · on the skin: No irritant effect.
- · on the eye: No irritant effect.
- · Sensitisation: Sensitization possible by skin contact.
- Other information (about experimental toxicology): Not determined
- Subacute to chronic toxicity:

Harmful: danger of serious damage to health by prolonged exposure if swallowed.

- · Additional toxicological information:
- This statement was deduced from the properties of the single components.

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Limited evidence of a carcinogenic effect. Carc. 2

(Contd. on page 7)





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Trade name: C-41 KIT CD-B

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SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

10039-54-0 bis(hydroxylammonium) sulphate

EC50/48 h 1.62 mg/l (Daphnia magna)

LC50/96 h 7.2 mg/l (Pimephales promelas)

- 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: Not determined
- · Behaviour in sewage processing plants: Not determined
- · Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): Water-endangering. Do not allow product to reach ground water, water bodies or sewage system. 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

· 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.

(Contd. on page 8)





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Trade name: C-41 KIT CD-B

(Contd. of page 7)

SECTION 14: Transport information	
· 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:	Not applicable.
· 14.6 Special precautions for user	Not applicable.
 14.7 Transport in bulk according to Ann of MARPOL73/78 and the IBC Code 	Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	-

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · National regulations
- Information about limitation of use: Employment restrictions concerning pregnant and lactating women must be observed.
- · Water hazard class: Water hazard class 2 (Self-assessment): 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

- H290 May be corrosive to metals.
- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H351 Suspected of causing cancer.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- R2 Risk of explosion by shock, friction, fire or other sources of ignition.

R21/22 Harmful in contact with skin and if swallowed.

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Revision: 20.01.2015

Trade name: C-41 KIT CD-B

(Contd. of page 8) R36/38 Irritating to eyes and skin. R40 Limited evidence of a carcinogenic effect. R43 May cause sensitisation by skin contact. R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed. R50 Very toxic to aquatic organisms. · Department issuing data specification sheet: Laboratory Tel.: +49 (0)39291 425-15 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 Met. Corr.1: Corrosive to metals, Hazard Category 1 Acute Tox. 4: Acute toxicity, Hazard Category 4 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2 Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1 Carc. 2: Carcinogenicity, Hazard Category 2 STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2 Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1 Sources 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 applicable EEC directives: - 1999/45 - 1907/2006 - 1272/2008 • * Data compared to the previous version altered. GB



Printing date 04.03.2015

Version 2

Revision: 20.01.2015

· 1.1 Product identifier
· Trade name: <u>C-41 KIT CD-C</u>
· Article number: 13025, 13026 13027
 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 Photographic activities Consumer use Photochemicals Photographic developer Colour film photographic processing solution
 1.3 Details of the supplier of the safety data sheet 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 42515 E-Mail: kr@calbe-chemie.de 1.4 Emergency telephone number: Tel.: 0700-24112112 (CAL)
SECTION 2: Hazards identification
 · 2.1 Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008
· 2.1 Classification of the substance or mixture
 · 2.1 Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008
 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 GHS08 health hazard
 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 GHS08 health hazard STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.
 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 GHS08 health hazard STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure. GHS09 environment
 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 GHS08 health hazard STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure. GHS09 environment Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects. GHS07 Acute Tox. 4 H302 Harmful if swallowed.
 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 GHS08 health hazard STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure. GHS09 environment Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects. GHS07 Acute Tox. 4 H302 Harmful if swallowed. Skin Sens. 1 H317 May cause an allergic skin reaction.
 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 GHS08 health hazard STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure. GHS09 environment Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects. GHS07 Acute Tox. 4 H302 Harmful if swallowed.
 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 GHS08 health hazard STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure. GHS09 environment Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects. GHS07 Acute Tox. 4 H302 Harmful if swallowed. Skin Sens. 1 H317 May cause an allergic skin reaction. Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Safety data sheet

according to 1907/2006/EC, Article 31

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Trade name: C-	41 KIT CD-C
	(Contd. of page 1)
🗙 Xi; Sens	itising
R43:	May cause sensitisation by skin contact.
🏪 N; Dang	erous for the environment
R51/53:	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
The product guideline for • Classificatio The classific	concerning particular hazards for human and environment: has to be labelled due to the calculation procedure of the "General Classification preparations of the EU" in the latest valid version. on system: ation is in line with current EC lists. It is expanded, however, by information from rature and by information furnished by supplier companies.
· 2.2 Label ele	
	cording to Regulation (EC) No 1272/2008 is classified and labelled according to the CLP regulation. ograms
GHS07 GHS	508 GH209
· Signal word	Warning
4-(N-ethyl-N- • Hazard state H302 Harmfu H317 May ca H373 May ca	ermining components of labelling: 2-hydroxyethyl)-2-methylphenylenediamine sulphate ements ul if swallowed. ause an allergic skin reaction. ause damage to organs through prolonged or repeated exposure. o aquatic life with long lasting effects.
	ry statements
P101 P102 P280 P273 P363 P333+P313 P501	If medical advice is needed, have product container or label at hand. Keep out of reach of children. Wear protective gloves / eye protection. Avoid release to the environment. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention. Dispose of contents/container in accordance with local/regional/national/international regulations.
· 2.3 Other ha	zards
	BT and vPvB assessment
 • PBT: Not ap • vPvB: Not a 	
SECTION 3	: Composition/information on ingredients

· 3.2 Mixtures

· Description: Mixture of the substances listed below with harmless additions.

