

# EU safety data sheet

**Trade name:** KRONES colfix HM 3007

**Current version :** 1.1.3, issued: 08.06.2021

**Replaced version:** 1.1.2, issued: 26.02.2021

**Region:** GB

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

### 1.1 Product identifier

**Trade name**

**KRONES colfix HM 3007**

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

**Relevant identified uses of the substance or mixture**

Adhesive for labelling

**Uses advised against**

No data available.

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

**Address**

KIC KRONES Internationale Cooperationsgesellschaft mbH

Böhmerwaldstraße 5

93073 Neutraubling

Telephone no. +49 9401 70-3020

Fax no. +49 9401 70-3696

e-mail kic@kic-krones.com

**Advice on Safety Data Sheet**

sdb\_info@umco.de

### 1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

In case of transport incidents and other emergencies:

+44 (0) 1235 239 670 (NCEC, National Chemical Emergency Centre)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Aquatic Chronic 3; H412

Repr. 1B; H360FD

Skin Sens. 1; H317

**Classification information**

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

### 2.2 Label elements

**Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)**

**Hazard pictograms**



GHS07



GHS08

**Signal word**

Danger

**Hazardous component(s) to be indicated on label:**

1,3-butadiene, 2-methyl, homopolymer, maleated 2 - [(2-methyl-1-oxo-2-propen-1-yl) oxy] ethyl ester

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2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one

## Hazard statement(s)

H317 May cause an allergic skin reaction.  
 H360FD May damage fertility. May damage the unborn child.  
 H412 Harmful to aquatic life with long lasting effects.

## Precautionary statement(s)

P201 Obtain special instructions before use.  
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P308+P313 IF exposed or concerned: Get medical advice/attention.

## Supplemental label elements

"Restricted to professional users"

## 2.3 Other hazards

No data available.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable. The product is not a substance.

### 3.2 Mixtures

#### Hazardous ingredients

No	Substance name		Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration	%
1	<b>1,3-butadiene, 2-methyl, homopolymer, maleated 2 - [(2-methyl-1-oxo-2-propen-1-yl) oxy] ethyl ester</b>			
	848245-48-7 695-244-3 - -	Skin Sens. 1; H317	>= 25.00 - < 50.00	wt%
2	<b>(octahydro-4,7-methano-1H-indenediyl)bis(methylene) diacrylate</b>			
	42594-17-2 255-901-3 - 01-2120051112-76	Aquatic Chronic 2; H411 Skin Sens. 1B; H317	>= 10.00 - < 25.00	wt%
3	<b>2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one</b>			
	71868-10-5 400-600-6 606-041-00-6 01-0000015054-80	Acute Tox. 4*; H302 Aquatic Chronic 2; H411 Repr. 1B; H360FD	< 2.50	wt%
4	<b>cyclohexane</b>			
	110-82-7 203-806-2 601-017-00-1 01-2119463273-41	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Asp. Tox. 1; H304 Flam. Liq. 2; H225 Skin Irrit. 2; H315 STOT SE 3; H336	< 0.50	wt%
5	<b>n-hexane</b>			
	110-54-3 203-777-6 601-037-00-0 01-2119480412-44	Aquatic Chronic 2; H411 Asp. Tox. 1; H304 Flam. Liq. 2; H225 Repr. 2; H361f Skin Irrit. 2; H315 STOT RE 2; H373 STOT SE 3; H336	< 0.50	wt%

Full Text for all H-phrases and EUH-phrases: pls. see section 16

(\* , \*\* , \*\*\* , \*\*\*\*) Detailed explanation pls. refer to CLP regulation No. 1272/2008, annex VI, 1.2

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Acute toxicity estimate (ATE) values			
No	oral	dermal	inhalative
3	1984 mg/kg bodyweight		
5	24 mg/kg bodyweight		

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. Poisonous symptoms can first be observed after several hours, therefore medical observation for at least 48 hours is necessary.

#### After inhalation

Remove affected persons from dangerous area by observing suitable respiratory protection measures. Ensure supply of fresh air. In case of persisting adverse effects consult a physician.

