

Safety Data Sheet

according to Regulation (EC) No 1907/2006

GEL POLISH NuSo FG -01-9999 und FG GN 01-9999 2.0

Revision date: 29.11.2024

Page 1 of 17

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Soak off GEL POLISH NuSo FG -01-9999 und FG GN 01-9999 2.0

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**Professional use.
Nail polish and gels**Uses advised against**

Any non-intended use.

1.3. Details of the supplier of the safety data sheet

Company name:	UNIQUE NAILS
Street:	Ipsountos 7
Place:	Athens, Greece
Telephone:	+302108656070
E-mail:	info@unique-cosmetics.com
Internet:	www.unique-cosmetics.com

1.4. Emergency telephone number:

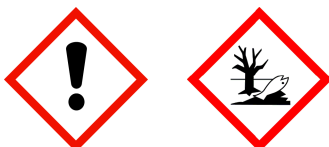
+306936040550

Further Information

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No 2020/878)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**Skin Irrit. 2; H315
Eye Irrit. 2; H319
Skin Sens. 1; H317
Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

2.2. Label elements**Regulation (EC) No 1272/2008****Hazard components for labelling**propylidynetrimethanol, ethoxylated, esters with acrylic acid
Aliphatic difunctional urethane Acrylate
Urethane methacrylate
Phenol, ethoxylated, esters with acrylic acid (4-EO)
Ethylphenyl(2,4,6-trimethylbenzoyl)phosphinate
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid
2,2'-ethylenedioxydiethyldimethacrylate
2-hydroxypropyl methacrylate**Signal word:** Warning**Pictograms:**

Safety Data Sheet

according to Regulation (EC) No 1907/2006

NuSo FG -01-9999 und FG GN 01-9999 2.0

Revision date: 29.11.2024

Page 2 of 17

Hazard statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501	Dispose of contents/container to local/regional/national/international regulations.

2.3. Other hazards

The substances in the mixture (> 0.1%) do not meet the PBT/vPvB criteria according to REACH, annex XIII. This product does not contain a substance (> 0,1%) that has endocrine disrupting properties with respect to humans as no components meets the criteria. This product does not contain a substance (> 0,1 %) that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Nail modeling gel

Relevant ingredients

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
28961-43-5	propylidynetrimethanol, ethoxylated, esters with acrylic acid			20 - < 25 %
	500-066-5		01-2119489900-30	
	Eye Irrit. 2, Skin Sens. 1B, Aquatic Chronic 3; H319 H317 H412			
-	Aliphatic difunctional urethane Acrylate			15 - < 20 %
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H315 H319 H317			
-	Urethane methacrylate			15 - < 20 %
	934-759-2			
	Skin Sens. 1, Aquatic Chronic 2; H317 H411			
56641-05-5	Phenol, ethoxylated, esters with acrylic acid (4-EO)			7 - < 10 %
	500-133-9			
	Skin Sens. 1; H317			
84434-11-7	Ethylphenyl(2,4,6-trimethylbenzoyl)phosphinate			3 - < 5 %
	282-810-6			
	Skin Sens. 1B, Aquatic Chronic 2; H317 H411			
55818-57-0	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid			3 - < 5 %
	500-130-2		01-2119490020-53	
	Skin Sens. 1, Aquatic Chronic 2; H317 H411			
109-16-0	2,2'-ethylenedioxydiethyldimethacrylate			3 - < 5 %
	203-652-6		01-2119969287-21	

Safety Data Sheet

according to Regulation (EC) No 1907/2006

NuSo FG -01-9999 und FG GN 01-9999 2.0

Revision date: 29.11.2024

Page 3 of 17

	Skin Sens. 1B; H317	
923-26-2	2-hydroxypropyl methacrylate	0.3 - < 0.5 %
	213-090-3	607-125-00-5
	Eye Irrit. 2, Skin Sens. 1; H319 H317	
110-82-7	cyclohexane	< 0.1 %
	203-806-2	601-017-00-1
	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1; H225 H315 H336 H304 H400 H410	
108-88-3	toluene	< 0.1 %
	203-625-9	601-021-00-3
	Flam. Liq. 2, Repr. 2, Skin Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1; H225 H361d H315 H336 H373 H304	
110-82-7	cyclohexane	< 0.1 %
	203-806-2	601-017-00-1
	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1; H225 H315 H336 H304 H400 H410	

