

## SAFETY DATA SHEET

# ADOFLO II

### SECTION 1: IDENTIFICATION

#### 1.1. Product identifier

*Trade name:* ADOFLO II

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

*Relevant identified uses of the substance or mixture:* Chemistry for analog photography

*Uses advised against:* None known.

#### 1.3. Details of the supplier of the safety data sheet

*Company and address:* **ADOX Fotowerke GmbH**  
Pieskower Str. 30 A  
15526 Bad Saarow  
Deutschland  
+49 (0)33631 6459-25  
<https://www.adox.de>

*E-mail:* [info@adox.de](mailto:info@adox.de)

*SDS date:* 11/22/2024

*SDS Version:* 1.0

#### 1.4. Emergency telephone number

Contact the poison control at 1-800-222-1222 (24/7) or use the webPOISONCONTROL® ([triage.webpoisoncontrol.org](https://www.webpoisoncontrol.org)) to get specific guidance for your case  
See also section 4 "First aid measures".

### SECTION 2: HAZARD(S) IDENTIFICATION

#### OSHA/HCS status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

#### 2.1. Classification of the substance or mixture

Skin Sens. 1; H317, May cause an allergic skin reaction.  
Eye Irrit. 2; H319, Causes serious eye irritation.

#### 2.2. Label elements

*Hazard pictogram(s):*



*Signal word:*

Warning

*Hazard statement(s):*

May cause an allergic skin reaction. (H317)  
Causes serious eye irritation. (H319)

*Precautionary statement(s):*

<i>General:</i>	If medical advice is needed, have product container or label at hand. (P101) Keep out of reach of children. (P102)
<i>Prevention:</i>	Avoid breathing mist/vapour. (P261) Wash hands thoroughly after handling. (P264) Wear eye protection/protective gloves/protective clothing. (P280)
<i>Response:</i>	IF ON SKIN: Wash with plenty of water and soap. (P302+P352) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338) If skin irritation or rash occurs: Get medical advice/attention. (P333+P313) If eye irritation persists: Get medical advice/attention. (P337+P313) Take off contaminated clothing and wash it before reuse. (P362+P364)
<i>Storage:</i>	-
<i>Disposal:</i>	Dispose of contents/container in accordance with local regulation (P501)
<i>Additional labelling:</i>	Not applicable.

## 2.3. Other hazards

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

Not applicable. This product is a mixture.

### 3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
Isotridecanol, ethoxylated	CAS No.: 9043-30-5	1-3%	Acute Tox. 4, H302 Eye Dam. 1, H318	
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	CAS No.: 55965-84-9	<0.05%	Acute Tox. 3, H301 Acute Tox. 2, H310 Skin Corr. 1C, H314 (SCL: 0.60 %) Skin Irrit. 2, H315 (SCL: 0.06 %) Skin Sens. 1A, H317 (SCL: 0.0015 %) Eye Dam. 1, H318 (SCL: 0.60 %) Eye Irrit. 2, H319 (SCL: 0.06 %) Acute Tox. 2, H330 1, HHNOC071	

Where the concentration of an ingredient is expressed as a range the exact concentration has

been withheld as a trade secret.

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

## Other information

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## SECTION 4: FIRST-AID MEASURES

### 4.1. Description of first aid measures

#### *General information:*

If breathing is irregular, drowsiness, loss of consciousness or cramps: Call 911 and give immediate treatment (first aid).

Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

#### *Inhalation:*

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

#### *Skin contact:*

Upon irritation: rinse with water. In the event of continued irritation, seek medical assistance.

#### *Eye contact:*

If in eyes: Flush eyes immediately with plenty of water or isotonic water (20-30 °C) for at least 5 minutes and continue until irritation stops. Remove contact lenses. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.

#### *Ingestion:*

If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink.

In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.

#### *Burns:*

Not applicable.

### 4.2. Most important symptoms and effects, both acute and delayed

Sensitisation: This product contains substances, which may trigger allergic reaction upon dermal contact. Manifestation of allergic reactions typically takes place within 12-72 hours after exposure.

### 4.3. Indication of any immediate medical attention and special treatment needed

If eye irritation persists: Get medical advice/attention.

### Information to medics

Bring this safety data sheet or the label from this product.

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing media

Not applicable.

## 5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

## 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the Poison Help Line on 1-800-222-1222 (24/7) in order to obtain further advice.