#### After skin contact

When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.

#### After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Get immediate ophthalmic treatment.

#### After ingestion

Rinse the mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor.

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

#### Symptoms

Skin irritation; reddening of the skin

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

No data available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

All quenching (arc-extinguishing) media available.

#### Unsuitable extinguishing media

High power water jet

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

In the event of fire, the following can be released: Toxic gases/vapours

### 5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing.

## SECTION 6: Accidental release measures

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

#### For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Remove persons to safety. High risk of slipping due to leakage/spillage of product. Avoid contact with skin, eyes and clothing.

#### For emergency responders

Personal protective equipment (PPE) - see section 8.

### 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. In case of entry into waterways, soil or drains, inform the responsible authorities.

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

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).

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## 6.4 Reference to other sections

Information regarding safe handling, see section 7. Information regarding personal protective measures, see section 8. Information regarding waste disposal, see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Advice on safe handling

Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances. Provide good ventilation at the work area (local exhaust ventilation, if necessary).

#### General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Do not inhale vapours. Avoid contact with eyes and skin. Wash hands before breaks and after work. Remove contaminated clothing and shoes and launder thoroughly before reusing.

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

#### Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Keep from freezing.

#### Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original.

#### Incompatible products

Substances to be avoided, see section 10.

### 7.3 Specific end use(s)

No data available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

No	Substance name	CAS no.	EC no.
1	<b>cyclohexane</b>	<b>110-82-7</b>	<b>203-806-2</b>
	<b>2006/15/EC</b>		
	Cyclohexane		
	WEL long-term (8-hr TWA reference period)	700	mg/m <sup>3</sup> 200 ppm
	<b>List of approved workplace exposure limits (WELs) / EH40</b>		
	Cyclohexane		
	WEL short-term (15 min reference period)	1050	mg/m <sup>3</sup> 300 ppm
	WEL long-term (8-hr TWA reference period)	350	mg/m <sup>3</sup> 100 ppm
2	<b>n-hexane</b>	<b>110-54-3</b>	<b>203-777-6</b>
	<b>2006/15/EC</b>		
	n-Hexane		
	WEL long-term (8-hr TWA reference period)	72	mg/m <sup>3</sup> 20 ppm
	<b>List of approved workplace exposure limits (WELs) / EH40</b>		
	n-Hexane		
	WEL long-term (8-hr TWA reference period)	72	mg/m <sup>3</sup> 20 ppm

#### DNEL, DMEL and PNEC values

##### DNEL values (worker)

No	Substance name	CAS / EC no		
	Route of exposure	Exposure time	Effect	Value
1	<b>2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one</b>	<b>71868-10-5</b>	<b>400-600-6</b>	
	dermal	Long term (chronic)	systemic	0.4 mg/kg/day

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2	inhalative	Long term (chronic)	systemic	2.82	mg/m <sup>3</sup>
	<b>cyclohexane</b>			<b>110-82-7</b>	<b>203-806-2</b>
3	inhalative	Short term (acut)	systemic	700	mg/m <sup>3</sup>
	<b>n-hexane</b>			<b>110-54-3</b>	<b>203-777-6</b>
	dermal	Long term (chronic)	systemic	11	mg/kg
	inhalative	Long term (chronic)	systemic	75	mg/m <sup>3</sup>

## DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	<b>2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one</b>			<b>71868-10-5</b>	
				<b>400-600-6</b>	
	oral	Long term (chronic)	systemic	0.2	mg/kg/day
	dermal	Long term (chronic)	systemic	0.2	mg/kg/day
	inhalative	Long term (chronic)	systemic	0.7	mg/m <sup>3</sup>
2	<b>cyclohexane</b>			<b>110-82-7</b>	
				<b>203-806-2</b>	
	dermal	Long term (chronic)	systemic	2016	mg/kg
	inhalative	Short term (acut)	local	700	mg/m <sup>3</sup>
	inhalative	Long term (chronic)	systemic	700	mg/m <sup>3</sup>
	inhalative	Long term (chronic)	local	700	mg/m <sup>3</sup>
3	<b>n-hexane</b>			<b>110-54-3</b>	
				<b>203-777-6</b>	
	oral	Long term (chronic)	systemic	4	mg/kg
	dermal	Long term (chronic)	systemic	5.3	mg/kg
	inhalative	Long term (chronic)	systemic	16	mg/m <sup>3</sup>