(Contd. on page 3) GB



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Version 2

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(Contd. of page 2)

Trade name: C-41 KIT CD-C

 Dangerous components: 		
CAS: 25646-77-9 EINECS: 247-162-0 Index number: 612-133-00-7	 4-(N-ethyl-N-2-hydroxyethyl)-2-methylphenylenediamine sulphate T R25 X n R48/22 X i R43 N R50/53 Acute Tox. 3, H301 STOT RE 2, H373 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Skin Sens. 1, H317 	5.0-10%

• Additional information For the wording of the listed risk 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. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 24 hours after the accident. · After skin contact Instantly wash with water and soap and rinse thoroughly.

· 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.

Instantly call for doctor.

· 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 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 Nitrogen oxides (NOx) Carbon monoxide sulphur dioxide (SO2)

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(Contd. of page 3)

Trade name: C-41 KIT CD-C

· 5.3 Advice for firefighters

· Protective equipment:

Do not inhale explosion gases or combustion gases. At formation of toxic gases: Put on breathing apparatus.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective clothing.
- 6.2 Environmental precautions: Inform respective authorities in case product reaches water or sewage system. 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 Deference to other continue.
- 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 Wear protective clothing.
- · 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:** Store only in the original container. Keep container tightly sealed.
- Information about storage in one common storage facility: Keep away from foodstuffs, beverages and food.
- Further information about storage conditions: Store in a cool place.
- · Recommended storage temperature: 5-25 °C
- · 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
- · Components with limit values that require monitoring at the workplace:
- 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.

(Contd. on page 5)

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Trade name: C-41 KIT CD-C

Take off immedi Wash contamina Wash hands du Avoid contact wi	foodstuffs, beve ately all contamin ated clothing befor ring breaks and a th the eyes and s or smoke while	ated clothing. re reuse. t the end of the work. kin.
 Breathing equip 	pment: Filter E	
EEC and the res This recommend as well as to the Only use chemic Selection of the degradation • Material of glov Nitril rubber Neoprene Butyl rubber Avoid natural rul • As protection fit Synthetic gloves Value for perme ≥ 3 (60 min)	s. loves to be used sultant standard E dation applies on purpose specifie cal-protective glo glove material or /es Thickness (mm) 0,38 0,65 0,36 bber gloves. rom splashes g lo ation: Level: e gloves made c	y to the product stated in the Safety Data Sheet and supplied by us
SECTION 9: P	hysical and cl	emical properties
• 0 1 Information	on basic nhyei	al and chemical properties

General Information		
Appearance:		
Form:	Fluid	
Colour:	Light yellow	
	Clear	
Odour:	Pungent	
	like sulphur dioxide (SO2)	
Odour threshold:	Not determined.	
pH-value at 20 ℃:	2.9	
Change in condition		
Melting point/Melting range:	Not determined	
Boiling point/Boiling range:	> 100 ℃	
Flash point:	Not applicable	
Inflammability (solid, gaseous)	Not applicable.	

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Trade name: C-41 KIT CD-C

	(Contd. of p	bage 5)
· Ignition temperature:		
Decomposition temperature:	Not determined.	
· Self-inflammability:	Product is not selfigniting.	
· Danger of explosion:	Product is not explosive.	
· Critical values for explosion:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapour pressure at 20 °C:	23 hPa	
· Density at 20 ℃	1.045 g/cm ³	
· Relative density	Not determined.	
 Vapour density 	Not determined.	
 Evaporation rate 	Not determined.	
 Solubility in / Miscibility with 		
Water:	miscible	
· Partition coefficient (n-octanol/w	ater): Not determined.	
· Viscosity:		
dynamic:	Not determined	
kinematic:	Not determined	
· Solvent content:		
Organic solvents:	0.0 %	
· 9.2 Other information	No further relevant information available.	

SECTION 10: Stability and reactivity

- · 10.1 Reactivity
- 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided:
- To avoid thermal decomposition do not overheat.
- No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions Reacts with strong acids and alkali
- **10.4 Conditions to avoid** No further relevant information available.
- \cdot 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:

· LD/LC50 values that are relevant for classification:

25646-77-9 4-(N-ethyl-N-2-hydroxyethyl)-2-methylphenylenediamine sulphate

Oral LD50 45 mg/kg (rat)

· Primary irritant effect:

• on the skin: No irritant effect.

(Contd. on page 7)

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(Contd. of page 6)

Trade name: C-41 KIT CD-C

· on the eye: No irritant effect.

· Sensitisation: Sensitization possible by skin contact.

