

## Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 06/03/2015

Reviewed on 06/03/2015

### 1 Identification

- **Product identifier**
- **Trade name:** Acufine Film Developer
- **Product number:** AFD-32; AFD-128
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Product description** Developer for black and white film.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
OmegaBrandess Distribution  
626 Hanover Pike Suite 102  
Hampstead, MD 21074  
Ph: 410-374-3250  
Fx: 410-374-3184
- **Emergency telephone number:** Chemtrec 800-424-9300

### 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS08 Health hazard

Muta. 2      H341 Suspected of causing genetic defects.



GHS05 Corrosion

Eye Dam. 1      H318 Causes serious eye damage.



GHS09 Environment

Aquatic Acute 1      H400 Very toxic to aquatic life.



GHS07

Acute Tox. 4      H302 Harmful if swallowed.

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

- **Label elements**
- **GHS label elements**  
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS05



GHS07



GHS08



GHS09

- **Signal word** Danger
- **Hazard-determining components of labeling:**  
Trade Secret

(Contd. on page 2)

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**Trade name: Acufine Film Developer**

· **Hazard statements**

Harmful if swallowed.  
Causes serious eye damage.  
May cause an allergic skin reaction.  
Suspected of causing genetic defects.  
Very toxic to aquatic life.

· **Precautionary statements**

Avoid breathing dust/fume/gas/mist/vapors/spray.  
Wear protective gloves.  
Wear eye protection / face protection.  
Avoid release to the environment.  
Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Contaminated work clothing must not be allowed out of the workplace.  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
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.  
If swallowed: Call a poison center/doctor if you feel unwell.  
Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).  
Wash contaminated clothing before reuse.  
IF exposed or concerned: Get medical advice/attention.  
If skin irritation or rash occurs: Get medical advice/attention.  
Rinse mouth.  
If on skin: Wash with plenty of water.  
Collect spillage.  
Store locked up.  
Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Unknown acute toxicity:**

7 percent of the mixture consists of ingredient(s) of unknown toxicity.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



· **HMIS-ratings (scale 0 - 4)**

HEALTH	2	Health = *2
FIRE	0	Fire = 0
REACTIVITY	0	Reactivity = 0

· **Hazard(s) not otherwise classified (HNOC):** None known

### 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

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

(Contd. on page 3)

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<b>· Dangerous Components:</b>	
Trade Secret	4.4%
⚠ Eye Irrit. 2, H319	
Trade Secret	3.2%
⚠ Muta. 2, H341; ⚠ Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400; ⚠ Acute Tox. 4, H302; Skin Sens. 1, H317	

### 4 First-aid measures

- **Description of first aid measures**
- **General information:**  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation:** In case of unconsciousness, place patient securely on side position for transportation.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
If skin irritation occurs, consult a doctor.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Immediately call a doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed:** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:**  
As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:**  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Dispose contaminated material as waste according to section 13.  
Dispose of the collected material according to regulations.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### 7 Handling and storage

- **Handling:**
- **Precautions for safe handling** No special precautions are necessary if used correctly.

(Contd. on page 4)

## Safety Data Sheet (SDS)

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- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

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

· **Components with occupational exposure limits:**

**Trade Secret**

PEL	Long-term value: 2 mg/m <sup>3</sup>
REL	Ceiling limit value: 2* mg/m <sup>3</sup> *15-min
TLV	Long-term value: 1 mg/m <sup>3</sup> DSEN

- **Additional information:** The lists that were valid during the creation of this SDS were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing and wash before reuse.  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes.
- **Breathing equipment:** Not required.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
Select glove material based on penetration times, rates of diffusion and degradation.

· **Material of gloves**

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

· **Penetration time of glove material**

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

(Contd. on page 5)

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**Trade name: Acufine Film Developer**

· **Eye protection:**



Tightly sealed goggles

### 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

**Form:**

Granulate

**Color:**

White

· **Odor:**

Odorless

· **Odor threshold:**

Not determined.

· **pH-value:**

Not applicable.

· **Change in condition**

**Melting point/Melting range:**

Not determined.

**Boiling point/Boiling range:**

Not determined.

