

ADC SCREEN CLEANER

SUBID:000000009223

Version 1
Revision Date 11-20-2006

Print Date 11-29-2006

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Identification of the substance/preparation

Product name : ADC SCREEN CLEANER
 MSDS Number : 000000009223
 Use of the Substance/Preparation : Storage phosphor screen cleaner
 Product code : EBG1, EFOJH
 Business group : MI

Company/Undertaking Identification

Agfa Corporation
 100 Challenger Road
 Ridgefield Park, NJ 07660
 U.S.A.

Transport Emergency
 Call CHEMTREC : +1 800 4249300
 International : +1 703 5273887

Non-transportation
 Health Emergency Phone : +1 303 6235716
 Agfa Information Phone : +1 201 4402500

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

Storage phosphor screen cleaner, mainly consisting of:

	<u>CAS-No.</u>	<u>Concentration [%]</u>
• Ethanol	64-17-5	>= 80.0 - <= 100.0
• Methyl ethyl ketone	78-93-3	>= 1.0 - <= 5.0

SECTION 3. HAZARDS IDENTIFICATION

The product as a whole has not been tested. This hazard information is for the individual ingredients.

Emergency Overview

Form : Liquid
 Colour : Colourless.
 Odour : Alcoholic odour

WARNING !

Use cold water spray to cool fire-exposed containers to minimize the risk of rupture.
 Flammable.
 Harmful if inhaled. Inhalation may cause nausea or dizziness. May cause respiratory tract irritation.
 May cause skin irritation. May cause eye irritation. Harmful if swallowed.

Potential Health Effects

Primary Routes of Entry : Skin contact. Eye contact. Ingestion. Inhalation.
 Aggravated Medical Condition : Persons with preexisting eye, skin or respiratory tract disorders may be more susceptible to the effects of this product.

Acute health effects

Inhalation

- Ethanol : May be irritating to the mucous membranes and the respiratory tract with symptoms of coughing and nasal discharge. High concentrations can cause central nervous system depression with symptoms of nausea, dizziness, fatigue, weakness and headache.
- Methyl ethyl ketone : May cause nervous system effects which can include symptoms of dizziness, incoordination, headache, numbness, and/or confusion.

Skin contact

- Ethanol : May cause irritation resulting in reddening, drying and itching.
- Methyl ethyl ketone : May cause irritation resulting in reddening, drying and itching. If sufficient amounts are absorbed, symptoms similar to those described in acute inhalation may occur.

Eye contact

- Ethanol : May be irritating to the eyes with symptoms of reddening, tearing and stinging.
- Methyl ethyl ketone : Can be irritating to the eyes with symptoms of tearing, stinging, reddening, and swelling. May cause slight corneal injury.

Ingestion

- Ethanol : May cause central nervous system depression with symptoms of headache, dizziness, confusion or coma.
- Methyl ethyl ketone : Vomiting may cause aspiration of material resulting in chemical pneumonitis. Symptoms of ingestion may include abdominal pain, nausea, vomiting, and diarrhea. May cause nervous system effects which can include symptoms of dizziness, incoordination, headache, numbness, and/or confusion.

Chronic health hazards

Inhalation

- Ethanol : Chronic exposure to organic solvents has been associated with various neurotoxic effects, including permanent brain and nervous system damage. Symptoms include loss of memory, loss of intellectual ability and loss of coordination.

Skin contact

- Methyl ethyl ketone : Chronic intensive skin contact may cause dermatitis.

Carcinogenicity

No carcinogenic substances as defined by IARC, NTP and/or OSHA.

SECTION 4. FIRST AID MEASURES

- Eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- Skin contact : Wash immediately with plenty of water and soap. If symptoms persist, seek medical advice.
- Ingestion : Rinse mouth with plenty of water. Seek medical advice.
- Inhalation : Take person to fresh air. If necessary, seek medical advice.

SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : e.g. water, CO₂, foam, powder, sand
- Special protective equipment for fire-fighters : Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : See section 8.
Environmental precautions : For waste disposal see section 13.
Methods for cleaning up : Dike the spill if necessary. Soak up with absorbent material. Collect large spills into a properly labelled and sealable container. Prevent release into the drain, soil or surface water.
Additional advice : Wash away residues with plenty of water.

SECTION 7. HANDLING AND STORAGE

Handling

- Advice on protection against fire and explosion : Keep away from heat and sources of ignition.

