

## **MATERIAL SAFETY DATA SHEET (MSDS)**

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : ILFORD GALERIE FineArt protect **【Nozzle】**  
 Name of Manufacturer : ILFORD Japan Co.,Ltd.  
 Address : 19-1 Narihira 2-Chome,Sumida-ku, Tokyo Japan  
 Name of Section : TECHNICAL&MARKETING DIV.  
 Phone Number : 81-3-3625-7380  
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 SDS No. : MW166904-01

### 2. HAZARDS IDENTIFICATION

The most important dangerous harmful effect: It's the liquid it's easy to catch fire from which, inflammables.

#### GHS classification

#### Physical-chemistry-like danger:

Inflammable fluid 3

#### Harmful effect to health:

Acute toxicity (oral toxicity): None

Skin corrosive nature/stimulative: None

Severe damage to eyes and ocular stimulative: 2B

Generative cell mutation primeval: 1B

Reproductive toxicity: 1B

Specific mark viscera/the whole body toxicity

(Single time disclosure): 2

Specific mark viscera/the whole body toxicity

(Repetition disclosure): 1 , 2

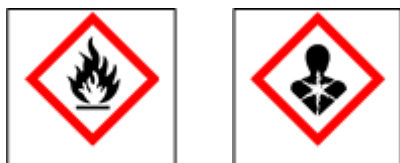
※ Danger/a harmful effect has danger/so high bigness of the harmful effect (division) that a number is small.

Or the dangerous harmful effect by which mentioning isn't on※ "can't classify"

"classification applying".

#### GHS Label Elements

**Symbol(s)**



**Signal word:**

Danger

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Product description: This product is a mixture.

INGREDIENTS	% by weight	CAS. No	EINECS
Water	60-80%	7732-18-5	231-791-2
Ethyl alcohol	15-20%	64-17-5	200-578-6
Acrylic acid ester copolymer	5-15%	---	---
Fluorochemical surfactant	< 3%	---	---
Ester compound	< 3%	---	---

**4. FIRST-AID MEASURES**

Inhalation : Remove patient from exposure, keep warm and at rest Obtain medical attention if ill effects occur

Skin Contact : Remove contaminated clothing

Wash skin with water

If symptoms develop, obtain medical attention

Eye Contact : Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 10 minutes

Obtain medical attention if ill effects occur

Ingestion : Wash out mouth with water

Obtain medical attention if ill effects occur

**5. FIRE AND EXPLOSION HAZARD DATA**

An extinguishing agent:

Early stage fire extinction uses carbonic acid gas, a powder fire extinguisher and resistance to alcohols bubble extinguisher.

Peculiar fire extinguishing method:

When it's the surrounding fire, if possible, a container is moved to the safe place.

I make a person unrelated to a protection against disasters relation retire to a safe place promptly.

It's considered so that the substances which leaked and extinguishing agents, etc. aren't discharged for a river.

I fight a fire as much as possible from windward.

Protection of the person who extinguishes a fire:

Appropriate protection equipment (respiratory protective device) is put on by fire fighting.

## **6. ACCIDENTAL RELEASE MEASURES**

Notice to a human body, protection equipment and emergency measure:

Appropriate protection equipment is put on in case of work. (Item of "8. Disclosure prevention and protection measure" Referring)

Notice to the environment:

It's considered so that a leakage thing isn't discharged for a river.

Ventilation according to the need is secured.

Way of sealing and a purge and machinery and materials:

A great deal of leakage:

When not involving risk, if possible, leakage is stopped. When being possible, I hold a leakage thing back, cover with plastics sheet and prevent the spread. I make an incombustible of expanded vermiculite, sand and dirt absorb it, and collects in an appropriate container and disposes by an appropriate way after that. It's scoured with water enough after collection.

A little leakage:

It's wiped up by an absorbent (example: Cloth and absorption seat), and it's cleaned and pollution is taken carefully after that.

## **7. HANLDING AND STORAGE**

Handling:

I take a measure technically:

I decide to touch skin, a mucous membrane and putting and put it in eyes.

After treating, a hand and a face are often washed.

Local exhaust and the whole exhaust:

A workshop is ventilated enough.

A notice:

Item referring of "8. Disclosure prevention and protection measure".

Safe handling notice: Item referring of "10. Stability and reaction".

Safekeeping:

The appropriate safekeeping condition: I avoid the direct sunlight, shut in the cool place and keep.

Contamination prohibited substance:

Item referring of "10. Stability and reaction".