· **Flash point:**

Not applicable.

· **Flammability (solid, gaseous):**

Not determined.

· **Ignition temperature:**

**Decomposition temperature:**

Not determined.

· **Auto igniting:**

Product is not self-igniting.

· **Danger of explosion:**

Product does not present an explosion hazard.

· **Explosion limits:**

**Lower:**

Not determined.

**Upper:**

Not determined.

· **Vapor pressure:**

Not applicable.

· **Density:**

**Relative density**

Not determined.

**Vapor density**

Not applicable.

**Evaporation rate**

Not applicable.

· **Solubility in / Miscibility with**

**Water:**

Insoluble.

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

· **Viscosity:**

**Dynamic:**

Not applicable.

**Kinematic:**

Not applicable.

· **Solvent content:**

**Organic solvents:**

0.0 %

**Solids content:**

100.0 %

· **Other information**

No further relevant information available.

(Contd. on page 6)

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### 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

<b>Trade Secret</b>		
Oral	LD50	4090 mg/kg (rat)
Inhalative	LC50/96 hours	300 mg/l (Fathead Minnow)
<b>Trade Secret</b>		
Oral	LD50	320 mg/kg (rat)

- **Primary irritant effect:**
- **on the skin:** Emissions from broken bulbs may cause an allergic skin reaction.
- **on the eye:**  
Strong irritant with the danger of severe eye injury.  
Causes serious eye irritation.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Harmful  
Irritant

· **Carcinogenic categories**

<b>IARC (International Agency for Research on Cancer)</b>	
Trade Secret	3
<b>NTP (National Toxicology Program)</b>	
None of the ingredients are listed.	
<b>OSHA-Ca (Occupational Safety &amp; Health Administration)</b>	
None of the ingredients are listed.	

### 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:**  
Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

<b>Trade Secret</b>	
EC50	227 mg/l (daphnia)

- **Persistence and degradability** No further relevant information available.

(Contd. on page 7)

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Issue date 06/03/2015

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**Trade name: Acufine Film Developer**

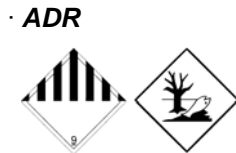
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Very toxic for fish
- **Additional ecological information:**
- **General notes:**  
 Water hazard class 3 (Self-assessment): extremely hazardous for water  
 Do not allow product to reach ground water, water course or sewage system, even in small quantities.  
 Danger to drinking water if even extremely small quantities leak into the ground.  
 Poisonous for fish and plankton in water bodies.  
 Very toxic for aquatic organisms
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
 Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

- **UN-Number**
- **DOT** Non-Regulated Material
- **ADR, IMDG, IATA** UN3077
- **UN proper shipping name**
- **DOT** Non-Regulated Material
- **ADR** UN3077 Environmentally hazardous substances, solid, n.o.s. (Trade Secret)
- **IMDG** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Trade Secret), MARINE POLLUTANT
- **IATA** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Trade Secret)
- **Transport hazard class(es)**
- **DOT**
- **Class** Non-Regulated Material



- **Class** 9 (M7) Miscellaneous dangerous substances and articles  
 (Contd. on page 8)




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<ul style="list-style-type: none"> <li>· <b>Label</b></li> </ul>	9
<ul style="list-style-type: none"> <li>· <b>IMDG, IATA</b></li> </ul>	
	
<ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> <li>· <b>Packing group</b></li> <li>· <b>DOT</b></li> <li>· <b>ADR, IMDG, IATA</b></li> <li>· <b>Environmental hazards:</b></li> <li>· <b>Special marking (ADR):</b></li> <li>· <b>Special marking (IATA):</b></li> <li>· <b>Special precautions for user</b></li> <li>· <b>Danger code (Kemler):</b></li> <li>· <b>EMS Number:</b></li> <li>· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b></li> <li>· <b>Transport/Additional information:</b></li> </ul>	9 Miscellaneous dangerous substances and articles 9 Non-Regulated Material III Product contains environmentally hazardous substances: Trade Secret Symbol (fish and tree) Symbol (fish and tree) Warning: Miscellaneous dangerous substances and articles 90 F-A,S-F Not applicable.
<ul style="list-style-type: none"> <li>· <b>ADR</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul>	Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
<ul style="list-style-type: none"> <li>· <b>IMDG</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul>	
<ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>	5 kg Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g UN3077, Environmentally hazardous substances, solid, n.o.s. (Trade Secret), 9, III

