

MATERIAL SAFETY DATA SHEET

Catalogue N°: 932517

Date: 11/01/1999

Page:

1 / 4

Date previous version: 22/01/1998

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**Chemical identity :*****FLASH_O GRAPH FIXER 5L*****Producer / Distributor :**FUJI HUNT Photographic
Chemicals N.V.
Europark Noord 21-22
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2. COMPOSITION / INFORMATION ON INGREDIENTS

This is a liquid preparation in which mainly inorganic compounds are dissolved in water. The basic ingredients are:

w/w%	Chemical Name			
	Symb.	R-phrases	CAS N°	EINECS N°
45-50	AMMONIUM THIOSULPHATE	58%	AMMONIUM THIOSULFAAT	58
-			7783-18-8	231-982-0
5-10	SODIUM SULPHITE PHOTO		NATRIUM SULFIET	
-			7757-83-7	231-821-4
1-5	ACETIC ACID 75 % SOL.		AZIJNZUUR 75% W/W, 80%	
C	10-35		64-19-7	200-580-7

3. HAZARDS IDENTIFICATION**EU classification :**

Not classified as a hazardous product conform EEC Dangerous Substances Directive and Dangerous Preparation Directive.

Most important hazards :**4. FIRST AID MEASURES****Inhalation :**

Move the victim to fresh air.

Skin contact :

Flush with plenty of water. Remove contaminated clothing.

Eye contact :

Rinse eyes thoroughly with water until irritation stops.

In all cases seek medical advise.

Ingestion :

Rinse mouth with plenty of water. Give victim considerable amounts of water to drink.

Other :

No typical symptoms and effects known.

Advice to physician :**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media :**

Only use extinguishing media which are compatible with the surrounding materials.

Water, waterspray, Carbon Dioxide, dry powder, foam, sand.

Unsuitable extinguishing media :

All extinguishing media are allowed.

Special exposure hazards :

In case of a fire and/or explosion do not breathe fumes.

Hazardous decomposition/combustion products :Formation of NH₃, NO_x, H₂S, SO₂ is possible.

FLASH_O GRAPH FIXER 5L

Catalogue N°: 932517

Date: 11/01/1999

Page:

2 / 4

Protective equipment :

Use approved positive pressure self-contained breathing apparatus when material is involved in a fire.

Further instructions :

Contaminated extinguishing water should be disposed of in a manner approved by the EEC, country and local regulatory agencies.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions :

Wear personal protective clothing. (see § 8)

When vapours, mist or aerosols are formed, wear suitable respiratory protection.

Environmental precautions :

In case of an accident, avoid the release of product into the environment.

Prevent the product getting into the sewerage system or public waterway. Try to collect as much as possible in an approved container for later disposal.

Methods for cleaning up :

Action may only be taken when fully protected. Contain the area of spillage.

Stop the source of leak. Large amounts should be pumped into a container.

Carefully collect as much as possible of the liquid into a suitable container. The product can be collected with absorbing materials. Small remaining leftovers may be washed away with large amounts of water.

7. HANDLING AND STORAGE

Handling :

Working areas and methods should be organized in such a way that direct contact is avoided. Wear protective clothing.

Emergency-shower and facilities for rinsing eyes must be accessible.

Fire and explosion prevention :

This preparation contains a lot of water and does not show any flammable or explosive properties. No special fire and explosion prevention are necessary

Storage requirements :

Store in a dry, cool, well ventilated place away from all ignition and heating sources. Keep the package closed if not in use.

Storage temperature should be higher than +5°C.

Other information :

Always store in the original container.

Do not use the empty contaminated container for other purposes.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls :

Ensure good ventilation and local exhaustion of the working area.

Exposure limits :

Personal protection :

Inhalation :

No special breathing protection is necessary.

Skin contact :

Wear suitable impervious rubber gloves.

Eye contact :

Wear close fitting safety goggles.

Ingestion :

When handling these chemicals, do not eat, drink or smoke.

