SAFETY DATA SHEET

Classified in accordance with Work Health and Safety Regulations 2011

1. Identification of the substance or mixture and of the supplier

GHS Product identifier: CR Phosphor Plate Cleaner

Recommended use of the chemical and restrictions on use

Recommended use: Cleaning agent
Recommended restrictions: Reserved for industrial and professional use.

Other Names

Name	Product Code
CR PHOSPHOR PLATE CLEANER 4P 0,5l	EFOJH
CR PHOSPHOR IP CLEANER 2P 0,5l	EQP6D

Supplier's details

Manufacturer

Agfa NV
Septestraat 27
2640 Mortsel
Belgium

Telephone: +32 3 4442111
Fax: +32 3 4447094
E-mail: electronic.sds@agfa.com

Supplier

Agfa-Gevaert Ltd
12 Dalmore Drive
Scoresby VIC 3179

Telephone: (03) 9756 4100
E-mail: electronic.sds@agfa.com

Emergency telephone number:
Emergency 24 hour: 1800 638 556

2. Hazard(s) identification

GHS classification

Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Physical Hazards

Flammable liquids	Category 2

Health Hazards

Serious Eye Damage/Eye Irritation	Category 2A
Specific Target Organ Toxicity - Single Exposure	Category 2

Label Elements

Pictograms:

|Flame| |Exclamation mark| |Health hazard|

Signal Word:	Danger
Hazard Statement:	Highly flammable liquid and vapor. Causes serious eye irritation. May cause damage to organs.
Precautionary Statements	
Prevention:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/eye protection/face protection.
Response:	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF exposed or concerned: Call a POISON CENTER/doctor. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
Storage:	Store in a well-ventilated place. Keep cool. Store locked up.
Disposal:	Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.
Other hazards which do not result in GHS classification:	None.

3. Composition/information on ingredients

Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
ethanol; ethyl alcohol	ethyl alcohol	64-17-5	>60%
Methanol	methylalcohol	67-56-1	1 - 10%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

The exact concentration has been withheld as a trade secret.

4. First-aid measures

Description of necessary first-aid measures

General information:	Get medical attention if symptoms occur.
Inhalation:	Move to fresh air.

Skin Contact:	Get medical attention if symptoms occur. Take off immediately all contaminated clothing. Rinse skin with water [or shower].
Eye contact:	Rinse immediately with plenty of water.
Ingestion:	Rinse mouth thoroughly.
Personal Protection for First-aid Responders:	CAUTION! First aid personnel must be aware of own risk during rescue! See Section 8 of the SDS for Personal Protective Equipment.

Most important symptoms and effects, both acute and delayed:

Symptoms:	See section 11 of the SDS for additional information on health hazards.
Hazards:	See section 11 of the SDS for additional information on health hazards.

Indication of immediate medical attention and special treatment needed

Treatment:	Treat symptomatically.

5. Fire-fighting measures

General Fire Hazards:	Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting the fire. Fight fire from a protected location. Move containers from fire area if you can do so without risk.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:	Extinguish with foam, carbon dioxide, dry powder or water fog.
Unsuitable extinguishing media:	Avoid water in straight hose stream; will scatter and spread fire.
Special hazards arising from the substance or mixture:	Vapors may travel considerable distance to a source of ignition and flash back. Vapors may cause a flash fire or ignite explosively. Prevent buildup of vapors or gases to explosive concentrations.Combustible liquid. Combustion by-products include oxides of nitrogen, irritants, and toxic gases.

Special protective equipment and precautions for fire-fighters

Special fire-fighting procedures:	No data available.
Special protective equipment for fire-fighters:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Hazchem Code:	•2YE

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:	Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind.
For non-emergency personnel:	Use personal protective equipment.
For emergency responders:	Warn everybody of potential hazards and evacuate if necessary. Use personal protective equipment.

Methods and material for containment and cleaning up: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. In case of leakage, eliminate all ignition sources. Dike far ahead of larger spill for later recovery and disposal.

Environmental Precautions: Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.

7. Handling and storage

Handling

Technical measures (e.g. Local and general ventilation): Provide adequate ventilation.

Safe handling advice: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond container and receiving equipment. Take precautionary measures against static discharges.