## PNEC values

No	Substance name		CAS / EC no	
	ecological compartment	Type	Value	
1	<b>(octahydro-4,7-methano-1H-indenediyl)bis(methylene) diacrylate</b>		<b>42594-17-2</b>	
			<b>255-901-3</b>	
	water	fresh water	1.6	µg/L
	water	Aqua intermittent	16	µg/L
	water	marine water	0.16	µg/L
	water	fresh water sediment	0.658	mg/kg dry weight
	water	marine water sediment	0.066	mg/kg dry weight
	soil	-	0.131	mg/kg dry weight
	sewage treatment plant	-	10	mg/L
2	<b>2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one</b>		<b>71868-10-5</b>	
			<b>400-600-6</b>	
	water	fresh water	0.017	mg/L
	water	marine water	0.002	mg/L
	water	fresh water sediment	1.139	mg/kg
	water	marine water sediment	0.114	mg/kg
	soil	-	0.087	mg/kg
	sewage treatment plant	-	1	mg/L
	secondary poisoning	-	16.7	mg/kg
3	<b>cyclohexane</b>		<b>110-82-7</b>	
			<b>203-806-2</b>	
	water	fresh water	0.207	mg/L
	water	marine water	0.207	mg/L
	water	fresh water sediment	3.267	mg/kg
	water	marine water sediment	3.267	mg/kg
	soil	-	2.99	mg/kg

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## 8.2 Exposure controls

### Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

### Personal protective equipment

#### Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Respirator ABEK-P2

#### Eye / face protection

Safety glasses with side protection shield (EN 166)

#### Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material	NBR		
Material thickness	>	0.4	mm
Breakthrough time	>	480	mm

#### Other

Chemical-resistant work clothes.

#### Environmental exposure controls

No data available.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>State of aggregation</b>	
liquid	
<b>Form/Colour</b>	
liquid	
clear	
<b>Odour</b>	
characteristic	
<b>pH value</b>	
No data available	
<b>Boiling point / boiling range</b>	
No data available	
<b>Melting point/freezing point</b>	
No data available	
<b>Decomposition temperature</b>	
No data available	
<b>Flash point</b>	
Value	> 200 °C
Method	open cup
<b>Ignition temperature</b>	
No data available	
<b>Flammability</b>	

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No data available			
<b>Lower explosion limit</b>			
No data available			
<b>Upper explosion limit</b>			
No data available			
<b>Vapour pressure</b>			
No data available			
<b>Relative vapour density</b>			
No data available			
<b>Relative density</b>			
No data available			
<b>Density</b>			
No data available			
<b>Solubility</b>			
No data available			
<b>Partition coefficient n-octanol/water (log value)</b>			
<b>No</b>	<b>Substance name</b>	<b>CAS no.</b>	<b>EC no.</b>
1	(octahydro-4,7-methano-1H-indenediyl)bis(methylene) diacrylate	42594-17-2	255-901-3
log Pow	4.54	-	4.64
with reference to	pH 7,3		
Method	OECD 117		
Source	ECHA		
2	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	400-600-6
log Pow		3,09	
Reference temperature		25	°C
with reference to	pH 7		
Source	ECHA		
3	n-hexane	110-54-3	203-777-6
log Pow		4	
Reference temperature		20	°C
Source	ECHA		
<b>Viscosity</b>			
Value	600	-	800 mPa*s
Type	dynamic		
<b>Particle characteristics</b>			
No data available			

## 9.2 Other information

<b>Other information</b>
No data available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable at ambient temperature.

### 10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

### 10.3 Possibility of hazardous reactions

Dangerous reactions are not to be expected when handling product according to its intended use.

### 10.4 Conditions to avoid

None, if handled according to intended use.

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## 10.5 Incompatible materials

None known.

## 10.6 Hazardous decomposition products

None, if handled according to intended use.