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
28961-43-5	500-066-5	propylidynetrimethanol, ethoxylated, esters with acrylic acid	20 - < 25 %
		dermal: LD50 = >5000 mg/kg; oral: LD50 = (>2000) mg/kg	
55818-57-0	500-130-2	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	3 - < 5 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg	
109-16-0	203-652-6	2,2'-ethylenedioxydiethyldimethacrylate	3 - < 5 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = 10837 mg/kg	
108-88-3	203-625-9	toluene	< 0.1 %
		inhalation: LC50 = 49 mg/l (vapours); dermal: LD50 = 12200 mg/kg	
110-82-7	203-806-2	cyclohexane	< 0.1 %
		inhalation: LC50 = >19,07 mg/l (vapours); dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 mg/kg	

Further Information

Product does not contain listed SVHC substances > 0.1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH).

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In all cases of doubt, or when symptoms persist, seek medical advice.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. In case of skin irritation, seek medical treatment.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of troubles or persistent symptoms,

Safety Data Sheet

according to Regulation (EC) No 1907/2006

NuSo FG -01-9999 und FG GN 01-9999 2.0

Revision date: 29.11.2024

Page 4 of 17

consult an ophthalmologist. Immediately call a POISON CENTER.

After ingestion

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting.
In all cases of doubt, or when symptoms persist, seek medical advice.

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

See sections 2 and 11

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Sand. Foam. Carbon dioxide (CO₂). Extinguishing powder. In case of major fire and large quantities: Water spray jet. Water mist.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Can be released in case of fire: Carbon dioxide (CO₂). Carbon monoxide (CO). Nitrogen oxides (NO_x).

5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes. In case of fire: Wear self-contained breathing apparatus.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.
Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****General advice**

See protective measures under point 7 and 8.

For non-emergency personnel

Wear personal protection equipment (refer to section 8).

For emergency responders

No special measures are necessary.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Eliminate leaks immediately. Prevent spread over a wide area (e.g. by containment or oil barriers). Do not allow to enter into soil/subsoil. If required, notify relevant authorities according to all applicable regulations.

6.3. Methods and material for containment and cleaning up**For containment**

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
Treat the recovered material as prescribed in the section on waste disposal.

For cleaning up

Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Safety Data Sheet

according to Regulation (EC) No 1907/2006

NuSo FG -01-9999 und FG GN 01-9999 2.0

Revision date: 29.11.2024

Page 5 of 17

Advice on safe handling

Wear suitable protective clothing. (See section 8.)

Advice on protection against fire and explosion

Usual measures for fire prevention.

Advice on general occupational hygiene

When using do not eat, drink or smoke.

Further information on handling

General protection and hygiene measures: See section 8.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep container tightly closed in a cool, well-ventilated place. Only use containers specifically approved for the substance/product.

Make sure spills can be contained (e.g. sump pallets or kerbed areas).

Hints on joint storage

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Radioactive substances. Infectious substances. Food and animal feedingstuff.

Further information on storage conditions

Keep the packing dry and well sealed to prevent contamination and absorption of humidity.

Recommended storage temperature: 20 °C

Protect against: frost. UV-radiation/sunlight. heat. Humidity

7.3. Specific end use(s)

See section 1.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Occupational exposure limits**

CAS No	Substance	ppm	mg/m ³	fib/cm ³	Category	Origin
128-37-0	2,6-Ditertiary-butyl-para-cresol	-	2		TWA (8 h)	
150-76-5	4-Methoxyphenol	-	5		TWA (8 h)	
110-82-7	Cyclohexane	200	700		TWA (8 h)	
13463-67-7	Titanium dioxide, respirable dust	-	4		TWA (8 h)	
13463-67-7	Titanium dioxide, total inhalable dust	-	10		TWA (8 h)	
108-88-3	Toluene	50	192		TWA (8 h)	
		100	384		STEL (15 min)	

Biological limit values

CAS No	Substance	Parameter	Value	Test material	Sampling time
108-88-3	Toluene	Toluene	0.03 mg/L	Urine	End of shift

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
28961-43-5	propylidynetrimethanol, ethoxylated, esters with acrylic acid			
Worker DNEL, long-term		inhalation	systemic	37 mg/m ³
Worker DNEL, long-term		dermal	systemic	10,5 mg/kg bw/day