Contact avoidance measures: Contact with incompatible materials.

Storage

Safe storage conditions: Store in a well-ventilated place. Store in a cool place.Refer to AS1940 - The storage and handling of flammable and combustible liquids - for further information concerning ventilation equipment and storage.

Safe packaging materials: Suitable materials**:** Keep in original container.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
ethanol; ethyl alcohol	TWA	1,000 ppm 1,880 mg/m3	Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A), as amended (12 2011)
Methanol	STEL	250 ppm 328 mg/m3	Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A), as amended (12 2011)
	TWA	200 ppm 262 mg/m3	Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A), as amended (12 2011)

Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.

Biological Limit Values

No biological exposure limits noted for the ingredient(s).

Appropriate Engineering Controls: Provide adequate ventilation.

Individual protection measures, such as personal protective equipment

General information:	Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Follow training instructions when handling this material. Use explosion-proof ventilation equipment. Refer to AS1940 - The storage and handling of flammable and combustible liquids - for further information concerning ventilation equipment and storage.
Eye/face protection:	Safety goggles Eye Protection must be conform to AS/NZS1337 - Eye protectors for industrial applications.
Hand Protection:	Protective gloves should be used if there is a risk of direct contact or splash., Chemical resistant gloves required for prolonged or repeated contact., Butyl rubber., Glove thickness: > 0.35 mm, Break-through time: > 240 min, Risk of splashes:, Nitrile rubber., Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable., The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.Reference should be made to AS/NZS2161.1 - Occupational protective gloves - selection, use and maintenance.
Other:	Wear suitable protective clothing as protection against splashing or contamination.
Respiratory Protection:	In case of inadequate ventilation, use respiratory protection. Seek advice from local supervisor. Refer to AS/NZS1715 on selection, use and maintenance of respiratory protective devices. Refer to AS/NZS1716 - respiratory protective devices.
Hygiene measures:	Wash contaminated clothing before reuse. Avoid contact with skin. Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Avoid contact with eyes. When using do not smoke.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Physical state:	liquid
Form:	liquid
Color:	Colorless
Odor:	Slight odor of alcohol
Odor Threshold:	No data available.
Freezing point:	-184 - -166 °F/-120 - -110 °C
Boiling Point:	163 - 181 °F/73 - 83 °C
Flammability:	Flammable.

Upper/lower limit on flammability or explosive limits

Explosive limit - upper:	27 %(V)

Explosive limit - lower:	3.3 %(V)
Flash Point:	57 °F/14 °C (ISO 2719)
Autoignition Temperature:	797 °F/425 °C
Decomposition Temperature:	No data available.
pH:	not applicable
Viscosity	
Dynamic viscosity:	1.22 - 1.41 mPa.s(QSAR)
Kinematic viscosity:	No data available.
Flow Time:	No data available.
Solubility(ies)	
Solubility in Water:	No data available.
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	-0.300
Vapor pressure:	58.50 hPa (68 °F/20 °C)
Relative density:	0.788 (68 °F/20 °C)
Density:	No data available.
Bulk density:	No data available.
Relative vapor density:	No data available.
Particle characteristics	
Particle Size:	No data available.
Particle Size Distribution:	No data available.
Specific surface area:	No data available.
Surface charge/Zeta potential:	No data available.
Shape:	No data available.
Crystallinity:	No data available.
Surface treatment:	No data available.

Other information

Minimum ignition temperature:	698 °F/370 °C

10. Stability and reactivity

Reactivity:	Material is stable under normal conditions.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	Not known.
Conditions to avoid:	Heat, sparks, flames.
Incompatible Materials:	Strong oxidizing agents.
Hazardous Decomposition Products:	By heating and fire, harmful vapors/gases may be formed.

11. Toxicological information

Information on likely routes of exposure

Inhalation:	Inhalation is the primary route of exposure. In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.
Skin Contact:	Moderately irritating to skin with prolonged exposure.

Eye contact: Eye contact is possible and should be avoided.

