

ADC SCREEN CLEANER

SUBID:00000009223

Version 3

Print Date 02-11-2012

Revision Date 02-09-2012

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Identification of the substance/preparation

Product name : ADC SCREEN CLEANER
 MSDS Number : 00000009223
 Use of the Substance/Preparation : Storage phosphor screen cleaner
 Product code : EBG1, EFOJH
 Business group : MI

Company/Undertaking Identification

Agfa Corporation
 611 River Drive
 Center 3
 Elmwood Park, NJ 07407
 U.S.A.

Transport Emergency

Non-transportation

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

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
• Methanol	67-56-1	>= 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.

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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.
- Methanol : Can be irritating to the mucous membranes and respiratory tract with symptoms of coughing, sore throat and shortness of breath. Exposure to very high concentrations may cause headache, nausea, narcosis, fatigue and loss of appetite.

Skin contact

- Ethanol : May cause irritation resulting in reddening, drying and itching.
- Methanol : Repeated or prolonged skin contact with the solvent can result in dry, defatted and cracked skin causing increased susceptibility to infection. In addition, dermatitis and skin rash and redness may occur from skin contact. Toxic by skin absorption.

Eye contact

- Ethanol : May be irritating to the eyes with symptoms of reddening, tearing and stinging.
- Methanol : Can be irritating to the eyes with symptoms of reddening, itching, stinging, and swelling.

Ingestion

- Ethanol : May cause central nervous system depression with symptoms of headache, dizziness, confusion or coma.
- Methanol : May be fatal or cause blindness if swallowed.

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.

Carcinogenicity

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

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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 : Exposure controls / personel protection.
- 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

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Ethanol	64-17-5	1,900 mg/m3 1,900 mg/m3 1,000 ppm	PEL TWA STEL	06 1993 1989 2009	OSHA Z1 OSHA Z1A ACGIH
Methanol	67-56-1	200 ppm 250 ppm 260 mg/m3 260 mg/m3 325 mg/m3	TWA STEL PEL TWA STEL	2002 2002 06 1993 1989 1989	ACGIH ACGIH OSHA Z1 OSHA Z1A OSHA Z1A

Exposure Limit Values (CA)

Components	CAS-No.	Values	Type	Revision Date	Basis
Ethanol	64-17-5	1,880 mg/m3 1,000 ppm 1,000 ppm 1,250 ppm	TWA STEL 8 HR ACL 15 MIN ACL	12 2008 07 2007 05 2009 05 2009	OEL (QUE) CAD BC OEL CAD SK OEL CAD SK OEL
Methanol	67-56-1	1,000 ppm 262 mg/m3 328 mg/m3 200 ppm 250 ppm 200 ppm 250 ppm	STEL TWA STEL 8 HR ACL 15 MIN ACL TWA STEL	03 2011 12 2008 12 2008 05 2009 05 2009 03 2011 03 2011	CAD MB OEL OEL (QUE) OEL (QUE) CAD SK OEL CAD SK OEL CAD MB OEL CAD MB OEL

Exposure controls

- Hygiene measures : Employees should wash their hands and face before eating, drinking, or using tobacco products. Educate and train employees in the safe use and handling of this product. Emergency showers and eye wash stations should be available.
- Respiratory protection : Under normal conditions of use, respirator protection is not required. If respirators are used, institute a program in accordance with OSHA standard 29CFR1910.134 or Canada CSA Standard Z94.4-02.
- Hand protection : Use chemical resistant gloves. In case of prolonged immersion or frequently repeated contact use gloves made of the materials: butyl rubber (thickness >= 0.36 mm, breakthrough time > 480 min), nitrile rubber (thickness >= 0.38 mm, breakthrough time > 480 min) or neoprene (thickness >= 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.

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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	:	99.6 % 784.8 g/l 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
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
Based on available data, the classification criteria are not met.
- Methanol : LD50 rat 5,600 mg/kg

Acute inhalation toxicity

- Ethanol : LC50 rat > 8,000 mg/l/ 4 h
Based on available data, the classification criteria are not met.
- Methanol : LC50 rat 86.4 mg/l/ 4 h

Acute dermal toxicity

- Ethanol : LDL0 rabbit 20,000 mg/kg
Based on available data, the classification criteria are not met.
- Methanol : LD50 rabbit 15,800 mg/kg

Acute toxicity (other route)