Safety Data Sheet

according to Regulation (EC) No 1907/2006

NuSo FG -01-9999 und FG GN 01-9999 2.0

Revision date: 29.11.2024

Page 6 of 17

13463-67-7	titanium dioxide (> 10 µm)		
Worker DNEL, long-term	inhalation	local	1,25 mg/m³
84434-11-7	Ethylphenyl(2,4,6-trimethylbenzoyl)phosphinate		
Worker DNEL, long-term	inhalation	systemic	4,93 mg/m³
Worker DNEL, long-term	dermal	systemic	1,4 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	0,87 mg/m³
Consumer DNEL, long-term	dermal	systemic	0,5 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	0,5 mg/kg bw/day
55818-57-0	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid		
Worker DNEL, long-term	inhalation	systemic	1,17 mg/m³
Worker DNEL, long-term	dermal	systemic	33 mg/kg bw/day
109-16-0	2,2'-ethylenedioxydiethyldimethacrylate		
Worker DNEL, long-term	inhalation	systemic	48,5 mg/m³
Worker DNEL, long-term	dermal	systemic	13,9 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	14,5 mg/m³
Consumer DNEL, long-term	dermal	systemic	8,33 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	8,33 mg/kg bw/day

PNEC values

CAS No	Substance
Environmental compartment	Value
28961-43-5	propylidynetrimethanol, ethoxylated, esters with acrylic acid
Freshwater	0,002 mg/l
Marine water	0 mg/l
Freshwater sediment	0,038 mg/kg
Marine sediment	0,004 mg/kg
Micro-organisms in sewage treatment plants (STP)	10 mg/l
Soil	0,006 mg/kg
84434-11-7	Ethylphenyl(2,4,6-trimethylbenzoyl)phosphinate
Freshwater	0,00101 mg/l
Freshwater (intermittent releases)	0,0101 mg/l
Marine water	0,000101 mg/l
Freshwater sediment	0,24 mg/kg
Marine sediment	0,024 mg/kg
Soil	0,0475 mg/kg
55818-57-0	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid
Freshwater	0,025 mg/l
Marine water	0,003 mg/l
Freshwater sediment	8,96 mg/kg
Marine sediment	0,896 mg/kg
Micro-organisms in sewage treatment plants (STP)	10 mg/l

Safety Data Sheet

according to Regulation (EC) No 1907/2006

NuSo FG -01-9999 und FG GN 01-9999 2.0

Revision date: 29.11.2024

Page 7 of 17

Soil	1,78 mg/kg
109-16-0	2,2'-ethylenedioxydiethyldimethacrylate
Freshwater	0,016 mg/l
Freshwater (intermittent releases)	0,016 mg/l
Marine water	0,002 mg/l
Freshwater sediment	0,185 mg/kg
Marine sediment	0,018 mg/kg
Micro-organisms in sewage treatment plants (STP)	1,7 mg/l
Soil	0,027 mg/kg

8.2. Exposure controls**Appropriate engineering controls**

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Provide adequate ventilation.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Wear safety glasses; chemical goggles (if splashing is possible). EN ISO 16321-1:2022

Hand protection

In case of prolonged or frequently repeated skin contact:

Wear suitable gloves.

Suitable material:

FKM (fluororubber). - Thickness of glove material: 0,4 mm

Breakthrough time \geq 8 h

Butyl rubber. - Thickness of glove material: 0,5 mm

Breakthrough time \geq 8 h

CR (polychloroprenes, Chloroprene rubber). - Thickness of glove material: 0,5 mm

Breakthrough time \geq 8 h

NBR (Nitrile rubber). - Thickness of glove material: 0,35 mm

Breakthrough time \geq 8 h

PVC (Polyvinyl chloride). - Thickness of glove material: 0,5 mm

Breakthrough time \geq 8 h

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

The selected protective gloves have to satisfy the specifications of EU Directive EC/2016/425 and the standard EN 374 derived from it.

Before using check leak tightness / impermeability. In the case of wanting to use the gloves again, clean them before taking off and air them well.

Skin protection

Suitable protective clothing: Lab apron.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

-Exceeding exposure limit values

-Insufficient ventilation and aerosol or mist formation

Suitable respiratory protective equipment: particulates filter device (DIN EN 143). type: P1-3

Half-face mask or quarter facepiece: maximum use concentration for substances with exposure limits: P1 filter:

Safety Data Sheet

according to Regulation (EC) No 1907/2006

NuSo FG -01-9999 und FG GN 01-9999 2.0

Revision date: 29.11.2024

Page 8 of 17

up to a max. of 4 times the exposure limit. P2 filter: up to a max. of 10 times the exposure limit. P3 filter: up to a max. of 30 times the expo.