Ingestion: May be ingested by accident. Ingestion may cause irritation and malaise.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product:	ATEmix: 5,000 mg/kg
Components:	
ethanol; ethyl alcohol	LD 50 (Rat): 10,470 mg/kg Experimental result, Key study
Methanol	LD 50 (Rat): 5,628 mg/kg LD 0 (Rat): >= 2,528 mg/kg Experimental result, Supporting study

Dermal

Product:	ATEmix: 15,000 mg/kg
Components:	
ethanol; ethyl alcohol	No data available.
Methanol	LD 50 (Rabbit): 15,800 mg/kg LD 50 (Rabbit): 17,100 mg/kg Experimental result, Supporting study

Inhalation

Product:	ATEmix: 150 mg/l Vapour; ATEmix: 25.5 mg/l Dusts, mists and fumes;
Components:	
ethanol; ethyl alcohol	LC 50 (Rat, 4 h): 124.7 mg/l Vapor; 2 = reliable with restrictions; Vapor, Experimental result, Key study
Methanol	LC 50 (Cat, 6 h): 43.68 mg/l Inhalation; 2 = reliable with restrictions; Inhalation, Experimental result, Supporting study LC50 (rat): 86.4 mg/l

Repeated dose toxicity

Product:	No data available.
Components:	
ethanol; ethyl alcohol	NOAEL (Rat(Male), Inhalation, 1 - 6 Weeks): 13.3 mg/l Inhalation Read-across from supporting substance (structural analogue or surrogate), Supporting study NOAEL (Rat(Male), Oral, 90 d): 3,250 mg/kg Oral Experimental result, Supporting study
Methanol	No data available.

Skin Corrosion/Irritation

Product:	No data available.
Components:	
ethanol; ethyl alcohol	Not irritant in vivo Experimental result, Supporting study
Methanol	Not irritant in vivo Experimental result, Key study

Serious Eye Damage/Eye Irritation

Product:	No data available.
Components:	
ethanol; ethyl alcohol	No data available.
Methanol	Not irritating in vivo

Respiratory or Skin Sensitization

Product:	No data available.
Components:	

ethanol; ethyl alcohol	Skin sensitization:, in vivo (Guinea pig): Non sensitising
Methanol	Skin sensitization:, in vivo (Guinea pig): Non sensitising

Carcinogenicity

Product:	No data available.
Components:	
ethanol; ethyl alcohol	No data available.
Methanol	No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

ethanol; ethyl alcohol	Overall evaluation: 1. Carcinogenic to humans. Overall evaluation: 1. Carcinogenic to humans.

Notifiable Carcinogenic Substances:
No carcinogens present or none present in regulated quantities

Prohibited Chemical Substances:
No carcinogens present or none present in regulated quantities

Germ Cell Mutagenicity

In vitro

Product:	No data available.
Components:	
ethanol; ethyl alcohol	No data available.
Methanol	No data available.

In vivo

Product:	No data available.
Components:	
ethanol; ethyl alcohol	No data available.
Methanol	No data available.

Reproductive toxicity

Product:	No data available.
Components:	
ethanol; ethyl alcohol	No data available.
Methanol	No data available.

Specific Target Organ Toxicity - Single Exposure

Product:	No data available.
Components:	
ethanol; ethyl alcohol	No data available.
Methanol	No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product:	No data available.
Components:	
ethanol; ethyl alcohol	No data available.
Methanol	No data available.

Aspiration Hazard

Product:	No data available.
Components:	
ethanol; ethyl alcohol	No data available.
Methanol	No data available.

Information on health hazards

Other hazards

Product:	No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product:	No data available.
Components:	
ethanol; ethyl alcohol	LC 50 (Oncorhynchus mykiss, 24 h): 11,200 mg/l Experimental result, Supporting study
Methanol	LC 50 (Lepomis macrochirus, 96 h): 15,400 mg/l Experimental result, Key study

Aquatic Invertebrates

Product:	No data available.
Components:	
ethanol; ethyl alcohol	LC 50 (Ceriodaphnia dubia, 48 h): 5,012 mg/l Experimental result, Key study
Methanol	No data available.

Toxicity to Aquatic Plants

Product:	No data available.
Components:	
ethanol; ethyl alcohol	No data available.
Methanol	No data available.

Toxicity to microorganisms

Product:	No data available.
Components:	
ethanol; ethyl alcohol	No data available.
Methanol	No data available.