· 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: Harmful

Irritant

Dangerous for the environment.

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

- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- No known symptoms to date.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

25646-77-9 4-(N-ethyl-N-2-hydroxyethyl)-2-methylphenylenediamine sulphate

LC50/96 h 0.75 mg/l (Daphnia magna)

0.5-1.0 mg/l (Pimephales promelas)

• 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.
- · Remark: Toxic for fish
- · Behaviour in sewage processing plants: Not determined
- · Additional ecological information:
- · General notes:

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

Water hazard class 3 (German Regulation) (Self-assessment): highly water-endangering. Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.

Also poisonous for fish and plankton in water bodies.

At present there are no ecotoxicological assessments.

- Toxic for aquatic organisms
- 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.

(Contd. on page 8)

GB





Printing date 04.03.2015

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Revision: 20.01.2015

Trade name: C-41 KIT CD-C

(Contd. of page 7) 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

· 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.

· 14.1 UN-Number	
· ADR, IMDG, IATA	UN 3082
 14.2 UN proper shipping name 	
· ADR, IATA	ENVIRONMENTALLY HAZARDOUS
	SUBSTANCE, LIQUID, N.O.S. (4-(N-ethyl-N-2-
·IMDG	hydroxyethyl)-2-methylphenylenediamine sulphate ENVIRONMENTALLY HAZARDOUS
imba	SUBSTANCE, LIQUID, N.O.S. (4-(N-ethyl-N-2-
	hydroxyethyl)-2-methylphenylenediamine sulphate
	MARINE POLLUTANT
· 14.3 Transport hazard class(es)	
· ADR	
$\mathbf{\Phi}$	
· Class	9 (M6) Miscellaneous dangerous substances and articles.
· Class	
Class	9 Miscellaneous dangerous substances and articles.
. 14 4 Dooking group	
 14.4 Packing group ADR, IMDG, IATA 	Ш
· 14.5 Environmental hazards:	Product contains environmentally hazardous substances: 4-(N-ethyl-N-2-hydroxyethyl)-2-
	methylphenylenediamine sulphate
· Marine pollutant:	Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)
· Special marking (IATA):	Symbol (fish and tree)

GB





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Revision: 20.01.2015

Trade name: C-41 KIT CD-C

	(Contd. of page 8)
 14.6 Special precautions for user 	Warning: Miscellaneous dangerous substances and articles.
 14.7 Transport in bulk according to Ann of MARPOL73/78 and the IBC Code 	Not applicable.
 Transport/Additional information: 	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.
· ADR	Goods are not subject to the provisions in accordance with the special provision 375 ADR.
·IMDG	Goods are not subject to the provisions in accordance with 2.10.2.7 IMDG-Code.
· IATA · Remarks:	Goods are not subject to the provisions in accordance with the special provision 197 IATA- DGR. PAX/CAO 964
· UN "Model Regulation":	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4-(N-ethyl-N-2- hydroxyethyl)-2-methylphenylenediamine sulphate), 9, III

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · National regulations

Class	Share in %
I	9.1

Water hazard class: Water danger class 3 (Self-assessment): highly 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

- H301 Toxic if swallowed.
- H317 May cause an allergic skin reaction.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

(Contd. on page 10)



Printing date 04.03.2015

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Revision: 20.01.2015

Trade name: C-41 KIT CD-C

(Contd. of page 9) R25 Toxic if swallowed. R43 May cause sensitisation by skin contact. R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed. R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. · Department issuing data specification sheet: Laboratory Tel.: +49 (0)39291 425-15 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 Acute Tox. 3: Acute toxicity, Hazard Category 3 Acute Tox. 4: Acute toxicity, Hazard Category 4 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1 STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2 Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2 Sources 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 applicable EEC directives: - 1999/45 - 1907/2006 - 1272/2008 • * Data compared to the previous version altered. GB



Printing date 04.03.2015

Version 2

Revision: 20.01.2015

SECTION 1: Identification of the substance/mixture and of the company/undertaking
· 1.1 Product identifier
· Trade name: <u>C-41 KIT BX-A</u>
· Article number: 13025 13026, 13027
 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 Photographic activities Photochemicals Colour film photographic processing solution bleach solution
 1.3 Details of the supplier of the safety data sheet 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 42515 E-Mail: kr@calbe-chemie.de 1.4 Emergency telephone number: Tel.: 0700-24112112 (CAL)
SECTION 2: Hazards identification
• 2.1 Classification of the substance or mixture • Classification according to Regulation (EC) No 1272/2008 GHS05 corrosion
Met. Corr.1 H290 May be corrosive to metals.
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.
 Classification according to Directive 67/548/EEC or Directive 1999/45/EC R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Information concerning particular hazards for human 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. 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.
 • 2.2 Label elements • Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation. (Contd. on page 2)

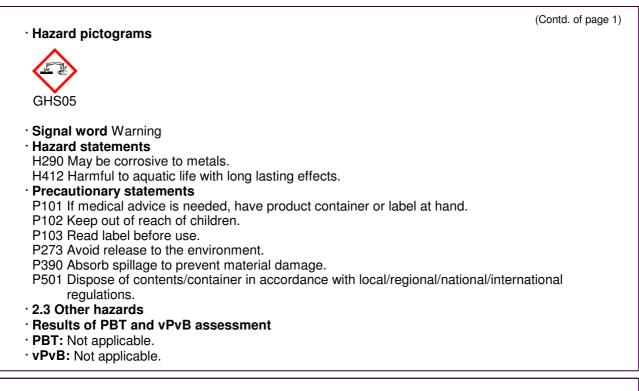


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Trade name: C-41 KIT BX-A



SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description: Mixture of the substances listed below with harmless additions.