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Environmental exposure controls

Do not allow uncontrolled discharge of product into the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid	
Colour:	coloured	
Odour:	characteristic	
Odour threshold:	not determined	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and boiling range:		not determined
Flammability:		not determined
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Flash point:		not determined
Auto-ignition temperature:		not determined
Decomposition temperature:		not relevant
pH-Value:		not determined
Viscosity / kinematic:		not determined
Water solubility:		not determined
Solubility in other solvents		
not determined		
Dissolution rate:		not relevant
Partition coefficient n-octanol/water:		not relevant
Dispersion stability:		not relevant
Vapour pressure:		not determined
Density:		ca. 1,1 g/cm ³
Bulk density:		not relevant
Relative vapour density:		not determined
Particle characteristics:		not relevant

9.2. Other information

Information with regard to physical hazard classes

Explosive properties	
none	
Sustaining combustion:	No data available
Self-ignition temperature	
Solid:	not determined
Gas:	not determined
Oxidizing properties	
none	

Other safety characteristics

Evaporation rate:	not determined
Solvent separation test:	not determined
Solvent content:	not determined
Solid content:	not determined
Sublimation point:	not relevant

Safety Data Sheet

according to Regulation (EC) No 1907/2006

NuSo FG -01-9999 und FG GN 01-9999 2.0

Revision date: 29.11.2024

Page 9 of 17

Softening point:	not relevant
Pour point:	not relevant
Viscosity / dynamic:	not determined
Flow time:	not determined

Further Information

No information available.

SECTION 10: Stability and reactivity**10.1. Reactivity**

Stable under normal storage and handling conditions.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

Refer to section 10.5.

10.4. Conditions to avoid

Protect against: UV-radiation/sunlight. heat.

10.5. Incompatible materials

Materials to avoid: Oxidizing agents, strong. Reducing agents, strong.

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Toxicokinetics, metabolism and distribution**

No information available.

Acute toxicity

Based on available data, the classification criteria are not met.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
28961-43-5	propylidynetrimethanol, ethoxylated, esters with acrylic acid				
	oral	LD50 (>2000) mg/kg	Rat	REACH Dossier	
	dermal	LD50 >5000 mg/kg	Rabbit	REACH Dossier	
55818-57-0	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid				
	oral	LD50 >2000 mg/kg	Rat	REACH Dossier	
	dermal	LD50 >2000 mg/kg	Rat	REACH Dossier	
109-16-0	2,2'-ethylenedioxydiethyldimethacrylate				
	oral	LD50 10837 mg/kg	Rat	REACH Dossier	

Safety Data Sheet

according to Regulation (EC) No 1907/2006

NuSo FG -01-9999 und FG GN 01-9999 2.0

Revision date: 29.11.2024

Page 10 of 17

	dermal	LD50 mg/kg	> 2000	Mouse	REACH Dossier	
108-88-3	toluene					
	dermal	LD50 mg/kg	12200	Rabbit	GESTIS	
	inhalation (4 h) vapour	LC50	49 mg/l	Rat	GESTIS	
110-82-7	cyclohexane					
	oral	LD50 mg/kg	>5000	Rat	REACH Dossier	
	dermal	LD50 mg/kg	>2000	Rabbit	REACH Dossier	
	inhalation (4 h) vapour	LC50 mg/l	>19,07	Rat	REACH Dossier	

Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Causes serious eye irritation.

Sensitising effects

May cause an allergic skin reaction. (propylidynetrimethanol, ethoxylated, esters with acrylic acid; Aliphatic difunctional urethane Acrylate; Urethane methacrylate; Phenol, ethoxylated, esters with acrylic acid (4-EO); Ethylphenyl(2,4,6-trimethylbenzoyl)phosphinate; 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid; 2,2'-ethylenedioxydiethyldimethacrylate; 2-hydroxypropyl methacrylate; mequinol; 4-methoxyphenol; hydroquinone monomethyl ether; 4-methoxyphenol (p-Hydroxyanisole; hydroquinone monomethyl ether; mequinol))

Carcinogenic/mutagenic/toxic effects for reproduction

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.

