# CAWO

# CAWO PLATE CLEANER

## CAWO PHOTOCHEMISCHES WERK GMBH

SUBID:000001007221

Version 1

Print Date 04-10-2008

Revision Date 04-09-2008

#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

#### Identification of the substance/preparation

Product name

CAWO PLATE CLEANER

MSDS Number

000001007221

Use of the

Emulsion cleaner

Substance/Preparation

Product code

EROZ4

#### Company/Undertaking Indentification

CAWO Photochemisches Werk GmbH

Postfach 1129

86521 Schrobenhausen

Deutschland

Emergency (Belgien)

: +32 3 444 3333 (24h/24h)

#### SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

Emulsion cleaner, mainly consisting of:

	<u>CAS-No.</u>	Concentration [%]
<ul> <li>Stoddard solvent</li> </ul>	8052-41-3	>= 10.0 - <= 20.0
<ul> <li>Nitric acid</li> </ul>	7697-37-2	>= 1.0 - <= 5.0
<ul> <li>Phosphoric acid</li> </ul>	7664-38-2	>= 1.0 - <= 5.0
<ul> <li>Water</li> </ul>	7732-18-5	>= 60.0 - <= 80.0
<ul> <li>Sorbitan monooleate</li> </ul>	1338-43-8	>= 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

White.

Odour

: Sweetish smell

WARNING ! Combustible.

REG\_NOAM

1/10

EΝ

# CAWO

# CAWO PLATE CLEANER

#### **CAWO PHOTOCHEMISCHES WERK GMBH**

SUBID:000001007221

Version 1

Print Date 04-10-2008

Revision Date 04-09-2008

May cause respiratory tract irritation. Inhalation may cause nausea or dizziness. May cause skin irritation. Causes eye burns.

#### Potential Health Effects

Primary Routes of Entry

: Eye contact. Skin contact. Inhalation of vapours or mists. Accidental

ingestion.

#### Acute health effects

#### Inhalation

Stoddard solvent

May be irritating to the mucous membranes and the respiratory tract with symptoms of coughing and nasal discharge. May cause central nervous system depression with symptoms of headache, nausea, dullness and dizziness.

Nitric acid

: Is expected to be irritating to the respiratory tract with symptoms of coughing, sore throat, and runny nose.

Phosphoric acid

Is expected to be irritating to the respiratory tract with symptoms of coughing, sore throat, and runny nose.

#### Skin contact

Stoddard solvent

: 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.

Nitric acid

Corrosive with symptoms of reddening, itching, swelling, burning and possible permanent damage.

Phosphoric acid

: Corrosive with symptoms of reddening, itching, swelling, burning and possible permanent damage.

#### Eye contact

Stoddard solvent

 May be irritating to the eyes with symptoms of reddening, tearing and stinging.

· Nitric acid

: Corrosive with symptoms of reddening, tearing, swelling, burning and possible permanent damage.

· Phosphoric acid

: Can be severely irritating and corrosive to the eyes resulting in burning, reddening, swelling of the eye and surrounding tissue and possibly permanent injury to the cornea.

#### Ingestion

· Stoddard solvent

: Vomiting may cause aspiration of material resulting in chemical pneumonitis. May cause gastrointestinal tract irritation with diarrhea, abdominal pain, vomiting and possibly burns.

Nitric acid

: Corrosive to the digestive tract with symptoms of burning and ulceration.

Phosphoric acid

: Swallowing high concentrations may cause severe injury.

#### Chronic health hazards

#### Inhalation

REG\_NOAM 2/10 EN

CAWO PLATE CLEANER

# CAWO

#### **CAWO PHOTOCHEMISCHES WERK GMBH**

SUBID:000001007221

Version 1

Print Date 04-10-2008

Revision Date 04-09-2008

Stoddard solvent

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.

#### Ingestion

Stoddard solvent

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

The components of this product are not listed by NTP, IARC or regulated as a carcinogen by 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

Do not induce vomiting. Obtain medical attention.

Inhalation

Take person to fresh air. If necessary, seek medical advice.

#### SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Special protective equipment

for fire-fighters Additional advice e.g. water, CO2, foam, powder, sand.

Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes.

Water mist may be used to cool closed containers.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions Environmental precautions See section: Exposure controls / personel protection.

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

ΕN 3/10 REG\_NOAM

CAWO PLATE CLEANER

# CAWO

#### **CAWO PHOTOCHEMISCHES WERK GMBH**

SUBID:000001007221

Version 1

Print Date 04-10-2008

Revision Date 04-09-2008

Advice on protection against

fire and explosion

Advice on safe handling

: Keep away from heat and sources of ignition. Take precautionary

measures against static discharges.

: Handle in accordance with good industrial hygiene and safety

practice. Wash thoroughly after handling.