· Dangerous components:

2 angere ae eenipenenter		
CAS: 111687-36-6	ammonium iron(III)trimethylenediaminetetraacetate	10-15%
ELINCS: 400-660-3	hemihydrate	
Index number: 607-472-00-2	₩ N Ř51/53	
	Aquatic Chronic 2, H411	
CAS: 110-15-6	succinic acid	5.0-10%
EINECS: 203-740-4	🗙 Xi R36	
Reg.nr.: 01-2119896114-34-xxxx	🚯 Eye Irrit. 2, H319	
CAS: 6484-52-2	ammonium nitrate	2.0-5.0%
EINECS: 229-347-8	A O R8-9	
Reg.nr.: 01-2119490981-27-0000	🔞 Ox. Sol. 1, H271	

· Additional information For the wording of the listed risk 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.

Personal protection for the First Aider.

· After skin contact If skin irritation continues, consult a doctor.

· After eye contact

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

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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 further relevant information available.

· Information for doctor None

• **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 Nitrogen oxides (NOx) Carbon monoxide Carbon dioxide

· 5.3 Advice for firefighters

· Protective equipment:

Do not inhale explosion gases or combustion gases. At formation of toxic gases: Put on breathing apparatus.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective clothing.
- 6.2 Environmental precautions:

Inform respective authorities in case product reaches water or sewage system. 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 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 Keep containers tightly sealed.

• Information about protection against explosions and fires: The product is not flammable

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- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage
- Requirements to be met by storerooms and containers: Store only in the original container. • Information about storage in one common storage facility:
- Keep away from foodstuffs, beverages and food.
- Further information about storage conditions: Store in a cool place.
- · Recommended storage temperature: 5-25 °C
- 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
- · 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.

· 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. 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.

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 r	ubber gloves.				
• As protection from splashes gloves made of the following materials are suitable:					
Synthetic glove	es	-			

Value for permeation: Level:

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according to 1907/2006/EC, Article 31

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≥ 3 (60 min)

· Eye protection: Safety glasses

· Body protection: Light weight protective clothing

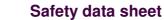
SECTION 9: Physical and chemical properties		
• 9.1 Information on basic physical a • General Information	nd chemical properties	
· Appearance: Form:		
Colour:	Fluid Dark green	
· Odour:	Not characteristic	
· Odour threshold:	Not determined.	
· pH-value at 20 °C:	3.8	
· Change in condition		
Melting point/Melting range:	Not determined	
Boiling point/Boiling range:	> 100 ℃	
· Flash point:	Not applicable	
· Inflammability (solid, gaseous)	Not applicable.	
· Ignition temperature:	630 ℃	
· Decomposition temperature:	Not determined.	
· Self-inflammability:	Product is not selfigniting.	
 Danger of explosion: 	Product is not explosive.	
 Critical values for explosion: 		
Lower:	None	
Upper:	None	
· Oxidising properties	None	
· Vapour pressure at 20 °C:	23 hPa	
· Density at 20 °C	1.15 g/cm³	
Relative density	Not determined.	
· Vapour density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
Water:	miscible	
· Partition coefficient (n-octanol/wate	er): Not determined.	
· Viscosity:		
dynamic:	Not determined	
kinematic:	Not determined	
· Solvent content:		
Organic solvents:	0.0 %	
Water:	~ 70 %	
		(Contd. on page 6



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according to 1907/2006/EC, Article 31

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· 9.2 Other information

No further relevant information available.

SECTION 10: Stability and reactivity

- · 10.1 Reactivity
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known
- 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:
- · LD/LC50 values that are relevant for classification:
- 111687-36-6 ammonium iron(III)trimethylenediaminetetraacetate hemihydrate
- Oral LD50 > 5000 mg/kg (rat)

110-15-6 succinic acid

Oral LD50 2260 mg/kg (rat)

6484-52-2 ammonium nitrate

Oral LD50 4820 mg/kg (rat)

- · Specific symptoms in biological assay: Not determined
- · Primary irritant effect:
- on the skin: No irritant effect.
- · on the eye: No irritant effect.
- · Sensitisation: No sensitizing effect known.
- · Additional toxicological information:

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

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity:

No further relevant information available.