2,2'-ethylenedioxydiethyldimethacrylate (CAS-No.: 109-16-0):

In-vitro mutagenicity: Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay), OECD Guideline 487

""In vitro Mammalian Cell Micronucleus Test""; Result: negative. Method: OECD Guideline 476 (In Vitro

Mammalian Cell Gene Mutation Test). Result: heterogeneous; Literature information: REACH Dossier;

Developmental toxicity/teratogenicity/Reproductive toxicity: Method: OECD Guideline 422 (Combined Repeated

Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test); Species: Rat; Exposure

duration: 35-42 d. Result: NOAEL = 1000 mg/kg(bw)day; Literature information: REACH Dossier

toluene (CAS-No.: 108-88-3):

In-vitro mutagenicity: Method: OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test); Result:

negative. Literature information: REACH Dossier; Carcinogenicity: Method: [inhalative, OECD Guideline 453

(Combined Chronic Toxicity / Carcinogenicity Studies)]; Species: Rat ; Exposure duration: 2 years ; Result:

NOAEC = 4522 mg/m3; Literature information: REACH Dossier; Reproductive toxicity: Method: OECD

Guideline 416 (Two-Generation Reproduction Toxicity Study); Species: Rat ; Result: NOAEC = 1875 mg/m3;

Literature information: REACH Dossier ; Developmental toxicity/teratogenicity: Method: [inhalative, EPA OTS

798.4350 (Inhalation Developmental Toxicity Screen)]; Species: Rabbit; Exposure duration: 20d ; Result:

NOEC = 2812 mg/kg; Literature information: REACH Dossier

cyclohexane (CAS-No.: 110:82-7):

In-vitro mutagenicity: Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay) Result: negative.

Literature information: REACH Dossier

Reproductive toxicity: Method: OECD Guideline 416 (Two-Generation Reproduction Toxicity Study) Species:

Rat; Exposure duration: 11w. Result: NOAEC = 500 ppm; Literature information: REACH Dossier

Developmental toxicity/teratogenicity: Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study)

Species: Rat; Exposure duration: 10 d. Result: NOAEC = 500 ppm; Literature information: REACH Dossier

Safety Data Sheet

according to Regulation (EC) No 1907/2006

NuSo FG -01-9999 und FG GN 01-9999 2.0

Revision date: 29.11.2024

Page 11 of 17

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.

toluene (CAS-No.: 108-88-3):

Subchronic oral toxicity: Method: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents); Species: Mouse. ; Exposure duration: 90d; Result: NOEL = 625 mg/kg ;

Literature information: REACH Dossier; Subchronic inhalation toxicity: Method: -; Species: Rat. Exposure duration: 1 year ; Result: NOAEC = 1131 mg/m3; Literature information: REACH Dossier

cyclohexane (CAS-No.: 110-82-7):

Subchronic inhalation toxicity: Method EPA OPPTS 870.3465 (90-Day Inhalation Toxicity) Species: Rat ; Exposure duration: 90 d Result: NOAEC = 500 ppm. Literature information: REACH Dossier

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards**Endocrine disrupting properties**

This product does not contain a substance (> 0,1%) that has endocrine disrupting properties with respect to humans as no components meets the criteria.

Other information

No data available.

SECTION 12: Ecological information**12.1. Toxicity**

Toxic to aquatic life with long lasting effects.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
28961-43-5	propylidynetrimehtanol, ethoxylated, esters with acrylic acid					
	Acute fish toxicity	LC50 (1,95) mg/l	96 h	Brachydanio rerio (zebra-fish)	REACH Dossier	
	Acute algae toxicity	ErC50 (2,2) mg/l	72 h	Desmodesmus subspicatus	REACH Dossier	
	Acute crustacea toxicity	EC50 (70,7) mg/l	48 h	Daphnia magna	REACH Dossier	
55818-57-0	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid					
	Acute fish toxicity	LL50 > 100 mg/l	96 h	Cyprinus carpio	REACH Dossier	ISO 7346-1
	Acute algae toxicity	ErC50 105 mg/l	72 h	Raphidocelis subcapitata	REACH Dossier	OECD Guideline 201
	Acute crustacea toxicity	EL50 > 100 mg/l	48 h	Daphnia magna	REACH Dossier	OECD Guideline 202
	Fish toxicity	NOEC 0,25 mg/l	33 d	Pimephales promelas	REACH Dossier	OECD Guideline 210
	Crustacea toxicity	NOEC >= 0,51 mg/l	21 d	Daphnia magna	REACH Dossier	OECD Guideline 211
	Acute bacteria toxicity	EC50 > 1000 mg/l ()	3 h	Activated sludge	REACH Dossier	OECD Guideline 209
109-16-0	2,2'-ethylenedioxydiethyldimethacrylate					
	Acute fish toxicity	LC50 16,4 mg/l	96 h	Danio rerio	REACH Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 > 100 mg/l	72 h	Raphidocelis subcapitata	REACH Dossier	EU Method C.3