Storage

Storage stability

Advice on common storage

Requirements for storage areas and containers

Stable under recommended storage conditions.

: Store away from strong alkalis and oxidizing agents.

Keep container tightly closed and in a well-ventilated place. Protect

from direct sunlight.

#### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Exposure Limit Values (US)**

Components	CAS-No.	Values	Туре	Revision Date	Basis
Stoddard solvent	8052-41-3	100 ppm	TWA	2004	ACGIH
		350 mg/m3	REL.	06 1997	NIOSH
		1,800 mg/m3	Ceil_Time	06 1997	NIOSH
		2,900 mg/m3	PEL	06 1993	OSHA Z1
Nitric acid	7697-37-2	2 ppm	TWA	2002	ACGIH
		4 ppm	STEL	2002	ACGIH
		5 mg/m3	PEL	06 1993	OSHA Z1
		5 mg/m3	TWA	1989	OSHA Z1A
		10 mg/m3	STEL	1989	OSHA Z1A
Phosphoric acid	7664-38-2	1 mg/m3	TWA	2002	ACGIH
,	}	3 mg/m3	STEL	2002	ACGIH
		1 mg/m3	PEL	06 1993	OSHA Z1
		1 mg/m3	TWA	1989	OSHA Z1A
		3 mg/m3	STEL	1989	OSHA Z1A

#### **Exposure Limit Values (CA)**

Components	CAS-No.	Values	Туре	Revision Date	Basis
Stoddard solvent	8052-41-3	525 mg/m3	TWA	1994	OEL (QUE)
		572 mg/m3	TWA	10 2003	CAD AB OEL
		525 mg/m3	TWA	09 2000	CAD ON OEL
		290 mg/m3	TWA	03 2004	CAD BC OEL
		580 mg/m3	STEL	03 2004	CAD BC OEL
Nitric acid	7697-37-2	5.2 mg/m3	TWA	2006	OEL (QUE)
		10 mg/m3	STEL	2006	OEL (QUE)
Phosphoric acid	7664-38-2	1 mg/m3	TWA	2006	OEL (QUE)
,	•	3 mg/m3	STEL	2006	OEL (QUE)

#### **Exposure controls**

REG_NOAM	4/10	EN

CAWO PLATE CLEANER

# CAWO (

#### **CAWO PHOTOCHEMISCHES WERK GMBH**

SUBID:000001007221

Version 1

Print Date 04-10-2008

Revision Date 04-09-2008

Hygiene measures

General dilution and local exhaust as necessary to control airborne vapors, mists, dusts and thermal decomposition products below appropriate airborne concentration standards/guidelines. 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: natural latex (thickness >= 0.75 mm, breakthrough time > 10 min). Avoid gloves made of: butyl rubber, nitrile rubber or neoprene.

Eye protection

Safety glasses.

Personal protective equipment

: 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.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form

Liquid. White.

Colour Odour

Sweetish smell

Vapour pressure

Not established.

Relative density

0,970 at 20 °C (68 °F)

pH (25 °C, 77 °F)

Boiling point/range

> 100 °C (> 212 °F)

Flash point

44.4 °C (111.9 °F)

VOC content

17.4 %

VOC content excluding water

#### SECTION 10. STABILITY AND REACTIVITY

Stability

The product is stable under normal conditions of storage and use.

Hazardous decomposition

products

None

Thermal decomposition

Not applicable

Conditions to avoid

Avoid contact with strong alkalis and oxidizing agents.

5/10 ΕN **REG NOAM** 

# CAWO

#### **CAWO PHOTOCHEMISCHES WERK GMBH**

SUBID:000001007221

Version 1

Print Date 04-10-2008

Revision Date 04-09-2008

#### SECTION 11. TOXICOLOGICAL INFORMATION

CAWO PLATE CLEANER

Toxicity data specific for individual ingredients in their pure state:

Acute oral toxicity

Stoddard solvent

: LD50 rat

> 4,000 mg/kg

Phosphoric acid

: LD50 rat

1,530 mg/kg

Acute inhalation toxicity

Nitric acid

: LC50 rat

> 0.1 mg/l/ 4 h

Phosphoric acid

: LC50 rat

> 0.2 mg/l/ 4 h

Acute dermal toxicity

Stoddard solvent

: LD50 rabbit

> 2,000 mg/kg

Phosphoric acid

: LD50 rabbit

2,740 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:

#### Toxicity to daphnia

• Phosphoric acid

: Species: Daphnia magna (water flea)

EC50: > 100 mg/l/ 96 h

#### Toxicity to bacteria

· Phosphoric acid

Species: Pseudomonas putida (bacteria)

EC50: 270 mg/l/ 16 h

#### 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)

REG\_NOAM 6/10 EN

# CAWO PHOTOCHEMISCHES WERK GMBH

# CAWO PLATE CLEANER

SUBID:000001007221

Version 1

Print Date 04-10-2008

Revision Date 04-09-2008

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). When discarded in its purchased form, this product meets the criteria of corrosivity, and should be managed as a hazardous waste (EPA Hazardous Waste Number D002).