Chronic hazards to the aquatic environment:

Fish

Product:	No data available.
Components:	
ethanol; ethyl alcohol	No data available.
Methanol	No data available.

Aquatic Invertebrates

Product:	No data available.
Components:	
ethanol; ethyl alcohol	No data available.
Methanol	No data available.

Toxicity to Aquatic Plants

Product:	No data available.
Components:	
ethanol; ethyl alcohol	No data available.
Methanol	No data available.

Toxicity to microorganisms

Product:	No data available.
Components:	
ethanol; ethyl alcohol	No data available.
Methanol	No data available.

Persistence and Degradability

Biodegradation

Product:	No data available.
Components:	
ethanol; ethyl alcohol	84 % Detected in water. Experimental result, Key study
Methanol	71.5 % (5 d) Detected in water. Experimental result, Key study

BOD/COD Ratio

Product:	No data available.
Components:	
ethanol; ethyl alcohol	No data available.
Methanol	No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product:	No data available.
Components:	
ethanol; ethyl alcohol	Cyprinus carpio, Bioconcentration Factor (BCF): 1 Aquatic sediment Read-across from supporting substance (structural analogue or surrogate), Supporting study
Methanol	Leuciscus idus, Bioconcentration Factor (BCF): < 10 Aquatic sediment Experimental result, Supporting study

Partition Coefficient n-octanol / water (log Kow)

Product:	Log Kow: -0.300
Components:	
ethanol; ethyl alcohol	Log Kow: -0.31
Methanol	Log Kow: -0.77

Mobility in soil:

Product	No data available.
Components:	
ethanol; ethyl alcohol	No data available.
Methanol	No data available.

Product	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Components:	
ethanol; ethyl alcohol	No data available.
Methanol	No data available.

Other adverse effects:

Other hazards

Product:	No data available.

13. Disposal considerations

General information: Disposal considerations (including disposal of contaminated containers or packaging) Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Disposal methods:	Discharge, treatment, or disposal may be subject to national, state, or local laws. Since emptied containers retain product residue, follow label warnings even after container is emptied.
Contaminated Packaging:	Dispose in accordance with all applicable regulations.

14. Transport information

ADG

UN number or ID number	UN 1170
UN Proper Shipping Name	ETHANOL SOLUTION
Transport Hazard Class(es)	
Class:	3
Label(s):	3
Packing Group	II
Hazchem Code:	•2YE
Environmental Hazards	No
Special precautions for user	–

IATA

UN number or ID number	UN1170
Proper Shipping Name	Ethanol solution
Transport Hazard Class(es)	
Class	3
Label(s)	3
Packing Group	II
Limited quantity	1.00L
Excepted quantity	E2
Environmental Hazards	No
Special precautions for user	
Other information	
Passenger and cargo aircraft	Allowed.
Cargo aircraft only	Allowed.

IMDG

UN number or ID number	UN1170
UN Proper Shipping Name	ETHANOL SOLUTION
Transport Hazard Class(es)	
Class	3
Label(s)	3
EmS No.	F-ES-D
Packing Group	II
Limited quantity	1.00L
Excepted quantity	E2
Environmental Hazards	No
Special precautions for user	

Transport in bulk according to Annex II of MARPOL and the IBC Code

not applicable

15. Regulatory information

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Poisons Schedule Number

Not regulated.

Notifiable Carcinogenic Substances
Not Regulated

Prohibited Carcinogenic Substances
Not Regulated

National Pollutant Inventory (NPI) substance reporting list

ethanol; ethyl alcohol	Threshold quantity:10tonnes/yr	Threshold Category: 1
Methanol	Threshold quantity:10tonnes/yr	Threshold Category: 1

Restricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9)
Not Regulated

Importation of Ozone Depleting Substances (Customs (Prohibited Imports) Regulations 1956, Schedule 10)
Not Regulated

Australia (AICS)
All components of this product are listed on the Australian Inventory of Chemical Substances (AICS), or otherwise are in compliance with the NICNAS requirements.

16.Other Information

Issue Date:	31.07.2018
Version #:	1.2
Further Information:	Follow training instructions when handling this material.
References:	Safety Data Sheet from the supplier. ECHA
Disclaimer:	This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.