

## Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 31.03.2025

Version number 1

Revision: 31.03.2025

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name: NYLO RETARDER**
- **Article number: ZE806**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** screen printing ink
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
EU Distributor-FUJIFILM EUROPE BV.  
Oudenstaart 1, 5047 TK Tilburg,  
Netherlands  
Tel: +31 13 579 19 11
- **Further information obtainable from:**  
msds\_eu@fujifilm.com  
Telephone number +49 (0)2102 5364 219
- **1.4 Emergency telephone number:**  
DE: Giftinformationszentrum-Nord: Giftnotruf +49 (0) 551-19240  
EN: The UK National Poisons Emergency number is 0870 600 6266 (Outside the UK: +44 870 600 6266) NB these services are only available to health professionals  
FR: Centre Antipoison et de Toxicovigilance de Paris Tel. +33 1 40 05 48 48  
ES: Servicio de Información Toxicológica, Instituto Nacional de Toxicología Tel: +34 91 562 04 20

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS08 health hazard

Asp. Tox. 1      H304 May be fatal if swallowed and enters airways.



GHS09 environment

Aquatic Chronic 2   H411 Toxic to aquatic life with long lasting effects.



GHS07

Acute Tox. 4      H332 Harmful if inhaled.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS07



GHS08



GHS09

- **Signal word** Danger
- **Hazard statements**  
H332 Harmful if inhaled.  
H304 May be fatal if swallowed and enters airways.  
H411 Toxic to aquatic life with long lasting effects.

(Contd. on page 2)

# Safety data sheet

## according to Regulation (EC) No 1907/2006, Article 31

Printing date 31.03.2025

Version number 1

Revision: 31.03.2025

**Trade name: NYLO RETARDER**

(Contd. of page 1)

**Precautionary statements**

- P261 Avoid breathing mist.
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
- P331 Do NOT induce vomiting.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**2.3 Other hazards****Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

**SECTION 3: Composition/information on ingredients****3.2 Mixtures****Dangerous components:**

EC number: 922-153-0 Reg.nr.: 01-2119451097-39	Alkyl(C3-C8) Benzene ----- Asp. Tox. 1, H304 Aquatic Chronic 2, H411	60-80%
	Glycol monobutyl ether acetate ----- Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	20-30%
CAS: 91-20-3 EINECS: 202-049-5	naphthalene ----- Carc. 2, H351 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Acute Tox. 4, H302	<1%

**Additional information:**

This product does not contain substances of very high concern (SVHC) in a concentration  $\geq 0.1\%$  (Regulation (EC) 1907/2006 (REACH), Article 59).  
For information about ingredients with occupational exposure limits see section 8.  
For the wording of the listed hazard phrases refer to section 16.

**SECTION 4: First aid measures****4.1 Description of first aid measures****General information:**

Immediately remove any clothing soiled by the product.  
Do not leave affected persons unattended.

**After inhalation:**

Supply fresh air; consult doctor in case of complaints.  
In case of unconsciousness place patient stably in side position for transportation.  
Seek medical treatment.

**After skin contact:**

Immediately wash with water and soap and rinse thoroughly.  
Do NOT use solvents or thinners.  
Immediately remove any clothing soiled by the product.

**After eye contact:**

Rinse opened eye for several minutes under running water. Then consult a doctor.  
Protect unharmed eye.

**After swallowing:**

Do not induce vomiting; call for medical help immediately.  
A person vomiting while laying on their back should be turned onto their side.  
Keep warm, position comfortably and cover well.

**4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

(Contd. on page 3)

# Safety data sheet

## according to Regulation (EC) No 1907/2006, Article 31

Printing date 31.03.2025

Version number 1

Revision: 31.03.2025

**Trade name: NYLO RETARDER**

(Contd. of page 2)

- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.  
Metallic inks:  
Special powder for metal fires. Do not use water.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**  
During heating or in case of fire poisonous gases are produced.
- **5.3 Advice for firefighters**  
Cool endangered receptacles with water spray.  
Collect contaminated fire fighting water separately. It must not enter the sewage system.
- **Protective equipment:**  
Do not inhale explosion gases or combustion gases.  
Wear self-contained respiratory protective device.
- **Additional information**  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation  
Remove persons from danger area.
- **6.2 Environmental precautions:**  
Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of the material collected according to regulations.  
Clean the affected area carefully; suitable cleaners are:  
Warm water and cleansing agent
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Avoid close or long term contact with the skin.  
Wash hands before breaks and at the end of work.  
Do not eat or drink while working.  
Avoid contact with the eyes.  
See Section 8 for information on personal protection equipment.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Store in cool, dry conditions in well sealed receptacles.  
Store only in the original receptacle.
- **Information about storage in one common storage facility:**  
Do not store together with oxidising and acidic materials.
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Protect from heat and direct sunlight.