# SECTION 6: ACCIDENTAL RELEASE MEASURES

## 6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.  
Contaminated areas may be slippery.

## 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.  
Keep unauthorized persons away from the spill

## 6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

## 6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.  
See section 8 "Exposure controls/personal protection" for protective measures.

# SECTION 7: HANDLING AND STORAGE

## 7.1. Precautions for safe handling

Smoking, drinking and consumption of food is not allowed in the work area.  
See section 8 "Exposure controls/personal protection" for information on personal protection.

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

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

*Recommended storage material:*

Always store in containers of the same material as the original container.

*Storage conditions:*

No specific requirements

*Incompatible materials:*

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

## 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1. Control parameters

No substances are listed with a permissible exposure limit (ref: 29 CFR 1910.1000 TABLE Z-1)

## 8.2. Exposure controls

Apply general control to prevent unnecessary exposure

*General recommendations:* Smoking, drinking and consumption of food is not allowed in the work area.

*Exposure scenarios:* There are no exposure scenarios implemented for this product.

*Exposure limits:* Occupational exposure limits have not been defined for the substances in this product.

*Appropriate technical measures:* Apply standard precautions during use of the product. Avoid inhalation of vapours.

*Hygiene measures:* In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.


*Measures to avoid environmental exposure:* No specific requirements.

## Individual protection measures, such as personal protective equipment


*Generally:* Use only protective equipment with a recognized certification mark, e.g. the UL mark.

*Respiratory Equipment:*  
No specific requirements


*Skin protection:*

Recommended	Type/Category	Standards	
Wear appropriate protection clothing, e.g. coveralls in polypropylene or working clothes in cotton or polyester.	-	-	

*Hand protection:*

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Nitrile	0,38	> 480	EN374-2, EN374-3, EN388	

*Eye protection:*

Type	Standards	
Safety glasses with side shields.	EN166	

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

<i>Physical state:</i>	Liquid
<i>Color:</i>	Colourless
<i>Odor:</i>	No relevant or available data due to the nature of the product.
<i>Odor threshold (ppm):</i>	No relevant or available data due to the nature of the product.
<i>pH:</i>	No relevant or available data due to the nature of the product.
<i>Density (g/cm<sup>3</sup>):</i>	No relevant or available data due to the nature of the product.
<i>Kinematic viscosity:</i>	No relevant or available data due to the nature of the product.
<i>Particle characteristics:</i>	Does not apply to liquids.

## Phase changes

<i>Melting point/freezing point (°F):</i>	No relevant or available data due to the nature of the product.
<i>Softening point/range (°F):</i>	Does not apply to liquids.
<i>Boiling point (°F):</i>	No relevant or available data due to the nature of the product.
<i>Vapor pressure:</i>	No relevant or available data due to the nature of the product.
<i>Relative vapor density:</i>	No relevant or available data due to the nature of the product.
<i>Decomposition temperature (°F):</i>	No relevant or available data due to the nature of the product.

## Data on fire and explosion hazards

<i>Flash point (°F):</i>	No relevant or available data due to the nature of the product.
<i>Flammability (°F):</i>	No relevant or available data due to the nature of the product.
<i>Auto-ignition temperature (°F):</i>	No relevant or available data due to the nature of the product.
<i>Explosion limits (% v/v):</i>	No relevant or available data due to the nature of the product.

## Solubility

<i>Solubility in water:</i>	No relevant or available data due to the nature of the product.
<i>n-octanol/water coefficient (LogKow):</i>	No relevant or available data due to the nature of the product.
<i>Solubility in fat (g/L):</i>	No relevant or available data due to the nature of the product.

## 9.2. Other information

<i>Other physical and chemical parameters:</i>	No data available.
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*Oxidizing properties:*

No relevant or available data due to the nature of the product.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

### 10.3. Possibility of hazardous reactions, including those associated with foreseeable emergencies

None known.

### 10.4. Conditions to avoid

None known.

### 10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### Acute toxicity

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

#### Skin corrosion/irritation

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

#### Serious eye damage/irritation

Causes serious eye irritation.

#### Respiratory sensitisation

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

#### Skin sensitisation

May cause an allergic skin reaction.

