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

Printing date 12.12.2017	Version 7	Revision: 12.12.2017
SECTION 1: Identification of	of the substance/mixture and	d of the company/undertaking
· 1.1 Product identifier		
<ul> <li>Trade name: <u>Isoroll-D</u></li> </ul>		
• Article number: 10113		
<ul> <li>1.2 Relevant identified uses o To this day we do not have any available we will add these to th</li> </ul>	information about the identified us	<b>uses advised against</b> se at the moment. These data are
<ul> <li>Application of the substance Photochemicals Developer for X-ray films Reserved for industrial and prof</li> </ul>		
<ul> <li>1.3 Details of the supplier of t</li> <li>Manufacturer/Supplier: Calbe Chemie GmbH Stadtfeld 31</li> <li>D-39240 Calbe</li> <li>Tel.: +49 (0)39291 425-0</li> <li>Fax: +49 (0)39291 425-25</li> <li>e-mail: info@calbe-chemie.de</li> <li>www.calbe-chemie.de</li> </ul>	he safety data sheet	
Informing department: Tel.: +49 (0)39291 42515 E-Mail: kr@calbe-chemie.de     1.4 Emergency telephone num	<b>nber:</b> Tel.: 0700-24112112 (CAL)	)
SECTION 2: Hazards identi	fication	
<ul> <li>2.1 Classification of the subst</li> <li>Classification according to Research</li> </ul>		
GHS07		
Skin Irrit. 2 H315 Causes skin		
Eye Irrit. 2 H319 Causes seri STOT SE 3 H335 May cause r	-	
· 2.2 Label elements · Labelling according to Regula		ation.
GHS07		
<ul> <li>Signal word Warning</li> <li>Hazard statements</li> <li>H315 Causes skin irritation.</li> </ul>		
H319 Causes serious eye irritat	ion.	(Contd. on page 2)



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H335 May cause respiratory irritation.

# · Precautionary statements

P280 Wear protective gloves / eye protection.

P332+P313 If skin irritation occurs: Get medical advice/attention.

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

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

#### · Additional information:

EUH208 Contains 4-(hydroxymethyl)-4-methyl-1-phenylpyrazolidin-3-one. May produce an allergic reaction.

· 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.

<ul> <li>Dangerous components:</li> </ul>		
CAS: 584-08-7 EINECS: 209-529-3 Reg.nr.: 01-2119532646-36-xxxx	potassium carbonate Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	20-25%
CAS: 6381-77-7 EINECS: 228-973-9 Reg.nr.: 01-2120009701-69-xxxx	sodium isoascorbate Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	5-10%
CAS: 111-46-6 EINECS: 203-872-2 Index number: 603-140-00-6 Reg.nr.: 01-2119457857-21-xxxx	2,2'-oxybisethanol	5-10%
CAS: 139-89-9 EINECS: 205-381-9 Reg.nr.: 01-2119972845-22-xxxx	Hydroxyethylethylenediaminetriacetic acid, trisodium salt, solution Skin Irrit. 2, H315; Eye Irrit. 2, H319	2-5%
CAS: 7681-57-4 EINECS: 231-673-0 Index number: 016-063-00-2 Reg.nr.: 01-2119531326-45-xxxx	disodium disulphite Eye Dam. 1, H318 Acute Tox. 4, H302	0.5-2%
CAS: 13047-13-7 EINECS: 235-920-3	4-(hydroxymethyl)-4-methyl-1-phenylpyrazolidin-3- one Aquatic Chronic 2, H411 Acute Tox. 4, H302; Skin Sens. 1, H317	≥0.5-≤1%

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

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

· 4.1 Description of first aid measures

### · General information

Personal protection for the First Aider.

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Instantly remove any clothing soiled by the product.

· After inhalation Supply fresh air.

#### · After skin contact

Instantly wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.

#### · After eye contact

Rinse opened eye for several minutes under running water (at least 15 minutes). Remove contact lenses, if present and easy to do. Use eye protection. Call a doctor immediately.

#### · After swallowing

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; instantly call for medical help.

- · 4.2 Most important symptoms and effects, both acute and delayed
- No known symptoms to date.
- 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

· 5.3 Advice for firefighters

## • **Protective equipment:** Do not inhale explosion gases or combustion gases. At formation of toxic gases:

Put on breathing apparatus.

· Additional information The product is not flammable

# **SECTION 6: Accidental release measures**

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective clothing.
- 6.2 Environmental precautions: Do not allow to enter drainage system, surface or ground water.
- · 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste according to item 13.