(Contd. on page 4)

# Safety data sheet

## according to Regulation (EC) No 1907/2006, Article 31

Printing date 31.03.2025

Version number 1

Revision: 31.03.2025

Trade name: NYLO RETARDER

· **7.3 Specific end use(s)** No further relevant information available.

(Contd. of page 3)

### SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

Observe national legislation

**Glycol monobutyl ether acetate (20-30%)**

IOELV	Short-term value: 333 mg/m <sup>3</sup> , 50 ppm
	Long-term value: 133 mg/m <sup>3</sup> , 20 ppm
	Skin

**91-20-3 naphthalene (<1%)**

IOELV	Long-term value: 30 mg/m <sup>3</sup> , 10 ppm
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· **8.2 Exposure controls**

· **Appropriate engineering controls**

Provide adequate ventilation.

This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation.

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Immediately remove all soiled and contaminated clothing

Store protective clothing separately.

Avoid contact with the skin.

Do not eat or drink while working.

· **Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation.

· **Hand protection**

Protective gloves

Check protective gloves prior to each use for their proper condition.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves** Butyl rubber, BR

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye/face protection** Safety glasses

· **Body protection:** Protective work clothing

### SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Physical state**

Liquid

· **Colour:**

According to product specification

· **Odour:**

Specific type

· **Odour threshold:**

Not determined.

· **Melting point/freezing point:**

Undetermined.

· **Boiling point or initial boiling point and boiling range**

184-195 °C (Glycol monobutyl ether acetate)

· **Flammability**

Not applicable.

· **Lower and upper explosion limit**

· **Lower:**

1.7 Vol % (Glycol monobutyl ether acetate)

· **Upper:**

8.4 Vol % (Glycol monobutyl ether acetate)

· **Flash point:**

88 °C

· **Auto-ignition temperature:**

280 °C (Glycol monobutyl ether acetate)

(Contd. on page 5)

# Safety data sheet

## according to Regulation (EC) No 1907/2006, Article 31

Printing date 31.03.2025

Version number 1

Revision: 31.03.2025

Trade name: NYLO RETARDER

(Contd. of page 4)

· <b>Decomposition temperature:</b>	Not determined.
· <b>pH</b>	Mixture is non-polar/aprotic.
· <b>Viscosity:</b>	
· <b>Kinematic viscosity</b>	Not determined.
· <b>Dynamic:</b>	Not determined.
· <b>Solubility</b>	
· <b>water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient n-octanol/water (log value)</b>	Not determined.
· <b>Vapour pressure at 20 °C:</b>	0.4 hPa (Glycol monobutyl ether acetate)
· <b>Density and/or relative density</b>	
· <b>Density at 20 °C:</b>	0.96 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.

· <b>9.2 Other information</b>	
· <b>Appearance:</b>	
· <b>Form:</b>	Not determined.
· <b>Important information on protection of health and environment, and on safety.</b>	
· <b>Ignition temperature:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Product does not present an explosion hazard.
· <b>Solvent content:</b>	
· <b>Organic solvents:</b>	20-30 %
· <b>Change in condition</b>	
· <b>Evaporation rate</b>	Not determined.

· <b>Information with regard to physical hazard classes</b>	
· <b>Explosives</b>	Void
· <b>Flammable gases</b>	Void
· <b>Aerosols</b>	Void
· <b>Oxidising gases</b>	Void
· <b>Gases under pressure</b>	Void
· <b>Flammable liquids</b>	Void
· <b>Flammable solids</b>	Void
· <b>Self-reactive substances and mixtures</b>	Void
· <b>Pyrophoric liquids</b>	Void
· <b>Pyrophoric solids</b>	Void
· <b>Self-heating substances and mixtures</b>	Void
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
· <b>Oxidising liquids</b>	Void
· <b>Oxidising solids</b>	Void
· <b>Organic peroxides</b>	Void
· <b>Corrosive to metals</b>	Void
· <b>Desensitised explosives</b>	Void

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

EU

(Contd. on page 6)

# Safety data sheet

## according to Regulation (EC) No 1907/2006, Article 31

Printing date 31.03.2025

Version number 1

Revision: 31.03.2025

Trade name: NYLO RETARDER

(Contd. of page 5)

**SECTION 11: Toxicological information**

The Preparation is classified according to the conventional method (calculation method of the CLP Regulation EEC 1272/2008).

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in desiccation of the skin.

The liquid splashed in the eyes may cause strong irritation and reversible damage.

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Harmful if inhaled.

- **LD/LC50 values relevant for classification:**

**Glycol monobutyl ether acetate**

Oral	LD50	2,400 mg/kg (rat)
Dermal	LD50	1,580 mg/kg (rabbit)

**91-20-3 naphthalene**

Oral	LD50	5,000 mg/kg (rat)
Dermal	LD50	5,000 mg/kg (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** May be fatal if swallowed and enters airways.