## SECTION 11: Toxicological information

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

Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	(octahydro-4,7-methano-1H-indenediyl)bis(methylene) diacrylate	42594-17-2	255-901-3
LD50	>	2000	mg/kg bodyweight
Species	rat		
Method	OECD 423		
Source	ECHA		
2	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	400-600-6
LD50	>	1984	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
3	cyclohexane	110-82-7	203-806-2
LD50	>	5000	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
4	n-hexane	110-54-3	203-777-6
LD50	>	24	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		

Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	(octahydro-4,7-methano-1H-indenediyl)bis(methylene) diacrylate	42594-17-2	255-901-3
LD50	>	2000	mg/kg bodyweight
Species	rat		
Method	OECD 402		
Source	ECHA		
2	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	400-600-6
LD50	>	2000	mg/kg bodyweight
Species	rat		
Method	OECD 402		
Source	ECHA		
3	cyclohexane	110-82-7	203-806-2
LD50	>	2000	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Acute inhalational toxicity			
No	Substance name	CAS no.	EC no.
1	cyclohexane	110-82-7	203-806-2
LC50	>	19.07	mg/l
Duration of exposure		4	h



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State of aggregation	Dust/mist
Species	rat
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.

Skin corrosion/irritation			
No	Substance name	CAS no.	EC no.
1	(octahydro-4,7-methano-1H-indenediyl)bis(methylene) diacrylate	42594-17-2	255-901-3
Method		OECD 439	
Source		ECHA	
Evaluation		non-irritant	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	400-600-6
Species		rabbit	
Method		OECD 404	
Source		ECHA	
Evaluation		non-irritant	

Serious eye damage/irritation			
No	Substance name	CAS no.	EC no.
1	(octahydro-4,7-methano-1H-indenediyl)bis(methylene) diacrylate	42594-17-2	255-901-3
Method		OECD 437	
Source		ECHA	
Evaluation		non-irritant	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	400-600-6
Species		rabbit	
Method		OECD 405	
Source		ECHA	
Evaluation		non-irritant	

Respiratory or skin sensitisation			
No	Substance name	CAS no.	EC no.
1	(octahydro-4,7-methano-1H-indenediyl)bis(methylene) diacrylate	42594-17-2	255-901-3
Route of exposure		Skin	
Species		guinea pig	
Method		OECD 406	
Source		ECHA	
Evaluation		sensitizing	
Evaluation/classification		Based on available data, the classification criteria are met.	
2	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	400-600-6
Route of exposure		respiratory tract	
Species		guinea pig	
Method		OECD 406	
Source		ECHA	
Evaluation		non-sensitizing	
3	n-hexane	110-54-3	203-777-6
Route of exposure		Skin	
Species		mouse	
Method		OECD 429	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Germ cell mutagenicity			
No	Substance name	CAS no.	EC no.
1	(octahydro-4,7-methano-1H-	42594-17-2	255-901-3

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<b>indenediyl)bis(methylene) diacrylate</b>			
Type of examination	in vitro gene mutation study in mammalian cells		
Species	Chinese hamster V79 cells		
Method	OECD 476		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Type of examination	in vitro gene mutation study in bacteria		
Species	Salmonella typhimurium TA98, TA100, TA102, TA1535, TA1537		
Method	OECD 471		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Type of examination	In vitro mammalian cytogenicity		
Species	Mouse lymphoma cells		
Method	OECD 487		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>2</b>	<b>2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one</b>	<b>71868-10-5</b>	<b>400-600-6</b>
Method	OECD 471		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>3</b>	<b>n-hexane</b>	<b>110-54-3</b>	<b>203-777-6</b>
Species	Salmonella typhimurium TA98, TA100, TA1535, TA1537		
Method	OECD 471		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

<b>Reproduction toxicity</b>			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>(octahydro-4,7-methano-1H-indenediyl)bis(methylene) diacrylate</b>	<b>42594-17-2</b>	<b>255-901-3</b>
Route of exposure		oral	
Type of examination	Toxicity study		
Species	rat		
Method	OECD 421		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>2</b>	<b>2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one</b>	<b>71868-10-5</b>	<b>400-600-6</b>
NOAEL	40		mg/kg bw/d
Species	rat		
Method	OECD 414		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are met.		
<b>3</b>	<b>n-hexane</b>	<b>110-54-3</b>	<b>203-777-6</b>
Species	rat		
Method	OECD 416		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

<b>Carcinogenicity</b>	
No data available	

<b>STOT - single exposure</b>	
No data available	

<b>STOT - repeated exposure</b>			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>(octahydro-4,7-methano-1H-indenediyl)bis(methylene) diacrylate</b>	<b>42594-17-2</b>	<b>255-901-3</b>
Route of exposure		oral	
Species	rat		
Method	OECD 407		

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Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
<b>2</b>	<b>2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one</b> <b>71868-10-5</b> <b>400-600-6</b>
Method	OECD 407
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.

## Aspiration hazard

No data available

## 11.2 Information on other hazards

### Endocrine disrupting properties

No data available.

### Other information

No data available.

## SECTION 12: Ecological information

### 12.1 Toxicity

Toxicity to fish (acute)			
No	Substance name	CAS no.	EC no.
1	(octahydro-4,7-methano-1H-indenediyl)bis(methylene) diacrylate	42594-17-2	255-901-3
LC50		1.65	mg/l
Duration of exposure		96	h
Species	Danio rerio		
Method	OECD 203		
Source	ECHA		
<b>2</b>	<b>2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one</b>	<b>71868-10-5</b>	<b>400-600-6</b>
LC50		9	mg/l
Duration of exposure		96	h
Species	Danio rerio		
Method	OECD 203		
Source	ECHA		
<b>3</b>	<b>cyclohexane</b>	<b>110-82-7</b>	<b>203-806-2</b>
LC50		4.53	mg/l
Duration of exposure		96	h
Species	Pimephales promelas		
Method	OECD 203		
Source	ECHA		

## Toxicity to fish (chronic)

No data available

Toxicity to Daphnia (acute)			
No	Substance name	CAS no.	EC no.
1	(octahydro-4,7-methano-1H-indenediyl)bis(methylene) diacrylate	42594-17-2	255-901-3
EC50		2.36	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
<b>2</b>	<b>2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one</b>	<b>71868-10-5</b>	<b>400-600-6</b>
EC50		15.3	mg/l
Duration of exposure		25	h
Species	Daphnia magna		
Method	OECD 202		

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Source	ECHA		
<b>3</b>	<b>cyclohexane</b>	<b>110-82-7</b>	<b>203-806-2</b>
EC50		0.9	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		

Toxicity to Daphnia (chronic)			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one</b>	<b>71868-10-5</b>	<b>400-600-6</b>
NOEC		1.0	mg/l
Duration of exposure		21	day(s)
Species	Daphnia magna		
Method	OECD 211		
Source	ECHA		

Toxicity to algae (acute)			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>(octahydro-4,7-methano-1H-indenediy)bis(methylene) diacrylate</b>	<b>42594-17-2</b>	<b>255-901-3</b>
EC50		1.6	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		
<b>2</b>	<b>2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one</b>	<b>71868-10-5</b>	<b>400-600-6</b>
ErC50		1.6	mg/l
Duration of exposure		72	h
Species	Desmodemus subspicatus		
Method	OECD 201		
Source	ECHA		
<b>3</b>	<b>cyclohexane</b>	<b>110-82-7</b>	<b>203-806-2</b>
ErC50	>	4.425	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Toxicity to algae (chronic)			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>cyclohexane</b>	<b>110-82-7</b>	<b>203-806-2</b>
NOEC		0.9	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		

Bacteria toxicity	
No data available	

## 12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>(octahydro-4,7-methano-1H-indenediy)bis(methylene) diacrylate</b>	<b>42594-17-2</b>	<b>255-901-3</b>
Type	aerobic biodegradation		
Value		28.1	%
Duration		28	
Method	OECD 301 F		

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Source Evaluation	ECHA Potentially biologically degradable (inherently biodegradable).
<b>2</b>	<b>2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one</b> <b>71868-10-5</b> <b>400-600-6</b>
Value	< 1 %
Duration	28 day(s)
Method	OECD 301 B
Source Evaluation	ECHA not readily biodegradable

Abiotic Degradation			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>(octahydro-4,7-methano-1H-indenediy)bis(methylene) diacrylate</b>	<b>42594-17-2</b>	<b>255-901-3</b>
Type	Hydrolysis		
Half-life		4	day(s)
pH value		1.2	
Reference temperature		37	°C
Method	OECD 111		
Source	ECHA		
Type	Hydrolysis		
Half-life		4.8	day(s)
pH value		9	
Reference temperature		50	°C
Method	OECD 111		
Source	ECHA		
<b>2</b>	<b>2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one</b>	<b>71868-10-5</b>	<b>400-600-6</b>
Type	Hydrolysis		
Source	ECHA		
Evaluation/classification	stable		

## 12.3 Bioaccumulative potential

Bioconcentration factor (BCF)			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one</b>	<b>71868-10-5</b>	<b>400-600-6</b>
BCF		5.3	- 10.1
Species	Oryzais latipes		
Method	Kanpogyo No. 5, Yakuhatsu No. 615, 49-Kikyoku No. 392		
Source	ECHA		

Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>(octahydro-4,7-methano-1H-indenediy)bis(methylene) diacrylate</b>	<b>42594-17-2</b>	<b>255-901-3</b>
log Pow		4.54	- 4.64
with reference to	pH 7,3		
Method	OECD 117		
Source	ECHA		
<b>2</b>	<b>2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one</b>	<b>71868-10-5</b>	<b>400-600-6</b>
log Pow		3,09	
Reference temperature		25	°C
with reference to	pH 7		
Source	ECHA		
<b>3</b>	<b>n-hexane</b>	<b>110-54-3</b>	<b>203-777-6</b>
log Pow		4	
Reference temperature		20	°C
Source	ECHA		

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## 12.4 Mobility in soil

Mobility in soil			
No	Substance name	CAS no.	EC no.
1	(octahydro-4,7-methano-1H-indenediyl)bis(methylene) diacrylate	42594-17-2	255-901-3
log Koc		3.61	
Method		OECD 121	
Source		ECHA	
2	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	400-600-6
log Koc		2.8	
Reference temperature		25 °C	
Method		OECD 121	
Source		ECHA	

## 12.5 Results of PBT and vPvB assessment

No data available.

## 12.6 Endocrine disrupting properties

No data available.

## 12.7 Other adverse effects

No data available.

## 12.8 Other information

### Other information

Do not discharge product unmonitored into the environment.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Disposal of the product should be carried out in accordance with all applicable regulations following consultation with the responsible local authority and the disposal company in an authorised and suitable disposal facility.

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

#### Packaging

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

## SECTION 14: Transport information

### 14.1 Transport ADR/RID/ADN

The product is not subject to ADR/RID/ADN regulations.

### 14.2 Transport IMDG

The product is not subject to IMDG regulations.

### 14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

### 14.4 Other information

No data available.

### 14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

### 14.6 Special precautions for user

No data available.

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

Not relevant

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## SECTION 15: Regulatory information

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

#### EU regulations

##### Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

##### REACH candidate list of substances of very high concern (SVHC) for authorisation

The product contains following substance(s) meeting the criteria in Article 57 in association with Article 59 of the REACH regulation ((EC) 1907/2006) that are placed on the list of candidates considered for inclusion in annex XIV (substances subject to Authorisation).

No	Substance name	CAS no.	EC no.
1	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	400-600-6

##### Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII. No 3

The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

No	Substance name	CAS no.	EC no.	No
1	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	400-600-6	30
2	cyclohexane	110-82-7	203-806-2	57

##### Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is not subject to Part 1 or 2 of Annex I.

##### Other regulations

Adhere to the national sanitary and occupational safety regulations when using this product.

### 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

## SECTION 16: Other information

#### Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

#### Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H361f	Suspected of damaging fertility.
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.

#### Creation of the safety data sheet

# EU safety data sheet

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

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