Other information :

Always follow the mixing instructions strictly when water or other solutions have to be added to the preparation.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Liquid
Colour	:
Odour	:
Boiling point/range	: Not determined
Melting point/range	: Not relevant
Flash point °C	: Not relevant
Flammability	: Not relevant
Autoignition temperature	: Not relevant
Explosive limit lower	: Not relevant
Explosive limit upper	:

FLASH_O GRAPH FIXER 5L

Catalogue N°: 932517

Date: 11/01/1999

Page:

3 / 4

Oxidizing properties	: Not determined
Vapour pressure (20°C)	: Not determined
Density (20°C) Kg/L	: 1.352
Solubility in water (25°C)	: Completely
Solubility in other solvents	: Not determined
pH value (25°C)	: 5.1
pH solution in water	: Not determined
Partition coefficient n-octanol/water	: Not determined
Viscosity	: As water
Other information	:

10. STABILITY AND REACTIVITY

Stability :

The product is stable under normal storage conditions.

The product may become unstable when it is heated. In this case fumes and vapours may be released.

Conditions to avoid :

Do not mix with acid or alkaline products.

Materials to avoid :

The product is not dangerous for various kinds of materials.

Hazardous decomposition products :

Only when the product is involved in a fire, or when it is handled in an incorrect manner, there is a possibility that decomposition products will be generated. (see § 5)

11. TOXICOLOGICAL INFORMATION

Acute toxicity :

AMMONIUM THIOSULPHATE 58% AMMONIUM THIOSULFAAT 58%

LD50 (Oral Rat) = 2890 mg/kg

SODIUM SULPHITE PHOTO NATRIUM SULFIET

LD50 (Oral Rat) = 2600 mg/kg

ACETIC ACID 75 % SOL. AZIJNZUUR 75% W/W, 80% VOLUME

LD50 (Oral Rat) = 3310 mg/kg

Different routes of exposure, health warnings :

Inhalation :

Avoid breathing mist, vapour or aerosols.

Ventilation as required to keep airborne concentrations low.

Skin contact :

Avoid contact with skin.

Eye contact :

Eye contact can cause irritation.

Ingestion :

There are no specific exposure limits determined for this preparation. It is not very likely that this product would be ingested.

Other information :

12. ECOLOGICAL INFORMATION

Information about elimination :

Information about environmental compartments :

Ecotoxicity :

AMMONIUM THIOSULPHATE 58% AMMONIUM THIOSULFAAT 58%

LC50 (96 hours) = 200 mg/l

SODIUM SULPHITE PHOTO NATRIUM SULFIET

LC50 (96 hours) = 220 mg/l

ACETIC ACID 75 % SOL. AZIJNZUUR 75% W/W, 80% VOLUME

LC50 (96 hours) = 10 mg/l

Other information :

13. DISPOSAL CONSIDERATIONS

Product or contaminated product :

All leftovers, waste or used contaminated products will have to be treated as chemical waste.

Contaminated package :

Contaminated package should be disposed of in accordance with local and national regulations.

FLASH_O GRAPH FIXER 5L

Catalogue N°: 932517

Date: 11/01/1999

Page:

4 / 4

Other information :

We recommend the separation of any waste resulting from this product.
It can be dangerous when different chemical products are mixed together.

14. TRANSPORT INFORMATION

UN N° : -

Description : NON HAZARDOUS LIQUID

ADR/RID	Class : NA	Item : : NA	TREMCARD : NA
IMDG/ADNR	Class : NA	Page : : NA	EmS : NA
	Pack.gr. : NA		MFAG : NA
ICAO/IATA	Class : NA	Pass.< : NA	Instr. : NA
	Pack.gr. : NA	Cargo< : NA	Instr. : NA

NA = Not Applicable

15. REGULATORY INFORMATION

Chemical identity : -

Warning sign EU :

Not applicable.

Symbol(s) :**R(isk) phrase(s) :**

R_

S(afety) phrase(s) :

S_

Exposure limits :**Other information :****16. OTHER INFORMATION**

The information in this MSDS is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations.