

#### SAFETY DATA SHEET

# 3sixty Yellow Ink

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

#### 1.1. Product identifier

Trade name

3sixty Yellow Ink

Product no.

D3054

## 1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture

Ink

Uses advised against

No special

#### 1.3. Details of the supplier of the safety data sheet

## Company and address

## **ACG Nyström**

Älvsborgsleden 7

504 31 Borås

Sverige

Tel. +46 033-17 88 00

## Contact person

Johny Sjödin

E-mail

Johny.sjodin@acgnystrom.se

SDS date

2021-08-31

**SDS Version** 

1.0

## 1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service).

See section 4 "First aid measures".

## **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

Skin Irrit. 2; H315, Causes skin irritation.

Skin Sens. 1; H317, May cause an allergic skin reaction.

Eye Irrit. 2; H319, Causes serious eye irritation.

STOT SE 3; H335, May cause respiratory irritation.

Repr. 1B; H360, May damage fertility or the unborn child.

STOT RE 2; H373, May cause damage to organs through prolonged or repeated exposure.

Aquatic Acute 1; H400, Very toxic to aquatic life.

Aquatic Chronic 1; H410, Very toxic to aquatic life with long lasting effects.

## 2.2. Label elements

Hazard pictogram(s)









## Signal word

#### Danger

## Hazard statement(s)

Causes skin irritation. (H315)

May cause an allergic skin reaction. (H317)

Causes serious eye irritation. (H319)

May cause respiratory irritation. (H335)

May damage fertility or the unborn child. (H360)

May cause damage to organs through prolonged or repeated exposure. (H373)

Very toxic to aquatic life with long lasting effects. (H410)

## Safety statement(s)

#### General

#### Prevention

Obtain special instructions before use. (P201)

Wear eye protection / protective gloves / protective clothing. (P280)

#### Response

IF exposed or concerned: Get medical advice/attention. (P308+P313)

Get medical advice/attention if you feel unwell. (P314)

#### Storage

Store in a well-ventilated place. Keep container tightly closed. (P403+P233)

## Disposal

Dispose of contents/container to an approved waste disposal plant. (P501)

#### Hazardous substances

Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate (Isobornyl Acrylate)

hexamethylene diacrylate; hexane-1,6-diol diacrylate

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

Lactam

#### 2.3. Other hazards

#### Additional labelling

Not applicable

## Additional warnings

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

## SECTION 3: Composition/information on ingredients

## 3.2 Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
Acrylic Monomer Blend	CAS No.: EC No.: REACH:	30-50%	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Repr. 2, H361 Aquatic Chronic 2, H411	
	Index No.:			
Exo-1,7,7- trimethylbicyclo[2.2.1]hept- 2-yl acrylate (Isobornyl	CAS No.: 5888-33-5 EC No.: 227-561-6	20-40%	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319	



Acrylate)	REACH: 01-2119957862-25		Aquatic Acute 1, H400 (M=1)
	Index No.:		Aquatic Chronic 1, H410 (M=1) STOT SE 3, H335
	muex no		3101 3L 3, 11333
Lactam	CAS No.:	1-10%	Acute Tox. 4, H302
			Acute Tox. 4, H312
	EC No.:		Skin Sens. 1, H317 Acute Tox. 4, H332
	REACH:		Eye Irrit. 2, H319
	Index No.:		STOT RE 1, H372
	mack ivo		
hexamethylene	CAS No.: 13048-33-4	1-10%	Skin Irrit. 2, H315
diacrylate;hexane-1,6-diol	FC No. 22F 024 0		Skin Sens. 1, H317
diacrylate	EC No.: 235-921-9		Eye Irrit. 2, H319 Aquatic Acute 1, H400 (M=1)
	REACH: 01-2119484737-22		Aquatic Chronic 2, H411
	Index No.: 607-109-00-8		
diphenyl(2,4,6-	CAS No.: 75980-60-8	1-10%	Skin Sens. 1B, H317
trimethylbenzoyl)phosphine oxide	EC No.: 278-355-8		Repr. 1B, H360 Aquatic Chronic 2, H411
omac			Aquate emonie 2,1111
	REACH: 01-2119972295-29		
	Index No.: 015-203-00-X		
BL		4.400/	al. a 4 Hada
Photoinitiator blend	CAS No.:	1-10%	Skin Sens. 1, H317 Aquatic Chronic 4, H413
	EC No.:		Aquatic Cili Offic 4, 11413
	DEACH		
	REACH:		
	Index No.:		

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See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available. Other information

No special

## SECTION 4: First aid measures

## 4.1. Description of first aid measures

## General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

### Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

#### Skin contact

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

## Eye contact

Upon irritation of the eye: Remove contact lenses. Flush eyes immediately with plenty of water or isotonic water (20-30°C) for at least 5 minutes and continue until irritation stops. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.

## Ingestion



Provide plenty of water for the person to drink and stay with him/her. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the victim lean forward with head down to avoid inhalation of- or choking on vomited material.

#### Burns

Not applicable

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

Sensitisation: This product contains substances, which may trigger allergic reaction upon dermal contact.

Manifestation of allergic reactions typically takes place within 12-72 hours after exposure.

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

IF exposed or concerned:

Get immediate medical advice/attention.

If skin irritation or rash occurs: Get medical advice/attention.

#### Information to medics

Bring this safety data sheet or the label from this product.

Eye Contact - Emergency Medical Treatment Procedures:

Some photoinitiators cure in the near UV and visible light range.

Keep overhead lighting OFF as a precaution. Flush eyes for an additional 15-30 minutes prior to examination under light. DO NOT use UV light with fluorescent stain to examine injured eye without copious irrigation of the eye. May cause sensitization of susceptible persons. Use of epinephrine may be indicated. Treat symptomatically.

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

## 5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Carbon oxides (CO / CO2).

## 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

## SECTION 6: Accidental release measures

## 6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.

Avoid inhalation of vapours from spilled material.

## 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

## 6.3. Methods and material for containment and cleaning up

Limit spillage and collect using granular absorbent or similar materials, and dispose of it in accordance with the regulations on dangerous waste.

Use sand, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations.

To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.



#### 6.4. Reference to other sections

See section 13 on "Disposal considerations" in regard of handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

## SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

It is recommended to install waste collection trays in order to prevent emissions to the waste water system and surrounding environment.

Avoid direct contact with the product.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

#### 7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

#### Recommended storage material

Keep only in original packaging.

## Storage temperature

Dry, cool and well ventilated and protected from light

#### Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

#### 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No substances are listed in the national list of substances with an occupational exposure limit.

## **DNEL**

Product/substance	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate (Isobornyl Acrylate)
DNEL	0,83 mg/kgbw/day
Route of exposure	Oral
Duration	Short term – Systemic effects - General population
Product/substance DNEL Route of exposure Duration	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate (Isobornyl Acrylate) 0,83 mg/kgbw/day Dermal Short term – Systemic effects - General population
Product/substance DNEL Route of exposure Duration	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate (Isobornyl Acrylate) 1,39 mg/kgbw/day Dermal Short term – Systemic effects - Workers
Product/substance	hexamethylene diacrylate;hexane-1,6-diol diacrylate
DNEL	2.08 mg/kg
Route of exposure	Oral
Duration	Short term – Systemic effects - General population
Product/substance	hexamethylene diacrylate;hexane-1,6-diol diacrylate
DNEL	7.24 mg/m³
Route of exposure	Inhalation

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	Duration	Short term – Systemic effects - General population
	Product/substance DNEL	hexamethylene diacrylate;hexane-1,6-diol diacrylate 1.66 mg/kg
	Route of exposure	Dermal
	Duration	Short term – Systemic effects - General population
	Product/substance DNEL	hexamethylene diacrylate;hexane-1,6-diol diacrylate 24.48 mg/m³
	Route of exposure	Inhalation
	Duration	Short term – Systemic effects - Workers
	Product/substance DNEL	hexamethylene diacrylate;hexane-1,6-diol diacrylate 2.77 mg/kg
	Route of exposure	Dermal
	Duration	Short term – Systemic effects - Workers
	Product/substance DNEL	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide 3,5 mg/m <sup>3</sup>
	Route of exposure	Inhalation
	Duration	Short term – Systemic effects - Workers
	Product/substance DNEL	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide 1 mg/kgbw/day
	Route of exposure	Dermal
	Duration	Short term – Systemic effects - Workers
		,
PNEC		
	Product/substance PNEC	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate (Isobornyl Acrylate) 0,00092 mg/L
	Route of exposure	Freshwater
	Duration of Exposure	
	Product/substance PNEC	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate (Isobornyl Acrylate) 0,0285 mg/kg
	Route of exposure	Soil
	Duration of Exposure	
	Product/substance	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate (Isobornyl Acrylate)
	PNEC	0,145 mg/kg
	Route of exposure Duration of Exposure	Freshwater sediment
	Product/substance	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate (Isobornyl Acrylate)
	PNEC	0,0145 mg/kg
	Route of exposure	Marine water sediment
	Duration of Exposure	

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Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate (Isobornyl Acrylate)

Product/substance

Route of exposure

2 mg/L

Activated Sludge Plant

**PNEC** 



Duration of Exposure	
Product/substance PNEC Route of exposure Duration of Exposure	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate (Isobornyl Acrylate) 0,000092 mg/L Marine water
Product/substance PNEC Route of exposure Duration of Exposure	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate (Isobornyl Acrylate) 0,00704 mg/L Intermittent release
Product/substance PNEC Route of exposure Duration of Exposure	hexamethylene diacrylate;hexane-1,6-diol diacrylate 0.0015 mg/L Freshwater
Product/substance PNEC Route of exposure Duration of Exposure	hexamethylene diacrylate;hexane-1,6-diol diacrylate 0.00243 mg/kg Marine water sediment
Product/substance PNEC Route of exposure Duration of Exposure	hexamethylene diacrylate;hexane-1,6-diol diacrylate 0.00015 mg/L Marine water
Product/substance PNEC Route of exposure Duration of Exposure	hexamethylene diacrylate;hexane-1,6-diol diacrylate 0.00397 mg/kg Soil
Product/substance PNEC Route of exposure Duration of Exposure	hexamethylene diacrylate;hexane-1,6-diol diacrylate 2.7 mg/L Sewage treatment plant
Product/substance PNEC Route of exposure Duration of Exposure	hexamethylene diacrylate;hexane-1,6-diol diacrylate 0.0243 mg/kg Freshwater sediment
Product/substance PNEC Route of exposure Duration of Exposure	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide 0,0557 mg/kg Soil
Product/substance PNEC Route of exposure Duration of Exposure	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide 0,00353 mg/L Freshwater

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Product/substance diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

PNEC 0,029 mg/kg

Route of exposure Marine water sediment

**Duration of Exposure** 

Product/substance diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

PNEC 0,00353 mg/L Route of exposure Marine water

**Duration of Exposure** 

Product/substance diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

PNEC 0,0353 mg/L
Route of exposure Intermittent release

**Duration of Exposure** 

Product/substance diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

PNEC 0,29 mg/kg

Route of exposure Freshwater sediment

**Duration of Exposure** 

Product/substance diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

PNEC 0,0557 mg/kg

Route of exposure Soil

**Duration of Exposure** 

Product/substance diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

PNEC 0,00353 mg/L Route of exposure Freshwater

**Duration of Exposure** 

## 8.2. Exposure controls

Control is unnecessary if the product is used as intended.

## General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

#### Exposure scenarios

There are no exposure scenarios implemented for this product.

## **Exposure limits**

Occupational exposure limits have not been defined for the substances in this product.

## Appropriate technical measures

Do not recirculate outlet air that contain the substances.

### Hygiene measures

Take off contaminated clothing and wash it before reuse.

## Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible, collect spillage during work.

## Individual protection measures, such as personal protective equipment

#### Generally

Use only CE marked protective equipment.

**Respiratory Equipment** 



Туре	Class	Colour	Standards	
A	Class 1 (low capacity)	Brown	EN14387	
Respiratory protection is not needed in the event of adequate ventilation				

## Skin protection

Recommended	Type/Category	Standards	
Dedicated work clothing should be worn	-	-	A P

## Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Nitrile	0.4	> 480	EN374-2, EN374-3, EN388	

## Eye protection

Type	Standards	
Safety glasses with side shields.	EN166	

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Physical state

Liquid

Colour

Yellowish

Odour / Odour threshold

Sharp/pungent

рΗ

Testing not relevant or not possible due to nature of the product.

Density (g/cm³)

Testing not relevant or not possible due to nature of the product.

Kinematic viscosity

10-30 centistokes (25.00 °C)

Particle characteristics

Does not apply to liquids.

Phase changes

Melting point/Freezing point (°C)

Testing not relevant or not possible due to nature of the product.



## Softening point/range (waxes and pastes) (°C)

Does not apply to liquids.

### Boiling point (°C)

Testing not relevant or not possible due to nature of the product.

#### Vapour pressure

Testing not relevant or not possible due to nature of the product.

#### Relative vapour density

Testing not relevant or not possible due to nature of the product.

#### Decomposition temperature (°C)

Testing not relevant or not possible due to nature of the product.

#### Data on fire and explosion hazards

#### Flash point (°C)

>100 °C

# Ignition (°C)

Testing not relevant or not possible due to nature of the product.

## Auto flammability (°C)

Testing not relevant or not possible due to nature of the product.

#### Lower and upper explosion limit (% v/v)

Testing not relevant or not possible due to nature of the product.

#### Solubility

#### Solubility in water

Testing not relevant or not possible due to nature of the product.

#### n-octanol/water coefficient

Testing not relevant or not possible due to nature of the product.

#### Solubility in fat (q/L)

Testing not relevant or not possible due to nature of the product.

#### 9.2. Other information

## SECTION 10: Stability and reactivity

## 10.1. Reactivity

No data available

#### 10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

## 10.3. Possibility of hazardous reactions

No special

#### 10.4. Conditions to avoid

No special

#### 10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

## 10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

## SECTION 11: Toxicological information

# 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity

Product/substance

3sixty Yellow Ink

Test method

**Species** 

Route of exposure

Oral

Test

Result 2637 mg/kgbw



Other information	Calculated
Product/substance Test method	3sixty Yellow Ink
Species Route of exposure Test	Dermal
Result	2489 mg/kgbw
Other information	Calculated
Product/substance	Acrylic Monomer Blend
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	>2000 mg/kgbw
Other information	
Product/substance Test method	Acrylic Monomer Blend
Species	Rat
Route of exposure	Dermal
Test	LD50
Result	>2000 mg/kgbw
Other information	
Product/substance Test method	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate (Isobornyl Acrylate)
Species	Rat
Route of exposure	Oral
Test	LD50
Result	4350 mg/kgbw
Other information	
Product/substance	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate (Isobornyl Acrylate)
Test method	
Species	Rabbit
Route of exposure	Dermal LD52
Test	LD50 >3000 mg/kgbw
Result Other information	>5000 Hig/kgbw
Other information	
Product/substance Test method	Lactam
Species	Rat
Route of exposure	Oral
Test	LD50
Result	1114 mg/kgbw
Other information	
Product/substance	Lactam
Test method	

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Species Rat
Route of exposure Dermal
Test LD50
Result 1700 mg/kg