111687-36-6 ammonium iron(III)trimethylenediaminetetraacetate hemihydrate

EC50/48 h > 1000 mg/l (Daphnia magna)

LC50/96 h > 1000 mg/l (Onchrohynchus mykiss)

110-15-6 succinic acid

EC50/48 h 374 mg/l (Daphnia magna)

· 12.2 Persistence and degradability Not determined

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Trade name: C-41 KIT BX-A	
	(Contd. of page 6)
 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. Not determined Remark: Harmful to fish 	
 Behaviour in sewage processing plants: Not determined 	
· Additional ecological information:	
 General notes: Water hazard class 2 (German Regulation) (Self-assessment): Water-endangering At present there are no ecotoxicological assessments. This statement was deduced from the properties of the single components. Harmful to aquatic organisms 12.5 Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. 12.6 Other adverse effects No further relevant information available. 	g.
SECTION 13: Disposal considerations	
 • 13.1 Waste treatment methods • Recommendation Must not be disposed of together with household garbage. Do not allow product to system. 	reach sewage
 13.1 Waste treatment methods Recommendation Must not be disposed of together with household garbage. Do not allow product to system. Must be specially treated under adherence to official regulations. 	reach sewage
 13.1 Waste treatment methods Recommendation Must not be disposed of together with household garbage. Do not allow product to system. Must be specially treated under adherence to official regulations. European waste catalogue 	reach sewage
 13.1 Waste treatment methods Recommendation Must not be disposed of together with household garbage. Do not allow product to system. Must be specially treated under adherence to official regulations. 	
 13.1 Waste treatment methods Recommendation Must not be disposed of together with household garbage. Do not allow product to system. Must be specially treated under adherence to official regulations. European waste catalogue 09 01 05* bleach solutions and bleach fixer solutions Uncleaned packagings: Recommendation: Non contaminated packagings can be used for recycling. Empty contaminated packagings thoroughly. They can be recycled after thorough cleaning. 	
 13.1 Waste treatment methods Recommendation Must not be disposed of together with household garbage. Do not allow product to system. Must be specially treated under adherence to official regulations. European waste catalogue 09 01 05* bleach solutions and bleach fixer solutions Uncleaned packagings: Recommendation: Non contaminated packagings can be used for recycling. Empty contaminated packagings thoroughly. They can be recycled after thorough cleaning. 	
 13.1 Waste treatment methods Recommendation Must not be disposed of together with household garbage. Do not allow product to system. Must be specially treated under adherence to official regulations. European waste catalogue 09 01 05* bleach solutions and bleach fixer solutions Uncleaned packagings: Recommendation: Non contaminated packagings can be used for recycling. Empty contaminated packagings thoroughly. They can be recycled after thorough cleaning. Recommended cleaning agent: Water, if necessary with cleaning agent. 	

14.2 UN proper shipping name
 ADR, IMDG, IATA

CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (ammonium iron(III) trimethylenediaminetetraacetate hemihydrate)

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	(Contd. of page
14.3 Transport hazard class(es)	
ADR, IMDG, IATA	
UT 30	
Class	8 Corrosive substances.
Label	8
14.4 Packing group	
ADR, IMDG, IATA	III
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user	Warning: Corrosive substances.
Kemler Number:	80
EMS Number:	F-A,S-B
· Segregation groups	Acids
 14.7 Transport in bulk according to Ani of MARPOL73/78 and the IBC Code 	nex II Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	51
Transport category	3
Tunnel restriction code	E
Remarks:	"Limited quantity" according to chapter 3.4 ADR
IMDG	
· Limited quantities (LQ)	5 III instant successity if a second is site should be 0.4 IMDO
· Remarks:	"Limited quantity" according to chapter 3.4 IMDG
Remarks:	Packing Instruction PAX 852, CAO 856
	· ·

SECTION 15: Regulatory information

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

· National regulations

· Information about limitation of use: None

• Water hazard class: Water hazard class 2 (Self-assessment): water-endangering.