Storage

- Advice on common storage : Store away from oxidizing agents.
Requirements for storage areas and containers : Keep container tightly closed. Protect from direct sunlight.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limit Values (US)

Components	CAS-No.	Values	Type	Revision Date	Basis
Ethanol	64-17-5	1,000 ppm	TWA	2002	ACGIH
		1,900 mg/m ³	PEL	06 1993	OSHA Z1
		1,900 mg/m ³	TWA	1989	OSHA Z1A
Methyl ethyl ketone	78-93-3	200 ppm	TWA	2002	ACGIH
		300 ppm	STEL	2002	ACGIH
		590 mg/m ³	PEL	06 1993	OSHA Z1
		590 mg/m ³	TWA	1989	OSHA Z1A
		885 mg/m ³	STEL	1989	OSHA Z1A

Exposure controls

- Hygiene measures : Observe normal precautions when handling chemicals. Avoid inhaling vapour. Keep away from foodstuffs, drinks and tobacco.
Hand protection : Use chemical resistant gloves. In case of prolonged immersion or frequently repeated contact use gloves made of the materials: butyl rubber (thickness \geq 0.36 mm, breakthrough time $>$ 480 min), nitrile rubber (thickness \geq 0.38 mm, breakthrough time $>$ 480 min) or neoprene (thickness \geq 0.65 mm, breakthrough time $>$ 240 min). For intermittent splash protection corresponding gloves with breakthrough times $>$ 60 min can be used. Avoid gloves made of: natural latex.
Eye protection : Safety glasses.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Form : Liquid
Colour : Colourless.
Odour : Alcoholic odour
Vapour pressure : 58.50 hPa at 20 °C (68 °F)
Relative density : 0.788 at 20 °C (68 °F)
pH : Not applicable
Melting point/range : -120 to -110 °C (-184 to -166 °F)

Boiling point/range	: 73 to 83 °C (163 to 181 °F)
Relative vapour density	: 1.6900
Flash point	: 14 °C (57 °F)
VOC content	: 99 %
	VOC content excluding water

SECTION 10. STABILITY AND REACTIVITY

Stability	: The product is stable under normal conditions of storage and use.
Hazardous decomposition products	: Hazardous decomposition products None
Thermal decomposition	: Not applicable
Conditions to avoid	: Avoid contact with strong oxidizing agents.

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicity data specific for individual ingredients in their pure state:

Acute oral toxicity

• Ethanol	: LD50 rat	7,060 mg/kg
• Methyl ethyl ketone	: LD50 rat	2,737 mg/kg

Acute inhalation toxicity

• Ethanol	: LC50 rat	> 8,000 mg/l/ 4 h
• Methyl ethyl ketone	: LC50 rat	23.5 mg/l/ 8 h

Acute dermal toxicity

• Ethanol	: LDLO rabbit	20,000 mg/kg
• Methyl ethyl ketone	: LD50 rabbit	6,480 mg/kg

Other information

Hazard labelling of this preparation: see section 15.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Ecotoxicity data specific for individual ingredients in their pure state: Ecotoxicity data specific for individual ingredients in their pure state:

Toxicity to fish

• Ethanol	: Species: Leuciscus idus (golden orfe) LC50: 8,140 mg/l/ 48 h
• Methyl ethyl ketone	: Species: Pimephales promelas (fathead minnow) LC50: 3,220 mg/l/ 96 h

Toxicity to daphnia

• Ethanol	: Species: Daphnia magna (water flea) EC50: > 9,000 mg/l/ 48 h
• Methyl ethyl ketone	: Species: Daphnia magna (water flea) EC50: 5,091 mg/l/ 48 h

Toxicity to algae

• Ethanol	: Species: Scenedesmus quadricauda (algae) EC5: 5,000 mg/l/ 7 d
• Methyl ethyl ketone	: Species: Scenedesmus quadricauda (algae) EC50: > 100 mg/l/ 7 d

Toxicity to bacteria

- Ethanol : Species: Pseudomonas putida (bacteria)
EC5: 6,500 mg/l/ 16 h
- Methyl ethyl ketone : Species: Pseudomonas putida (bacteria)
EC5: 1,150 mg/l/ 16 h

Further information on ecology

Chemical Oxygen Demand (COD) : > 999,999 mg/l

This preparation does not contain any ingredient that is classified as hazardous to the environment according to European Directives and corresponding national legislation.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal methods

Environmental regulations, discharge of chemicals and washwater, waste treatment and disposal conditions of chemicals and their packaging may vary from one country to another. The relevant local regulations should be consulted. When this product or its contaminated packaging has to be removed as waste, contact an authorized waste contractor. May be discharged to drain if local regulations permit.