Safe container wrapping material:

Plastic ware with the enough strength is used.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### ENGINEERING CONTROLS

Equipment measure:

A workshop is ventilated sufficiently. After installing the equipment which is handing wash near the workshop and for washing the face and treating, a hand and a face are often washed.

The management density of the component and allowable concentration:

Allowable concentration Hygienic meeting.

A component name	CAS No.	ACGIH TLV.
Ethanol	64-17-5	1880mg/m <sup>3</sup> (TWA).
Acrylic acid ester copolymer	Not determined	None setting
Fluor chemical surfactant	Not determined	None setting
Ester compound	Not determined	None setting

Protection equipment:

Protection equipment of the respiratory organ:

Appropriate respiratory protective device (masks) is put on as the need arises.

Protection equipment of a hand: An appropriate protective rubber gloves is put on.

Ocular protection equipment:

Safety glasses are put on. Face protection equipment is put on as the need arises.

Protection equipment of skin and a body:

Appropriate protection clothes (rubber aprons) are put on as the need arises.

Appropriate sanitary measure:

I don't have during work and smoke. I eat and drink and wash a hand with soap enough before smoking.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

The outward appearance

Form:	Liquid
Color:	Milky White
Odor:	Alcohol odor
pH –Value	6.5-8
The melting point and the freezing point:	Not available
Boiling point, and boiling area:	Not available
The flash point:	39 °C
The spontaneous combustion temperature (flash point):	Not available
Burning or explosive range Minimum:	Not available
The upper limit:	Not available
Vapor pressure:	Not available
The steamy density:	Not available
Density	0.98
Resolvability (vs., water):	Soluble.
Octanol/water partition coefficient	Not available
Without resolution thermal data	
Viscosity:	Not available

## 10. STABILITY AND REACTIVITY

Stability:

It's stable by usual conditions for use.

Dangerous harmful reaction possibility:

None

The condition that it should be avoided:

Fire is avoided.

A freeze and the direct sunlight are avoided.

Contamination dangerous goods matter:

None

The degradation product harmful dangerously:

Nitrogen oxides, carbon monoxide and carbonic acid gas

Other information:

None

## 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity (LD50): >5000mg/kg (the calculation value)

Skin irritation:	There is a fear that skin is irritated.
Ocular stimulative:	Ocular stimulus
Fear of generative cell mutation primeval:	hereditary disorder
Reproductive toxicity:	
Fear of a genital Noh play or bad influence to a fetus	
Specific mark organ toxicity (single time disclosure):	
Fear of an obstacle of an organ (central nerve system)	
Specific mark organ toxicity (repetition disclosure):	
Obstacle of an organ by long term or repetition disclosure (liver)	
Fear of an injury of an organ by long term or repetition disclosure (renal disease, nerve and central nerve system)	
Other information:	None

## 12. ECOLOGICAL INFORMATION

### Ecology toxicity

Aquatic environment acute harmful effect:	Not available
Aquatic environment chronic harmful effect:	Not available
Remains Resolvability:	Not available
Living body accumulation:	Not available
Migratory in the ground:	Not available
Harmful effect to an ozone layer:	
Ozone depletion substance:	
	There is no containing of a listed ingredient in an appendix of Montreal Protocol.
Other harmful influence:	Not available

## 13. DISPOSAL CONSIDERATION

Disposal methods : This material and its container must be disposed of in a safe way.

Dispose according to a country and local rule.

## 14. INFORMATION OF TRANSPORT

There is not the danger in particular for the transportation.

DOT (US)

Not dangerous

IMDG

Non dangerous goods

IATA

Non dangerous goods

## 15. REGULATORY INFORMATION

### OSHA Hazards

Flammable Liquid, Target Organ Effect, Irritant, Carcinogen

United States Regulatory Information

Canada Regulatory Information

Whmis Classification: This Product Has Been Classified In Accordance With The Hazard Criteria Of The Cpr, And The Msds Contains All The Information Required By The Cpr.

DSL: No

Ndsl: No

### California Prop. 65 Components

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

Reproductive harm.

## 16. OTHER INFORMATION

Volume per unit : 500ml

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The information herein is given in good faith, but no warranty, express or implied, is made.

The information contained herein is, to the best of knowledge and belief, accurate and reliable as of the data issued.

It is the user's responsibility to determine the suitability of this information for the adoption of necessary safety precautions.

We reserve the right to revise MSDS periodically as new information becomes available.

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