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

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#### · 6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

# **SECTION 7: Handling and storage**

- 7.1 Precautions for safe handling No special precautions necessary if used correctly.
   Information about protection against explosions and fires: No special measures required. The product is not flammable
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage
- · Requirements to be met by storerooms and containers: No special requirements.
- Information about storage in one common storage facility:
- 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:

- 111-46-6 2,2'-oxybisethanol
- WEL Long-term value: 101 mg/m<sup>3</sup>, 23 ppm

7681-57-4 disodium disulphite

WEL Long-term value: 5 mg/m<sup>3</sup>

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

- · 8.2 Exposure controls
- · Personal protective equipment
- · General protective and hygienic measures

The usual precautionary measures should be adhered to general rules for handling chemicals. Keep away from foodstuffs, beverages and food.

Take off immediately all contaminated clothing.

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

Do not eat, drink or smoke while working.

Avoid contact with the eyes and skin.

· Breathing equipment: Not required.

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Protection of hands:	(Contd. of page
Protective gloves.	
The protective gloves to be used m EEC and the resultant standard EN	nust comply with the specifications of the EC directive 89/686/
This recommendation applies only	to the product stated in the Safety Data Sheet and supplied by a
as well as to the purpose specified	
Only use chemical-protective glove Material of gloves	es with CE-labelling of category III.
Thickness Breakthroug	nh time
(mm)	(min)
Nitril rubber 0,38	> 480
Neoprene 0,65	> 240
Butyl rubber 0,36	> 480
Avoid natural rubber gloves.	
	ves made of the following materials are suitable:
Synthetic gloves	
Value for permeation: Level:	
≥ 3 (60 min)	
Eye protection: Safety glasses	
Lyc protection: Dalety glasses	
9.1 Information on basic physica General Information	al and chemical properties
Appearance:	Eluid
Appearance: Form:	Fluid
Appearance: Form: Colour:	Colourless
Appearance: Form: Colour: Odour:	Colourless Not characteristic
Appearance: Form: Colour: Odour: pH-value at 25 °C:	Colourless
Appearance: Form: Colour: Odour: pH-value at 25 °C: Change in condition	Colourless Not characteristic 10,9
Appearance: Form: Colour: Odour: pH-value at 25 °C: Change in condition Melting point/freezing point:	Colourless Not characteristic 10,9 < 5 °C
Appearance: Form: Colour: Odour: pH-value at 25 °C: Change in condition	Colourless Not characteristic 10,9 < 5 °C
Appearance: Form: Colour: Odour: pH-value at 25 °C: Change in condition Melting point/freezing point:	Colourless Not characteristic 10,9 < 5 °C
Appearance: Form: Colour: Odour: pH-value at 25 ℃: Change in condition Melting point/freezing point: Initial boiling point and boiling	Colourless Not characteristic 10,9 < 5 ℃ range: > 100 ℃
Appearance: Form: Colour: Odour: pH-value at 25 °C: Change in condition Melting point/freezing point: Initial boiling point and boiling Flash point:	Colourless Not characteristic 10,9 < 5 °C  range: > 100 °C Not applicable
Appearance: Form: Colour: Odour: pH-value at 25 °C: Change in condition Melting point/freezing point: Initial boiling point and boiling Flash point: Ignition temperature:	Colourless Not characteristic 10,9 $< 5 \ ^{\circ}C$ $< 100 \ ^{\circ}C$ Not applicable $345 \ ^{\circ}C$
Appearance: Form: Colour: Odour: pH-value at 25 °C: Change in condition Melting point/freezing point: Initial boiling point and boiling Flash point: Ignition temperature: Self-inflammability: Explosive properties: Critical values for explosion:	Colourless Not characteristic $10,9$ $< 5 \ ^{\circ}C$ range: > 100 \ ^{\circ}CNot applicable $345 \ ^{\circ}C$ Product is not selfigniting.Product is not explosive.
Appearance: Form: Colour: Odour: pH-value at 25 °C: Change in condition Melting point/freezing point: Initial boiling point and boiling Flash point: Ignition temperature: Self-inflammability: Explosive properties:	Colourless Not characteristic 10,9 $< 5 \ ^{\circ}C$ $< 100 \ ^{\circ}C$ Not applicable $345 \ ^{\circ}C$ Product is not selfigniting.
Appearance: Form: Colour: Odour: pH-value at 25 °C: Change in condition Melting point/freezing point: Initial boiling point and boiling Flash point: Ignition temperature: Self-inflammability: Explosive properties: Critical values for explosion:	Colourless Not characteristic $10,9$ $< 5 \ ^{\circ}C$ range: > 100 \ ^{\circ}CNot applicable $345 \ ^{\circ}C$ Product is not selfigniting.Product is not explosive.