#### Germ cell mutagenicity

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

#### Carcinogenicity

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

#### Reproductive toxicity

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

#### STOT-single exposure

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

#### STOT-repeated exposure

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

#### Aspiration hazard

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

### Long term effects

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

### Other information

None known.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Product/substance	Isotridecanol, ethoxylated
Species:	Fish, <i>Leuciscus idus</i>
Duration:	96 hours
Test:	LC50
Result:	100 mg/L

Product/substance	Isotridecanol, ethoxylated
Species:	Algae
Duration:	72 hours
Test:	EC50
Result:	100 mg/L

### 12.2. Persistence and degradability

Product/substance	Isotridecanol, ethoxylated
Result:	>60 %
Conclusion:	Readily biodegradable
Test:	OECD 301 B

### 12.3. Bioaccumulative potential

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

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

### 12.6. Other adverse effects

None known.

## SECTION 13: DISPOSAL CONSIDERATIONS

### RCRA Hazardous waste ("P" and "U" list) (40 CFR 261)

None of the components are listed

### Specific labelling

### Contaminated packing

## SECTION 14: TRANSPORT INFORMATION



	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other informat ion:
DOT	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-

\* Packing group

\*\* Environmental hazards

#### Additional information

Not dangerous goods according to DOT, IATA and IMDG.

#### 14.6. Special precautions for user

Not applicable.

#### 14.7. Transport in bulk according to IMO instruments

No data available.

### SECTION 15: REGULATORY INFORMATION

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

#### 15.2. U.S. Federal regulations

<i>TSCA (the non-confidential portion):</i>	Isotridecanol, ethoxylated is listed
<i>Clean Air Act:</i>	None of the components are listed
<i>EPCRA Section 302:</i>	None of the components are listed
<i>EPCRA Section 304:</i>	None of the components are listed
<i>EPCRA section 313:</i>	None of the components are listed
<i>CERCLA:</i>	None of the components are listed
<i>Hazardous chemical inventory reporting:</i>	This product is subject to Tier II reporting.

#### State regulations

<i>California / Prop. 65:</i>	None of the components are listed
<i>Massachusetts / Right To Know Act:</i>	None of the components are listed
<i>New Jersey / Right To Know Act:</i>	None of the components are listed
<i>New York / Right To Know Act:</i>	None of the components are listed
<i>Pennsylvania / Right To Know Act:</i>	None of the components are listed

#### 15.4. Restrictions for application

No special.

#### 15.5. Demands for specific education

No specific requirements.

#### 15.6. Additional information

Not applicable.

#### 15.7. Chemical safety assessment

No

## 15.8. Sources

OSHA Hazard Communication Standard (29 CFR 1910.1200)

## SECTION 16: OTHER INFORMATION

### Full text of H-phrases as mentioned in section 3

H301, Toxic if swallowed.  
H302, Harmful if swallowed.  
H310, Fatal in contact with skin.  
H314, Causes severe skin burns and eye damage.  
H315, Causes skin irritation.  
H317, May cause an allergic skin reaction.  
H318, Causes serious eye damage.  
H319, Causes serious eye irritation.  
H330, Fatal if inhaled.  
HHNOC071, Corrosive to the respiratory tract.

### The full text of identified uses as mentioned in section 1

None known.

### Abbreviations and acronyms

ACGIH = American Conference of Governmental Industrial Hygienists  
ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway  
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road  
ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
CAS = Chemical Abstracts Service  
CERCLA = Comprehensive Environmental Response Compensation and Liability Act  
DOT = Department of Transportation  
EINECS = European Inventory of Existing Commercial chemical Substances  
EPCRA = Emergency Planning and Community Right-To-Know Act  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
HCIS = Hazardous Chemical Information System  
HNOC = Hazards Not Otherwise Classified  
IARC = International Agency for Research on Cancer  
IATA = International Air Transport Association  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
NFPA = National Fire Protection Association  
NIOSH = National Institute for Occupational Safety and Health  
OECD = Organisation for Economic Co-operation and Development  
OSHA = Occupational Safety and Health Administration  
PBT = Persistent, Bioaccumulative and Toxic  
RCRA = Resource Conservation and Recovery Act  
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
RRN = REACH Registration Number  
SARA = Superfund Amendments and Reauthorization Act  
SCL = A specific concentration limit.  
STEL = Short-term exposure limits  
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

TSCA = The Toxic Substances Control Act

TWA = Time weighted average

UN = United Nations

UVBC = Unknown or variable composition, complex reaction products or of biological materials

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

### **Additional information**

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by HCS (29 CFR 1910.1200).

### **The safety data sheet is validated by**

KL

### **Other**

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product.

Information in this safety data sheet cannot be used as a product specification.

Country-language: US-en