US. RCRA Hazardous Waste Classification (40 CFR 261)

SECTION 14. TRANSPORT INFORMATION

CFR_ROAD

UN-No : 1170
 Proper shipping name : ETHANOL SOLUTION
 Class : 3
 Packing group : II
 Labelling No. : 3

CFR_RAIL

UN-No : 1170
 Proper shipping name : ETHANOL SOLUTION
 Class : 3
 Packing group : II
 Labelling No. : 3

CFR_INWTR

UN-No : 1170
 Proper shipping name : ETHANOL SOLUTION
 Class : 3
 Packing group : II
 Labelling No. : 3

TDG_ROAD

UN-No : 1170
 Proper shipping name : ETHANOL SOLUTION
 Class : 3
 Packing group : II
 Labelling No. : 3

TDG_RAIL

UN-No : 1170
 Proper shipping name : ETHANOL SOLUTION
 Class : 3
 Packing group : II
 Labelling No. : 3

TDG_INWTR

UN-No : 1170

Proper shipping name : ETHANOL SOLUTION
Class : 3
Packing group : II
Labelling No. : 3

IMO / IMDG

UN-No : 1170
Proper shipping name : ETHANOL SOLUTION
Class : 3
Packing group : II
Labelling No. : 3
EmS : F-E, S-D

ICAO / IATA cargo aircraft only

UN-No : 1170
Proper shipping name : Ethanol solution
Class : 3
Packing group : II
Labelling No. : 3
Packing instruction : 307

ICAO / IATA passenger and cargo aircraft

UN-No : 1170
Proper shipping name : Ethanol solution
Class : 3
Packing group : II
Labelling No. : 3
Packing instruction : 305

SECTION 15. REGULATORY INFORMATION

US. Toxic Substances Control Act (TSCA)

All of the components of this product are listed on the TSCA Inventory.

US. OSHA Classification

This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

US. SARA 311/312 Hazard Categories

Acute Health Hazard. Chronic Health Hazard Fire Hazard.

US. EPA CERCLA Hazardous Substances (40 CFR 302)

- Ethanol : Reportable quantity: 100 lbs
- Methyl ethyl ketone : Reportable quantity: 5,000 lbs

US. California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects or any other harm.

State Right-to-Know Information

The following chemicals are specifically listed by individual states. Other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

US. Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000)

	<u>CAS-No.</u>	<u>Concentration [%]</u>	
• Ethanol	64-17-5	>= 80.0	- <= 100.0
• Methyl ethyl ketone	78-93-3	>= 1.0	- <= 5.0

US. New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5)

	<u>CAS-No.</u>	<u>Concentration [%]</u>	
• Ethanol	64-17-5	>= 80.0	- <= 100.0
• Methyl ethyl ketone	78-93-3	>= 1.0	- <= 5.0

US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323)

	<u>CAS-No.</u>	<u>Concentration [%]</u>	
• Ethanol	64-17-5	>= 80.0	- <= 100.0
• Methyl ethyl ketone	78-93-3	>= 1.0	- <= 5.0

US. Rhode Island Hazardous Substances Right-to-Know Act (R.I. Gen. Laws Section 28-21-1 et. seq.)

	<u>CAS-No.</u>	<u>Concentration [%]</u>	
• Ethanol	64-17-5	>= 80.0	- <= 100.0
• Methyl ethyl ketone	78-93-3	>= 1.0	- <= 5.0

US. Massachusetts, New Jersey, Pennsylvania or Rhode Island Right to Know Substance Lists : See Section 2.

Canadian WHMIS Classification

Flammable Liquid

Canadian Environmental Protection Act (CEPA)

All components of this product are on the Canadian DSL list.

SECTION 16. OTHER INFORMATION

US. HMIS Rating

Health	:	2
Flammability	:	3
Reactivity	:	0

(0 = Minimal, 1 = Slight, 2 = Moderate, 3 = Serious, 4 = Severe)

US. NFPA 704M Rating

Health	:	2
Flammability	:	3
Reactivity	:	0

(0 = Insignificant, 1 = Slight, 2 = Moderate, 3 = High, 4 = Extreme)

Agfa Corporation's method of hazard communication is comprised of Product Labels and Material Safety Data Sheets. HMIS and NFPA ratings are provided by Agfa Corporation as a customer service.

This MSDS is replacing Agfa MSDS number 661T.003

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