#### SECTION 14. TRANSPORT INFORMATION

CFR ROAD

UN-No : 1993

Proper shipping name : Flammable liquids, n.o.s.

Class : 3 Packing group : III Labelling No. : 3

CFR\_RAIL

UN-No : 1993

Proper shipping name : Flammable liquids, n.o.s.

Class : 3
Packing group : III
Labelling No. : 3

CFR\_INWTR

UN-No : 1993

Proper shipping name : Flammable liquids, n.o.s.

Class : 3
Packing group : III
Labelling No. : 3

TDG\_ROAD

UN-No : 1993

Proper shipping name : Flammable liquid, n.o.s.

Class : 3 Packing group : III Labelling No. : 3

TDG\_RAIL

UN-No : 1993

Proper shipping name : Flammable liquid, n.o.s.

Class : 3
Packing group : III
Labelling No. : 3

TDG INWTR

UN-No : 1993

Proper shipping name : Flammable liquid, n.o.s.

Class : 3
Packing group : III
Labelling No. : 3

IMO / IMDG

REG\_NOAM 7/10 EN

# ) CAWO ∢

#### **CAWO PHOTOCHEMISCHES WERK GMBH**

SUBID:000001007221

# CAWO PLATE CLEANER

30610.000001007221

Version 1

Print Date 04-10-2008

Revision Date 04-09-2008

UN-No : 1993

Proper shipping name : Flammable liquid, n.o.s.

Class : 3
Packing group : III
Labelling No. : 3

EmS : F-E, S-E

ICAO / IATA cargo aircraft only

UN-No : 1993

Proper shipping name : Flammable liquid, n.o.s.

Class : 3 Packing group : III Labelling No. : 3

Packing instruction : 310

ICAO / IATA passenger and cargo aircraft

UN-No : 1993

Proper shipping name : Flammable liquid, n.o.s.

Class : 3
Packing group : III
Labelling No. : 3
Packing instruction : 309

The DOT 49 CFR173.150(F)(1) states that if the quantity is non bulk packaging (< 119 gallons) the material can be shipped as non-regulated unless the combustible liquid is a hazardous substance or a hazardous waste.

#### 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. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)

Nitric acid : Threshold Planning Quantity: 1,000 lbs

#### US, SARA 311/312 Hazard Categories

Immediate 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

REG NOAM	8/10	EN

# CAWO (

# CAWO PLATE CLEANER

**CAWO PHOTOCHEMISCHES WERK GMBH** SUBID:000001007221

Version 1

Print Date 04-10-2008

Revision Date 04-09-2008

 Nitric acid : De minimis concentration: 1.0 % : Reportable threshold: 10,000 lbs

: Reportable threshold: 25,000 lbs

#### US. EPA CERCLA Hazardous Substances (40 CFR 302)

: Reportable quantity: 1,000 lbs Nitric acid Reportable quantity: 5,000 lbs · Phosphoric acid

#### 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)

	CAS-No.	<u>Concentra</u>	<u>ıtion</u> [%]
Nitric acid	7697-37-2	>= 1.0 -	<= 5.0
<ul> <li>Phosphoric acid</li> </ul>	7664-38-2	>= 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>Concentra</u>	<u>tion</u> [%]
Phosphoric acid	7664-38-2	>= 1.0 -	<= 5.0

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

		CAS-No.	<u>Concentration</u>	
•	Nitric acid	7697-37-2	>= 1.0 -	<= 5.0
•	Phosphoric acid	7664-38-2	>= 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>	Concentration [%]		
•	Nitric acid	7697-37-2	>= 1.0 -	<= 5.0	
•	Phosphoric acid	7664-38-2	>= 1.0 -	<= 5.0	

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

#### Canadian WHMIS Classification

: Combustible Liquid

D2B : Toxic Material Causing Other Toxic Effects

#### Canadian Environmental Protection Act (CEPA)

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

	· · · · · · · · · · · · · · · · · · ·	
REG NOAM	0/10	⊏NI
E REG NUAW	9/10	LIN

CAWO PLATE CLEANER



### CAWO PHOTOCHEMISCHES WERK GMBH

SUBID:000001007221

Version 1

Print Date 04-10-2008

Revision Date 04-09-2008

#### SECTION 16. OTHER INFORMATION

#### **US. HMIS Rating**

Health	:	2
Flammability	:	2
Reactivity	:	0

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

#### US. NFPA 704M Rating

Health	:	2
Flammability	:	2
Reactivity	:	0

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