Other information

Product/substance

hexamethylene diacrylate; hexane-1,6-diol diacrylate

Test method

Species Rat
Route of exposure Oral
Test LD50

Result >5000 mg/kgbw

Other information

Product/substance

hexamethylene diacrylate;hexane-1,6-diol diacrylate

Test method

Species Rabbit
Route of exposure Dermal
Test LD50

Result 3650 mg/kgbw

Other information

Product/substance diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

Test method

Species Rat
Route of exposure Oral
Test LD50

Result >2000 mg/kg

Other information

Product/substance diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

Test method

Species Rat
Route of exposure Dermal
Test LD50
Result >2000 mg/kg

Other information

Product/substance Photoinitiator blend

Test method

Species Rat
Route of exposure Oral
Test LD50

Result >2000 mg/kgbw

Other information

Product/substance Photoinitiator blend

Test method

Species Rat
Route of exposure Dermal
Test LD50

Result >2000 mg/kgbw



#### Other information

#### Skin corrosion/irritation

Causes skin irritation.

#### Serious eye damage/irritation

Causes serious eye irritation.

#### Respiratory sensitisation

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

#### Skin sensitisation

May cause an allergic skin reaction.

#### 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

May damage fertility or the unborn child.

## STOT-single exposure

May cause respiratory irritation.

#### STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

#### Aspiration hazard

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

#### 11.2 Information on other hazards

#### Long term effects

Reproductive toxicity: This product contains teratogenic substances, which may produce anomalies and/or developmental defects to the human offspring. Adverse effects include: death, growth retardation, congenital disorders, delayed mental development, and functional disorders. This product contains reprotoxic substances, which may harm the reproductive capacity. Adverse effects include: sterility, effects on the sexual function, lowered effective fertility and dysfunctional menstrual cycle.

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

## Endocrine disrupting properties

No special

## Other information

No special

## SECTION 12: Ecological information

## 12.1. Toxicity

Product/substance Acrylic Monomer Blend

Test method

Species Algae

Compartment

Duration 72 hours
Test EC50
Result 42.71 mg/L

Other information

Product/substance

Acrylic Monomer Blend

Test method

Species Fish

Compartment

Acrylic Monomer Blend



Duration 96 hours LC50 Test Result 5.03 mg/L

Other information

Product/substance

Test method

Crustacean **Species** 

Compartment

Duration 48 hours EC50 Test Result 25.13 mg/L

Other information

Product/substance

Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate (Isobornyl Acrylate)

Test method

**Species** Compartment

72 hours Duration EC50 Test Result 1.98 mg/L

Algae

Fish

Other information

Product/substance

Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate (Isobornyl Acrylate)

Test method **Species** 

Compartment

Duration 96 hours LC50 Test Result 0.704 mg/L

Other information

Product/substance

Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate (Isobornyl Acrylate)

Test method

Species

Crustacean

Compartment

Duration 48 hours Test EC50 0.092 mg/L Result

Other information

Product/substance

hexamethylene diacrylate; hexane-1,6-diol diacrylate

Test method

Algae **Species** 

Compartment

72 hours Duration EC50 Test Result 2,3 mg/L

Other information

Product/substance hexamethylene diacrylate; hexane-1,6-diol diacrylate

Test method

**Species** Fish

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Compartment

Duration 96 hours
Test LC50
Result 0,38 mg/L

Other information

Product/substance

hexamethylene diacrylate; hexane-1,6-diol diacrylate

Test method

Species Crustacean

Compartment

Duration 48 hours
Test EC50
Result 2,7 mg/L

Other information

Product/substance

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

Test method

Species Algae

Compartment

Duration 72 hours
Test EC50
Result >2.01 mg/L

Other information

Product/substance

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

Test method

Species Fish

Compartment

Duration 48 hours
Test LC50
Result 1.4 mg/L

Other information

Product/substance diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

Test method

Species Crustacean

Compartment

Duration 48 hours
Test EC50
Result 3.53 mg/L

Other information

## 12.2. Persistence and degradability

No data available

## 12.3. Bioaccumulative potential

No data available

## 12.4. Mobility in soil

No data available

## 12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

## 12.6. Endocrine disrupting properties

No special

## 12.7. Other adverse effects



This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.