Safety Data Sheet

according to Regulation (EC) No 1907/2006

NuSo FG -01-9999 und FG GN 01-9999 2.0

Revision date: 29.11.2024

Page 12 of 17

	Crustacea toxicity	NOEC	32 mg/l	21 d	Daphnia magna	REACH Dossier	EU Method C.20
108-88-3	toluene						
	Acute fish toxicity	LC50	13 mg/l	96 h	Carassius auratus	IUCLID	
	Acute algae toxicity	ErC50 mg/l	12,5	72 h	Selenastrum capricornutum	Galassi et al. 1988	
110-82-7	cyclohexane						
	Acute fish toxicity	LC50 mg/l	4,35	96 h	Pimephales promelas	REACH Dossier	
	Acute algae toxicity	ErC50 mg/l	>4,425	72 h	Raphidocelis subcapitata	REACH Dossier	
	Acute crustacea toxicity	EC50	0,9 mg/l	48 h	Daphnia magna	REACH Dossier	

12.2. Persistence and degradability

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
28961-43-5	propylidynetrimethanol, ethoxylated, esters with acrylic acid			
	OECD 301B / ISO 9439 / EEC 92/69 annex V, C.4-C	58-61%	28	REACH Dossier
	Easily biodegradable (concerning to the criteria of the OECD)			
84434-11-7	Ethylphenyl(2,4,6-trimethylbenzoyl)phosphinate			
	OECD Guideline 301 F	<10%	28	ECHA Dossier
	Not easily bio-degradable (according to OECD-criteria).			
55818-57-0	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid			
	OECD Guideline 301 F	42	28	REACH Dossier
	Not readily biodegradable (according to OECD criteria)			
109-16-0	2,2'-ethylenedioxydiethyldimethacrylate			
	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C	85%	28	REACH Dossier
	Readily biodegradable (according to OECD criteria).			
110-82-7	cyclohexane			
	OECD 301F / ISO 9408 / EEC 92/69 annex V, C.4-D	77%	28	REACH Dossier
	Easily biodegradable (concerning to the criteria of the OECD)			

12.3. Bioaccumulative potential**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
28961-43-5	propylidynetrimethanol, ethoxylated, esters with acrylic acid	2,89
56641-05-5	Phenol, ethoxylated, esters with acrylic acid (4-EO)	2,672
84434-11-7	Ethylphenyl(2,4,6-trimethylbenzoyl)phosphinate	2,91
55818-57-0	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	ca. 1,6 - 3,8
109-16-0	2,2'-ethylenedioxydiethyldimethacrylate	2,3
108-88-3	toluene	2,73

BCF

CAS No	Chemical name	BCF	Species	Source
109-16-0	2,2'-ethylenedioxydiethyldimethacrylate	16		REACH Dossier

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

Safety Data Sheet

according to Regulation (EC) No 1907/2006

NuSo FG -01-9999 und FG GN 01-9999 2.0

Revision date: 29.11.2024

Page 13 of 17

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
The aforementioned statement applies to substances contained in the product with a minimum content of 0.1%.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1%.