- **11.2 Information on other hazards**

- **Endocrine disrupting properties**

None of the ingredients is listed.

**SECTION 12: Ecological information**

The product should not be allowed to enter drains or water courses or the soil.

- **12.1 Toxicity**

- **Aquatic toxicity:**

**Glycol monobutyl ether acetate**

EC50/72 h	>500 mg/l (algae)
LC50/48 h	80 mg/l (lci)

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**  
The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **General notes:** Toxic for aquatic organisms

EU

(Contd. on page 7)

# Safety data sheet

## according to Regulation (EC) No 1907/2006, Article 31

Printing date 31.03.2025

Version number 1

Revision: 31.03.2025

Trade name: NYLO RETARDER



(Contd. of page 6)

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **European waste catalogue** 08 03 12\* waste ink containing dangerous substances
- **Uncleaned packaging:**
- **Recommendation:**  
Disposal must be made according to official regulations.  
Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.  
Packagings that may not be cleansed are to be disposed of in the same manner as the product.

### SECTION 14: Transport information

Transport only in accordance with ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport.

<ul style="list-style-type: none"> <li>· <b>14.1 UN number or ID number</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>	UN3082
<ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG</b></li> <li>· <b>IATA</b></li> </ul>	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Alkyl(C3-C8) Benzene) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Alkyl(C3-C8) Benzene, naphthalene), MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Alkyl(C3-C8) Benzene)
<ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul> <div style="display: flex; align-items: center; gap: 10px;">   </div> <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	9 Miscellaneous dangerous substances and articles. 9
<ul style="list-style-type: none"> <li>· <b>14.4 Packing group</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>	III
<ul style="list-style-type: none"> <li>· <b>14.5 Environmental hazards:</b></li> <li>· <b>Marine pollutant:</b></li> <li>· <b>Special marking (ADR):</b></li> <li>· <b>Special marking (IATA):</b></li> </ul>	Symbol (fish and tree) Symbol (fish and tree) Symbol (fish and tree)
<ul style="list-style-type: none"> <li>· <b>14.6 Special precautions for user</b></li> <li>· <b>Hazard identification number (Kemler code):</b></li> <li>· <b>EMS Number:</b></li> <li>· <b>Stowage Category</b></li> </ul>	Warning: Miscellaneous dangerous substances and articles. 90 F-A,S-F A
<ul style="list-style-type: none"> <li>· <b>14.7 Maritime transport in bulk according to IMO instruments</b></li> </ul>	Not applicable.

(Contd. on page 8)

EU

# Safety data sheet

## according to Regulation (EC) No 1907/2006, Article 31

Printing date 31.03.2025

Version number 1

Revision: 31.03.2025

Trade name: NYLO RETARDER

(Contd. of page 7)

· **Transport/Additional information:**

· **ADR**

- Limited quantities (LQ)
- Excepted quantities (EQ)

5L  
Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml

- **Transport category**
- **Tunnel restriction code**
- **Remarks:**

3  
(-)  
Special provision 375 according to ADR can be applied for this product during road transport for a net quantity  $\leq 5$  kg.

· **IMDG**

- Limited quantities (LQ)
- Excepted quantities (EQ)

5L  
Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml  
Section 2.10.2.7 according to the IMDG Code can be applied for this product during sea transport for a net weight  $\leq 5$  kg

- **Remarks:**

· **IATA**

- **Remarks:**

Special provision A197 according to the IATA DGR can be applied for this product during air freight transport for a net quantity  $\leq 5$  kg

- **UN "Model Regulation":**

UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ALKYL(C3-C8) BENZENE), 9, III

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

No further relevant information available.

- **Directive 2012/18/EU**

- **Named dangerous substances - ANNEX I** None of the ingredients is listed.

- **Seveso category E2** Hazardous to the Aquatic Environment

- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t

- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t

- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

- **REGULATION (EU) 2019/1148**

- **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

- **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

- **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

(Contd. on page 9)

EU

# Safety data sheet

## according to Regulation (EC) No 1907/2006, Article 31

Printing date 31.03.2025

Version number 1

Revision: 31.03.2025

Trade name: NYLO RETARDER

(Contd. of page 8)

- **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

- **National regulations:**

- **Technical instructions (air):**

Class	Share in %
NK	20-30

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

It is always the responsibility of the user to take all necessary steps in order to fulfil the demands laid down in the local rules and legislation.

The information in this MSDS is meant as a description of safety requirements of our product; it is not to be considered as a guarantee of the product's properties.

- **Date of previous version:** 31.03.2025

- **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4

Carc. 2: Carcinogenicity – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

- **\* Data compared to the previous version altered.**

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