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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 H319 Causes serious eye irritation. H411 Toxic to aquatic life with long lasting effects. R36 Irritating to eyes. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R8 Contact with combustible material may cause fire. 	SEC1	FION 16: Other information
 May cause fire or explosion; strong oxidiser. Causes serious eye irritation. Toxic to aquatic life with long lasting effects. Irritating to eyes. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Contact with combustible material may cause fire. Contact with combustible material may cause fire. Explosive when mixed with combustible material. Department issuing data specification sheet: Laboratory Fel.: +49 (0)39291 425-15 Abbreviations and acronyms: NID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations 2006 by Rail) CAO: International Civil Aviation Organisation ADR: Accord européen sur le transport of Dangerous Goods by Rail) CAO: International Civil Aviation Organisation ADR: Accord européen sur le transport des marchandises dangereuses par chemin de fer (Regulations 2006 by Rail) CAO: International Civil Aviation Organisation Abbreviational Civil Aviation Organisation ADR: International Waritime Code for Dangerous Goods by Rail) CAO: International Waritime Code for Classification and Labelling of Chemicals EINCS: European Inventory of Existing Commercial Chemical Substances ENNCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) CoSO: Lethal dose, 50 percent Dys. Bolin Consolve to meals, Hazard Category 1 Wet. Corr. 1: Corrosive to meals, Hazard Category 1 Wet. Corr. 1: Corrosive to meals, Hazard Category 1 Wet. Corr. 1: Corrosive to the aquatic environment - Chronic Hazard, Category 2 Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 3 Sources applicable EEC directives: 1999/45 1907/2006 1272/2008 1272/2008 <l< th=""><th>These any sp</th><th>e data are based on our present knowledge. However, they shall not constitute a guarantee for becific product features and shall not establish a legally valid contractual relationship.</th></l<>	These any sp	e data are based on our present knowledge. However, they shall not constitute a guarantee for becific product features and shall not establish a legally valid contractual relationship.
 R51/53 Toxic to aquátic organisms, may cause long-term adverse effects in the aquatic environment. R3 Contact with combustible material may cause fire. R3 Explosive when mixed with combustible material. Department issuing data specification sheet: _aboratory Tel.: +49 (0)39291 425-15 Abbreviations and acronyms: R1D: Rejelement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) CAO: International Carriage of Dangerous Goods by Rail) CAO: International Carriage of Dangerous Goods by Road) MDG: International Air Transport Association BHS: Globally Harmonised System of Classification and Labelling of Chemicals EINCS: European List of Notified Chemical Substances ZLINCS: European List of Notified Category 1 Xes: Chemical Abstrates Service (division of the American Chemical Society) Zo: Lethal concentration, 50 percent Zos: Lethal concentration, 50 percent Zos: Sol. 1: Oxidising Solids, Hazard Category 1 Yey Irrit. 2: Reirous eve damage/eve irritation, Hazard Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3 Sources applicable EEC directives: 1999/45 1907/2006 1272/2008 nternal physical tests, MSDS of the ingredients, nformation system on hazardous substances of the German Social Accident Insurance	Relev H271 H319 H411	May cause fire or explosion; strong oxidiser. Causes serious eye irritation.
 Explosive when mixed with combustible material. Department issuing data specification sheet: aboratory Fel.: +49 (0)39291 425-15 Abbreviations and acronyms: Alb: Réglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Civil Aviation Organisation ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the 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) MDG: International Maritime Code for Dangerous Goods ATA: International Ari Transport Association CHS: European Iventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAO: Lethal dose, 50 percent CAO: Leth		3 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Laboratory Tel.: +49 (0)39291 425-15 Abbreviations and acronyms: AlD: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) CAO: International Civil Aviation Organisation ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the nternational Carriage of Dangerous Goods by Road) MDG: International Maritime Code for Dangerous Goods ATA: International Maritime Code for Dangerous Goods ATA: 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) C50: Lethal concentration, 50 percent D50: Lethal dose, 50 percent D50: Lethal dose, 50 percent D50: Lethal dose, 50 percent D50: Lethal concentration,	R8 R9	
1999/45 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	Labor Tel.: + Abbre RID: Rê Concer ICAO: I ADR: A Internat IMDG: IATA: In GHS: C ELINCC ELINCC ELINCC ELINCC ELINCC CAS: C CAS: C COS: I DSO: I Ox. Sol Met. Ca Eye Irri Aquatic Aquatic	atory 49 (0)39291 425-15 eviations and acronyms: aglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations ning the International Transport of Dangerous Goods by Rail) nternational Civil Aviation Organisation ccord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the tional Carriage of Dangerous Goods by Road) International Maritime Code for Dangerous Goods nternational Air Transport Association Biobally Harmonised System of Classification and Labelling of Chemicals S: European Inventory of Existing Commercial Chemical Substances S: European Inventory of Existing Commercial Chemical Substances S: European Inventory of the American Chemical Society) Lethal concentration, 50 percent .1: Oxidising Solids, Hazard Category 1 .2: Serious eye damage/eye irritation, Hazard Category 2 Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 3
Data compared to the previous version altered.	applic - 1999 - 1907 - 1272 Intern Inform	able EEC directives:
	* Data	compared to the previous version altered.



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SECTION 1: Identification of the substance/mixture and of the company/undertaking
· 1.1 Product identifier
· Trade name: <u>C-41 KIT BX-B</u>
· Article number: 13025, 13026, 13027
 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
 Application of the substance / the mixture Photographic activities Consumer use Photochemicals Photographic fixer
 1.3 Details of the supplier of the safety data sheet 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 42515 E-Mail: kr@calbe-chemie.de 1.4 Emergency telephone number: Tel.: 0700-24112112 (CAL)
SECTION 2: Hazards identification
SECTION 2: Hazards identification • 2.1 Classification of the substance or mixture • Classification according to Regulation (EC) No 1272/2008 The product is not classified according to the CLP regulation.
 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 The product is not classified according to the CLP regulation. Classification according to Directive 67/548/EEC or Directive 1999/45/EC Void Information concerning particular hazards for human and environment: No hazards to be particularly mentioned. Please note the information of this Material Safety Data Sheet. Classification system: The classification is in line with current EC lists. It is expanded, however, by information from
 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 The product is not classified according to the CLP regulation. Classification according to Directive 67/548/EEC or Directive 1999/45/EC Void Information concerning particular hazards for human and environment: No hazards to be particularly mentioned. Please note the information of this Material Safety Data Sheet. Classification system:

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SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description: Mixture of the substances listed below with harmless additions.