12.7. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation. Consult the local waste disposal expert about waste disposal. Non-contaminated packages may be recycled. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

List of Wastes Code - residues/unused products

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

List of Wastes Code - used product

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:

UN 3082

14.2. UN proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Urethane methacrylate)

14.3. Transport hazard class(es):

9

14.4. Packing group:

III

Hazard label:

9



Classification code:

M6

Special Provisions:

274 335 375 601

Limited quantity:

5 L

Excepted quantity:

E1

Transport category:

3

Safety Data Sheet

according to Regulation (EC) No 1907/2006

NuSo FG -01-9999 und FG GN 01-9999 2.0

Revision date: 29.11.2024

Page 14 of 17

Hazard No: 90
Tunnel restriction code: -

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 3082
14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Urethane methacrylate)
14.3. Transport hazard class(es): 9
14.4. Packing group: III
Hazard label: 9



Classification code: M6
Special Provisions: 274 335 375 601
Limited quantity: 5 L
Excepted quantity: E1

Marine transport (IMDG)

14.1. UN number or ID number: UN 3082
14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Urethane methacrylate)
14.3. Transport hazard class(es): 9
14.4. Packing group: III
Hazard label: 9



Marine pollutant: YES
Special Provisions: 274, 335, 969
Limited quantity: 5 L
Excepted quantity: E1
EmS: F-A, S-F

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 3082
14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Urethane methacrylate)
14.3. Transport hazard class(es): 9
14.4. Packing group: III
Hazard label: 9



Special Provisions: A97 A158 A197 A215
Limited quantity Passenger: 30 kg G
Passenger LQ: Y964
Excepted quantity: E1
IATA-packing instructions - Passenger: 964
IATA-max. quantity - Passenger: 450 L
IATA-packing instructions - Cargo: 964
IATA-max. quantity - Cargo: 450 L

14.5. Environmental hazards

Safety Data Sheet

according to Regulation (EC) No 1907/2006

NuSo FG -01-9999 und FG GN 01-9999 2.0

Revision date: 29.11.2024

Page 15 of 17

ENVIRONMENTALLY HAZARDOUS: Yes



Danger releasing substance: Urethane methacrylate

14.6. Special precautions for user

refer to section 6 - 8

14.7. Maritime transport in bulk according to IMO instruments

not relevant

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 75

Directive 2010/75/EU on industrial emissions: not determined

Directive 2004/42/EC on VOC in paints and varnishes: not determined

Information according to Directive 2012/18/EU (SEVESO III): E2 Hazardous to the Aquatic Environment

Additional information

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No 2020/878)

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

REACH 1907/2006 Appendix XVII, No (mixture): 3

National regulatory information

Water hazard class (D): 3 - highly hazardous to water

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

propylidynetrimethanol, ethoxylated, esters with acrylic acid

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid

2,2'-ethylenedioxydiethyldimethacrylate

SECTION 16: Other information**Changes**

Rev. 1,0; Initial release: 29.11.2024

Safety Data Sheet

according to Regulation (EC) No 1907/2006

NuSo FG -01-9999 und FG GN 01-9999 2.0

Revision date: 29.11.2024

Page 16 of 17

Abbreviations and acronyms

Flam. Liq: Flammable liquid
Asp. Tox: Aspiration hazard
Skin Irrit: Skin irritation
Eye Irrit: Eye irritation
Skin Sens: Skin sensitisation
Repr: Reproductive toxicity
STOT SE: Specific target organ toxicity - single exposure
STOT RE: Specific target organ toxicity - repeated exposure
Aquatic Acute: Acute aquatic hazard
Aquatic Chronic: Chronic aquatic hazard
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
CAS: Chemical Abstracts Service
CLP: Classification, Labelling and Packaging of substances and mixtures
DNEL: Derived No Effect Level
d: day(s)
EINECS: European INventory of Existing Commercial chemical Substances
ELINCS: European List of Notified Chemical Substances
ECHA: European Chemicals Agency
EWC: European Waste Catalogue
IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
h: hour
LOAEL: Lowest observed adverse effect level
LOAEC: Lowest observed adverse effect concentration
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
NOAEL: No observed adverse effect level
NOAEC: No observed adverse effect concentration
NLP: No-Longer Polymers
N/A: not applicable
OECD: Organisation for Economic Co-operation and Development
PNEC: predicted no effect concentration
PBT: Persistent bioaccumulative toxic
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
REACH: Registration, Evaluation, Authorisation of Chemicals
SVHC: substance of very high concern
TRGS: Technische Regeln für Gefahrstoffe
UN: United Nations
VOC: Volatile Organic Compounds
WGK: Water Hazard Class (Germany)

Safety Data Sheet

according to Regulation (EC) No 1907/2006

NuSo FG -01-9999 und FG GN 01-9999 2.0

Revision date: 29.11.2024

Page 17 of 17

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Skin Sens. 1; H317	Calculation method
Aquatic Chronic 2; H411	Calculation method

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)