**15 Regulatory information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

<ul style="list-style-type: none"> <li>· <b>Section 355 (extremely hazardous substances):</b></li> </ul>	Trade Secret
<ul style="list-style-type: none"> <li>· <b>Section 313 (Specific toxic chemical listings):</b></li> </ul>	Trade Secret
<ul style="list-style-type: none"> <li>· <b>TSCA (Toxic Substances Control Act):</b></li> </ul>	All ingredients are listed.
<ul style="list-style-type: none"> <li>· <b>California Proposition 65</b></li> </ul>	
<ul style="list-style-type: none"> <li>· <b>Chemicals known to cause cancer:</b></li> </ul>	None of the ingredients are listed.

(Contd. on page 9)



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· <b>Chemicals known to cause reproductive toxicity for females:</b>	
None of the ingredients are listed.	
· <b>Chemicals known to cause reproductive toxicity for males:</b>	
None of the ingredients are listed.	
· <b>Chemicals known to cause developmental toxicity:</b>	
None of the ingredients are listed.	
· <b>Carcinogenic categories</b>	
· <b>EPA (Environmental Protection Agency)</b>	
None of the ingredients are listed.	
· <b>TLV (Threshold Limit Value established by ACGIH)</b>	
Trade Secret	A3
· <b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b>	
None of the ingredients are listed.	

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS05   GHS07   GHS08   GHS09

· **Signal word** Danger

· **Hazard-determining components of labeling:**

Trade Secret

· **Hazard statements**

- Harmful if swallowed.
- Causes serious eye damage.
- May cause an allergic skin reaction.
- Suspected of causing genetic defects.
- Very toxic to aquatic life.

· **Precautionary statements**

- Avoid breathing dust/fume/gas/mist/vapors/spray.
- Wear protective gloves.
- Wear eye protection / face protection.
- Avoid release to the environment.
- Wash thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Contaminated work clothing must not be allowed out of the workplace.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- 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.
- If swallowed: Call a poison center/doctor if you feel unwell.
- Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
- Wash contaminated clothing before reuse.
- IF exposed or concerned: Get medical advice/attention.

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If skin irritation or rash occurs: Get medical advice/attention.  
 Rinse mouth.  
 If on skin: Wash with plenty of water.  
 Collect spillage.  
 Store locked up.  
 Dispose of contents/container in accordance with local/regional/national/international regulations.

<ul style="list-style-type: none"> <li><b>National regulations:</b></li> </ul>	
<p>The product is subject to be classified according with the latest version of the regulations on hazardous substances.</p>	
<ul style="list-style-type: none"> <li><b>State Right to Know</b></li> </ul>	
Trade Secret	4.4%
⚠ Eye Irrit. 2, H319	
Trade Secret	3.2%
⚠ Muta. 2, H341; ⚠ Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400; ⚠ Acute Tox. 4, H302; Skin Sens. 1, H317	
All ingredients are listed.	
<ul style="list-style-type: none"> <li><b>Chemical safety assessment:</b> A Chemical Safety Assessment has not been carried out.</li> </ul>	

### 16 Other information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

- **Date of preparation / last revision** 06/03/2015 / -
- **Abbreviations and acronyms:**  
 ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road  
 ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
 IMDG: International Maritime Code for Dangerous Goods  
 DOT: US Department of Transportation  
 IATA: International Air Transport Association  
 ACGIH: American Conference of Governmental Industrial Hygienists  
 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)  
 NFPA: National Fire Protection Association (USA)  
 HMIS: Hazardous Materials Identification System (USA)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 Acute Tox. 4: Acute toxicity, Hazard Category 4  
 Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1  
 Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2  
 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1  
 Muta. 2: Germ cell mutagenicity, Hazard Category 2  
 Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1
- **\* Data compared to the previous version altered.**  
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