· Dangerous components: Void

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

Instantly wash with water and soap and rinse thoroughly. The product is not skin irritating.

- After eye contact Rinse opened eye for several minutes under running water (> 15 min). Then consult 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.
- · Information for doctor None
- **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 Use fire fighting measures that suit the environment.

· For safety reasons unsuitable extinguishing agents None

• 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.
- · 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). • 6.4 Reference to other sections

See Section 13 for information on disposal.

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No dangerous materials are released.

SECTION 7: Handling and storage

- · 7.1 Precautions for safe handling No special measures required.
- · 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: Not required.
- Further information about storage conditions: Store in a cool place.
- · Recommended storage temperature: 5-25 °C
- · 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:
- 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.

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

· 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
- As protection from splashes gloves made of the following materials are suitable:
- Synthetic gloves
- Value for permeation: Level:
- ≥ 3 (60 min)
- \cdot Not suitable are gloves made of the following materials: Natural rubber, NR
- · Eye protection: Safety glasses
- · Body protection: Light weight protective clothing

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SECTION 9: Physical and c	hemical properties
· 9.1 Information on basic phys	ical and chemical properties
· General Information	
· Appearance:	
Form: Colour:	Fluid
Colour:	Colourless Clear
· Odour:	Ammonia-like
· pH-value at 25 ℃:	7.3
· Change in condition	
Melting point/Melting range	: Not determined
Boiling point/Boiling range:	> 100 °C
· Flash point:	Not applicable
· Self-inflammability:	Product is not selfigniting.
 Danger of explosion: 	Product is not explosive.
· Critical values for explosion:	
Oxidising properties	None
· Vapour pressure at 20 °C:	23 hPa
· Density at 20 °C	1.36 g/cm ³
· Solubility in / Miscibility with	
Water:	miscible
· Viscosity:	
dynamic:	Not determined
kinematic:	Not determined
· Solvent content:	
Water:	40.5 %
Solids content:	59.1 %
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- · 10.1 Reactivity
- · 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 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

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SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

- · Acute toxicity:
- Primary irritant effect:
- on the skin: No irritant effect.
- · on the eye: No irritant effect.
- · Sensitisation: No sensitizing effect known.

· Additional toxicological information:

This statement was deduced from the properties of the single components. The material is not subject to classification according to EC lists in the last version. When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

SECTION 12: Ecological information

· 12.1 Toxicity

- · Aquatic toxicity: Not determined
- · 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: Not determined
- · Behaviour in sewage processing plants: Not determined
- · Additional ecological information:

· General notes:

At present there are no ecotoxicological assessments.

Water hazard class 1 (German Regulation) (Self-assessment): Weakly water-endangering.

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

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.

The product does not contain organically bounded halogens (AOX-free).

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

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· Uncleaned packagings:

Recommendation:

Non contaminated packagings can be used for recycling.

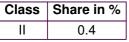
Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

SECTION 14: Transport information	
· 14.1 UN-Number · ADR, ADN, IMDG, IATA	Void
 14.2 UN proper shipping name ADR ADN, IMDG, IATA 	Void 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: 	Not applicable.
 14.6 Special precautions for user 	Not applicable.
• 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.	
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	-

SECTION 15: Regulatory information

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

· 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.

· Department issuing data specification sheet:

Laboratory

Tel.: +49 (0)39291 425-15

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(Contd. of page 6) • 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) 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) • Sources applicable EEC directives: 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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Version 2

Revision: 20.01.2015

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ber: Tel.: 0700-24112112 (CAL)	
ication	
gulation (EC) No 1272/2008	
ular hazards for human and envi labelled due to the calculation pro rations of the EU" in the latest valid ntioned. Please note the informatio urrent EC lists. It is expanded, how	ironment: ocedure of the "General d version. on of this Material Safety Data wever, by information from
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	13027 If the substance or mixture and uniformation about the identified uses a safety data sheet. If the mixture cal sing solution the safety data sheet mber: Tel.: 0700-24112112 (CAL) fication ance or mixture regulation (EC) No 1272/2008 fording to the CLP regulation. rective 67/548/EEC or Directive 1 ular hazards for human and envice a labelled due to the calculation pro- arations of the EU" in the latest valie entioned. Please note the information current EC lists. It is expanded, how hation furnished by supplier compan- tion (EC) No 1272/2008 Void essment





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Trade name: C-41 KIT SB

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SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description: Mixture of the substances listed below with harmless additions.