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· Solubility in / Miscibility with	
Water:	miscible
· Viscosity:	
dynamic:	Not determined
kinematic:	Not determined
· Solvent content:	
Organic solvents:	~ 7 %
Water:	~ 50 %
· 9.2 Other information	No further relevant information available.

# **SECTION 10: Stability and reactivity**

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability

• Thermal decomposition / conditions to be avoided:

- No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions
  - Reacts with strong acids

Reacts with acids releasing sulphur dioxide

- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.

· 10.6 Hazardous decomposition products: No dangerous decomposition products known

## **SECTION 11: Toxicological information**

· 11.1 Information on toxicological effects

• Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values that are relevant for classification:

е

Oral LD50 > 2000 mg/kg (rat)

6381-77-7 sodium isoascorbate

Oral LD50 > 5000 mg/kg (rat)

### 111-46-6 2,2'-oxybisethanol

Oral LD50 12565 mg/kg (rat)

Dermal LD50 11890 mg/kg (rabbit)

- 13047-13-7 4-(hydroxymethyl)-4-methyl-1-phenylpyrazolidin-3-one
- Oral LD50 565 mg/kg (rat)
- Dermal LD50 > 2000 mg/kg (rat)
- · Primary irritant effect:
- · Skin corrosion/irritation
- Causes skin irritation.
- · Serious eye damage/irritation

Causes serious eye irritation.

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(Contd. of page 6) · Respiratory or skin sensitisation Based on available data, the classification criteria are not met. · Subacute to chronic toxicity: No known symptoms to date. · Additional toxicological information: This statement was deduced from the properties of the single components. · Acute effects (acute toxicity, irritation and corrosivity) Irritating to eyes, respiratory system and skin. · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) · Germ cell mutagenicity Based on available data, the classification criteria are not met. · Carcinogenicity Based on available data, the classification criteria are not met. · Reproductive toxicity Based on available data, the classification criteria are not met. · STOT-single exposure May cause respiratory irritation. · STOT-repeated exposure Based on available data, the classification criteria are not met. · Aspiration hazard Based on available data, the classification criteria are not met. **SECTION 12: Ecological information** · 12.1 Toxicity · Aquatic toxicity: 584-08-7 potassium carbonate EC50/48 h 380-820 mg/l (Daphnia magna) LC50/96 h 310-750 mg/l (Pimephales promelas) 111-46-6 2,2'-oxybisethanol EC50/48 h > 10000 mg/l (Daphnia magna) LC50/96 h 75200 mg/l (Pimephales promelas) 13047-13-7 4-(hydroxymethyl)-4-methyl-1-phenylpyrazolidin-3-one LC50/96 h 1 - 10 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. · Behaviour in sewage processing plants: Not determined · Additional ecological information: · General notes:

At present there are no ecotoxicological assessments.

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

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

- · 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.

SECTION 14: Transport information	n	
· 14.1 UN-Number · ADR/RID, ADN, IMDG, IATA	Void	
<ul> <li>14.2 UN proper shipping name</li> <li>ADR/RID</li> <li>ADN, IMDG, IATA</li> </ul>	Void Void	
· 14.3 Transport hazard class(es)		
<ul> <li>ADR/RID, ADN, IMDG, IATA</li> <li>Class</li> </ul>	Void	
<ul> <li>14.4 Packing group</li> <li>ADR/RID, IMDG, IATA</li> </ul>	Void	
<ul> <li>14.5 Environmental hazards:</li> <li>Marine pollutant:</li> </ul>	No	
· 14.6 Special precautions for user	Not applicable.	
<ul> <li>14.7 Transport in bulk according to An of Marpol and the IBC Code</li> </ul>	nex II Not applicable.	
· Transport/Additional information:	Not dangerous according to the above specifications.	
· UN "Model Regulation":	Void	

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### **SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

· National regulations

Class	Share in %
NK	6.4

• 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**

H302 Harmful if swallowed.

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H411 Toxic to aquatic life with long lasting effects.

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

#### · Department issuing data specification sheet:

- Laboratory
- Tel.: +49 (0)39291 425-15 • 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)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Acute Tox. 4: Acute toxicity Category 4
- Skin Irrit. 2: Skin corrosion/irritation Category 2
- Eye Dam. 1: Serious eye damage/eye irritation Category 1
- Eye Irrit. 2: Serious eye damage/eye irritation Category 2
- Skin Sens. 1: Skin sensitisation Category 1
- STOT SE 3: Specific target organ toxicity (single exposure) Category 3

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

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· Sources

applicable EEC directives:

- 1907/2006

- 1272/2008

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

• \* Data compared to the previous version altered.