This product contains substances, which may cause adverse long-term effects to the aquatic environment.

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste.

HP 4 - Irritant (skin irritation and eye damage)

HP 5 - Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

HP 10 - Toxic for reproduction

HP 13 - Sensitising

HP 14 - Ecotoxic

Avoid discharge to lakes, streams, sewers, etc.

Dispose of contents/container to an approved waste disposal plant.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

#### EWC code

08 03 12\* Waste ink containing dangerous substances

#### Specific labelling

Not applicable

## Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

## **SECTION 14: Transport information**

## 14.1 - 14.4

This product is within scope of the regulations of transport of dangerous goods.

These substances when carried in single or combination packaging's containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of ADR/IMDG/IATA provided the packaging's meet the general provisions of 4.1.1.1, 4.1.1.2, 4.1.1.4 - 4.1.1.8 (ADR, IMDG) / 5.0.2.4.1, 5.0.2.6.1.1, 5.0.2.8 (IATA)

## ADR/RID

UN- or ID number	UN proper shipping name	Labels	Packing group	Tunnel restriction code
3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Acrylate)	9	III	3 (-)

#### **IMDG**

UN- or ID number	UN proper shipping name	Labels	Packing group	EmS
3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Acrylate)	9	III	F-A, S-F

## MARINE POLLUTANT

Yes

#### IATA

UN- or ID number	UN proper shipping name	Labels	Packing group
3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Acrylate)	9	III

#### 14.5. Environmental hazards



This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.

This product contains substances, which may cause adverse long-term effects to the aquatic environment.

### 14.6. Special precautions for user

Not applicable

## 14.7. Maritime transport in bulk according to IMO instruments

No data available

## **SECTION 15: Regulatory information**

# 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture Restrictions for application

Restricted to professional users.

People under the age of 18 shall not be exposed to this product.

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

Must not be used by persons suffering acrylic dermatitis.

#### Demands for specific education

No specific requirements

## SEVESO - Categories / dangerous substances

E1 - ENVIRONMENTAL HAZARDS, Qualifying quantity (lower-tier): 100 tonnes / (upper-tier): 200 tonnes

## Additional information

Not applicable

#### Sources

The Management of Health and Safety at Work Regulations 1999

The Health and Safety at Work etc. Act 1974 Regulations 2013.

Control of Major Accident Hazards (COMAH) Regulations 2015.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

#### 15.2. Chemical safety assessment

No

## SECTION 16: Other information

# Full text of H-phrases as mentioned in section 3

H302, Harmful if swallowed.

H312, Harmful in contact with skin.

H315, Causes skin irritation.

H317, May cause an allergic skin reaction.

H319, Causes serious eye irritation.

H332, Harmful if inhaled.

H335, May cause respiratory irritation.

H360, May damage fertility or the unborn child.

H361, Suspected of damaging fertility or the unborn child.

H372, Causes 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.

H413, May cause long lasting harmful effects to aquatic life.

#### Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road



ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CE = Conformité Européenne

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA = Chemical Safety Assessment

CSR = Chemical Safety Report

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EINECS = European Inventory of Existing Commercial chemical Substances

ES = Exposure Scenario

EUH statement = CLP-specific Hazard statement

EWC = European Waste Catalogue

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IARC = International Agency for Research on Cancer (IARC)

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

OECD = Organisation for Economic Co-operation and Development

PBT = Persistent, Bioaccumulative and Toxic

PNEC = Predicted No Effect Concentration

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SCL = A specific concentration limit.

SVHC = Substances of Very High Concern

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

TWA = Time weighted average

**UN = United Nations** 

UVCB = Complex hydrocarbon substance

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

### Additional information

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)

The classification of the substance/mixture in regard of environmental hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)

## The safety data sheet is validated by

ACG Nyström AB

## Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: GB-en