- Methanol :
No data available

Skin irritation

- Ethanol : rabbit No skin irritation

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- No skin irritation
OECD Test Guideline 404
The product may be absorbed through the skin.
- Methanol : rabbit Moderate skin irritation
Information from IUCLID
- Eye irritation**
- Ethanol : rabbit No eye irritation
No eye irritation
OECD Test Guideline 405
Moderate eye irritation Based on available data, the classification criteria are not met.
 - Methanol : rabbit Moderate eye irritation
- Sensitization**
- Ethanol :
 - Methanol : guinea pig Did not cause sensitization on laboratory animals.
Information from IUCLID
- Repeated dose toxicity**
- Ethanol : Chronic exposure damages the brain and the central nervous system. Skin contact can cause skin damage with formation of excema. The fluid can cause a dry or cracking skin.
 - Methanol : Skin contact can cause skin damage with formation of excema. The fluid can cause a dry or cracking skin.
- Carcinogenicity**
- Ethanol : There was no evidence of cancer in male mice following chronic oral administration.
 - Methanol : There was no evidence of cancer in male mice following chronic oral administration.
- Toxicity to reproduction**
- Ethanol : rat 28-day
Application Route: Oral
Reproductive effects have been observed in animal studies.
 - Methanol : There is insufficient scientific evidence that this product can cause reproductive effects.
- Mutagenicity**
- Ethanol : There is some evidence for mutagenicity from studies in animals, in isolated cells taken from animals and plants, and in other microorganisms. Based on available data, the classification criteria are not met.
 - Methanol : There is no evidence for mutagenicity from studies in animals.
- Teratogenicity**

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- Ethanol : rat Literature.
Application Route: Oral
Based on available data, the classification criteria are not met.
- Methanol : Directive 92/32/EEC, Annex V, B.31.
No teratogenic effects observed at the doses tested.

Other information

Hazard labelling of this preparation or substance : see section 15.

SECTION 12. ECOLOGICAL INFORMATION**Elimination information (persistence and degradability)****Biodegradation**

- Ethanol : OECD 301E
94 %
According to the results of tests of biodegradability this product is considered as being readily biodegradable.
- Methanol : Methanol is expected to biodegrade in soil and water rapidly.

Physico-chemical removability

- Ethanol : Not applicable
- Methanol : The product can be degraded by abiotic (e.g. chemical or photolytic) processes.

Bioaccumulation

- Ethanol : Bioaccumulation is unlikely.
- Methanol

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
Based on available data, the classification criteria are not met.
- Methanol : Species: Pimephales promelas (fathead minnow)
LC50: 28,100 mg/l/ 96 h

Toxicity to daphnia

- Ethanol : Species: Daphnia magna (water flea)
EC50: > 9,000 mg/l/ 48 h
Based on available data, the classification criteria are not met.

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- Methanol : Species: Daphnia magna (water flea)
EC50: > 10,000 mg/l/ 48 h
Based on available data, the classification criteria are not met.

Toxicity to algae

- Ethanol : Species: Scenedesmus quadricauda (algae)
EC5: 5,000 mg/l/ 7 d
Based on available data, the classification criteria are not met.
- Methanol : Species: Scenedesmus quadricauda (algae)
EC5: 8,000 mg/l/ 8 d
Based on available data, the classification criteria are not met.

Toxicity to bacteria

- Ethanol : Species: Pseudomonas putida (bacteria)
EC5: 6,500 mg/l/ 16 h
Based on available data, the classification criteria are not met.
- Methanol : Species: Pseudomonas putida (bacteria)
EC5: 6,600 mg/l/ 16 h
Based on available data, the classification criteria are not met.

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**

Waste disposal should be in accordance with existing federal, state and local environmental control laws. Discharge to sewer may require approval of permitting authority and may require pretreatment.

Empty containers.

Recondition or dispose of empty container in accordance with governmental regulations.

US. RCRA Hazardous Waste Classification (40 CFR 261)

When discarded in its purchased form, this product meets the criteria of ignitability, and should be managed as a hazardous waste (EPA Hazardous Waste Number D001).

SECTION 14. TRANSPORT INFORMATION**US RSPA/DOT Hazardous Substances List**

- Ethanol : Reportable quantity: 100 lbs

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TDG ROAD

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

TDG RAIL

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

TDG INWTR

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

IMO / IMDG

UN-No :
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 :
Proper shipping name : Ethanol solution
Class : 3
Packing group : II
Labelling No. : 3
Packing instruction : 364

ICAO / IATA passenger and cargo aircraft

UN-No :
Proper shipping name : Ethanol solution
Class : 3
Packing group : II
Labelling No. : 3
Packing instruction : 353

SECTION 15. REGULATORY INFORMATION**US. Toxic Substances Control Act (TSCA)**

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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 Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required

- Methanol : De minimis concentration: 1.0 %
- : Reportable threshold: 10,000 lbs
- : Reportable threshold: 25,000 lbs

US. EPA CERCLA Hazardous Substances (40 CFR 302)

- Ethanol : Reportable quantity: 100 lbs
- Methanol : 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
• Methanol	67-56-1	>= 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
• Methanol	67-56-1	>= 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
• Methanol	67-56-1	>= 1.0 - <= 5.0

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

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	<u>CAS-No.</u>	<u>Concentration [%]</u>
• Ethanol	64-17-5	>= 80.0 - <= 100.0
• Methanol	67-56-1	>= 1.0 - <= 5.0

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

Canadian WHMIS Classification

- B2 : Flammable Liquid
- D2B : Toxic Material Causing Other Toxic Effects

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.006

Section(s) changed compared to the previous issue: **2, 3, 5, 8, 9, 11, 12, 15, 16**

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