· Dangerous components:		
	???????????????????????????????????????	< 0.5%
	🚸 Flam. Liq. 1, H224	
CAS: 55965-84-9 Index number: 613-167-00-5	a mixture of: 5-chloro-2-methyl-2 H -isothiazol-3-one [EC No 247-500-7] and 2-methyl-2 H -isothiazol-3-one [EC No 220- 239-6] (3:1) T R23/24/25 C R34 Xi R43 N R50/53 Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 Skin Corr. 1B, H314 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Skin Sens. 1, H317	< 0.5%

· Additional information For the wording of the listed risk 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 No special measures required.
- After skin contact Instantly wash with water and soap and rinse thoroughly.
- · After eye contact
- Rinse opened eye for several minutes under running water (> 15 min). Then consult 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.
- · Information for doctor None
- **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 Nitrogen oxides (NOx)

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Safety data sheet

according to 1907/2006/EC, Article 31

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5.3 Advice for firefighters

· Protective equipment: 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: No special measures required.
- · 6.3 Methods and material for containment and cleaning up: No special measures required.
- · 6.4 Reference to other sections

See Section 8 for information on personal protection equipment.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

The lists that were valid during the compilation were used as basis.

- · 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:
- Keep away from foodstuffs, beverages and food.
- Further information about storage conditions: Keep container tightly sealed.

Store in a cool place.

- Recommended storage temperature: 5-25 °C
- · 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:

• 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. Do not eat, drink or smoke while working. Take off immediately all contaminated clothing.

Wash hands during breaks and at the end of the work. Avoid contact with the eyes and skin.

• Breathing equipment: Not required.

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· Protection of hands: Not required.

• Eye protection: Not required.

· Body protection: Not required.

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:	6-7
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	
· Flash point:	Not applicable
· Ignition temperature:	Not determined
· Self-inflammability:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive.
· Vapour pressure at 20 °C:	23 hPa
· Density at 20 °C	~ 1.00 g/cm ³
 Solubility in / Miscibility with Water: 	miscible
 Viscosity: dynamic: kinematic: 	Not determined Not determined
 Solvent content: Organic solvents: 	0.0 %
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

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

No decomposition if used according to specifications.

- 10.3 Possibility of hazardous reactions No dangerous reactions known
- · 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.

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(Contd. of page 4) • 10.6 Hazardous decomposition products: No dangerous decomposition products known

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- on the skin: No irritant effect.
- · on the eye: No irritant effect.
- · Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: Not determined
- · 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: Not determined
- · Behaviour in sewage processing plants: Not determined
- · Additional ecological information:

· General notes:

At present there are no ecotoxicological assessments.

The product does not contain organically bounded halogens (AOX-free).

Water hazard class 1 (German Regulation) (Self-assessment): Weakly water-endangering.

- 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

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 99 wastes not otherwise specified
- · Uncleaned packagings:
- · Recommendation:

Non contaminated packagings can be used for recycling.

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(Contd. of page 5) Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

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

SECTION 14: Transport information		
· 14.1 UN-Number · ADR, ADN, IMDG, IATA	Void	
 14.2 UN proper shipping name ADR ADN, IMDG, IATA 	Void 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:	Not applicable.	
· 14.6 Special precautions for user	Not applicable.	
 14.7 Transport in bulk according to Anr of MARPOL73/78 and the IBC Code 	nex II Not applicable.	
· Transport/Additional information:	Not dangerous according to the above specifications.	
· UN "Model Regulation":	-	

SECTION 15: Regulatory information

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

- · 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

- H224 Extremely flammable liquid and vapour.
- H301 Toxic if swallowed.
- H311 Toxic in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H331 Toxic if inhaled.
- H400 Very toxic to aquatic life.

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H41	(Contd. of page 6) Very toxic to aquatic life with long lasting effects.
	24/25 Toxic by inhalation, in contact with skin and if swallowed. Causes burns. May cause sensitisation by skin contact.
Labo Tel.: Abb RID: Conc ICAO ADR: Intern IMDG IATA: GHS: EINE ELING CAS: Flam. Acute Skin (Skin (Skin (Artment issuing data specification sheet: ratory +49 (0)39291 425-15 eviations and acronyms: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations erning the International Transport of Dangerous Goods by Rail) International Civil Aviation Organisation Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the ational Carriage of Dangerous Goods by Road) : International Maritime Code for Dangerous Goods International Maritime Code for Dangerous Goods International Air Transport Association Globally Harmonised System of Classification and Labelling of Chemicals CS: European Inventory of Existing Commercial Chemical Substances SS: European List of Notified Chemical Substances Chemical Abstracts Service (division of the American Chemical Society) Liq. 1: Flammable liquids, Hazard Category 1 Tox. 3: Acute toxicity, Hazard Category 1 East. I: Sensitisation - Skin, Hazard Category 1 East. I: Sensitisation - Skin, Hazard Category 1 ic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1 ic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
- 199 - 190 - 127 Inter Infor	rces cable EEC directives: 19/45 17/2006 22/2008 nal physical tests, MSDS of the ingredients, mation system on hazardous substances of the German Social Accident Insurance STIS-database on hazardous substances), http://www.dguv.de/ifa/en/gestis/stoffdb/index.jsp