

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Koranol Compact MSL  
Article number : 4301600-00  
Revision date : 09.10.2019  
Print date : 09.10.2019  
Version (Revision) : 8.1.0 (8.0.0)

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

### 1.1 Product identifier

Koranol Compact MSL (4301600-00)

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

**Relevant identified uses**

Coatings

**Uses advised against**

No information available.

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

**Supplier (manufacturer/importer/only representative/downstream user/distributor)**

Kurt Obermeier GmbH & Co. KG  
Spezialchemikalien Holzschutz

**Street :** Berghäuser Str. 70

**Postal code/city :** 57319 Bad Berleburg

**Telephone :** +492751/524-0

**Telefax :** +492751/5041

**Information contact :** E-Mail: sdb@obermeier.de

### 1.4 Emergency telephone number

+49 / (0)700 24112112 (KOR)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008 [CLP]**

Aquatic Chronic 3 ; H412 - Hazardous to the aquatic environment : Chronic 3 ; Harmful to aquatic life with long lasting effects.

**Classification procedure**

Calculation method.

### 2.2 Label elements

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

**Hazard statements**

H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P273 Avoid release to the environment.

P501 Dispose of contents/container to appropriate disposal.

**Special rules for supplemental label elements for certain mixtures**

EUH208 Contains 3-IODO-2-PROPYNYL BUTYLCARBAMATE ; Fatty acids C18 unsat, reaction products with tetraethylenepentamine. May produce an allergic reaction.

### 2.3 Other hazards

Vapours can form explosive mixtures with air.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

**Hazardous ingredients**

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Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics ; REACH No. : 01-2119457273-39- ; EC No. : 918-481-9

Weight fraction :  $\geq 25 - < 40$  %  
Classification 1272/2008 [CLP] : Asp. Tox. 1 ; H304

3-IODO-2-PROPYNYL BUTYLCARBAMATE ; REACH No. : 01-2120762115-60 ; EC No. : 259-627-5; CAS No. : 55406-53-6 (M Acute=10) (M Chronic=1)

Weight fraction :  $\geq 0,25 - < 1$  %  
Classification 1272/2008 [CLP] : Acute Tox. 3 ; H331 STOT RE 1 ; H372 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Skin Sens. 1 ; H317 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

Fatty acids C18 unsat, reaction products with tetraethylenepentamine ; EC No. : 629-725-6; CAS No. : 1226892-45-0 (M Acute=10) (M Chronic=1)

Weight fraction :  $\geq 0,025 - < 0,1$  %  
Classification 1272/2008 [CLP] : Skin Corr. 1C ; H314 Skin Sens. 1A ; H317 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

### Additional information

Full text of H- and EUH-phrases: see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

Change contaminated, saturated clothing. When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps.

#### Following inhalation

Remove casualty to fresh air and keep warm and at rest. Provide fresh air.

#### In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. In case of skin reactions, consult a physician.

#### After eye contact

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

#### After ingestion

Do NOT induce vomiting. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Rinse mouth thoroughly with water.

#### Self-protection of the first aider

First aider: Pay attention to self-protection!

#### Notes for the doctor

#### Special treatment

Treat symptomatically.

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

May produce an allergic reaction.

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

None

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Carbon dioxide (CO<sub>2</sub>) alcohol resistant foam Water spray jet Extinguishing powder Sand

#### Unsuitable extinguishing media

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Full water jet

## 5.2 Special hazards arising from the substance or mixture

None

## 5.3 Advice for firefighters

In case of fire toxic gases may be formed. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

### Special protective equipment for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

## 5.4 Additional information

None

## SECTION 6: Accidental release measures

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

Take the precautions customary when handling chemicals. Use personal protection equipment. See protective measures under point 7 and 8.

### 6.2 Environmental precautions

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers).

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

#### For cleaning up

Take up mechanically. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal.

### 6.4 Reference to other sections

None

### 6.5 Additional information

No data available

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes.

#### Protective measures

Use only in well-ventilated areas. Do not breathe gas/fumes/vapour/spray.

#### Measures to prevent fire

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

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

#### Requirements for storage rooms and vessels

Keep/Store only in original container.

#### Hints on joint storage

Storage class (TRGS 510) : 10

#### Further information on storage conditions

Protect containers against damage.

### 7.3 Specific end use(s)

None

## SECTION 8: Exposure controls/personal protection

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### 8.1 Control parameters

#### Occupational exposure limit values

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Limit value type (country of origin) : Switzerland SUVA Limit Values ( D )

Limit value : 50 ml/m<sup>3</sup> / 300 mg/m<sup>3</sup>

Remark : MAK

Version :

Limit value type (country of origin) : Switzerland SUVA Limit Values ( D )

Limit value : 100 ml/m<sup>3</sup> / 600 mg/m<sup>3</sup>

Remark : KZG Wert

Version :

Limit value type (country of origin) : TRGS 900 ( D )

Limit value : 600 mg/m<sup>3</sup>

Version :

Limit value type (country of origin) : TWA ( D )

Limit value : 1200 mg/m<sup>3</sup> / 184 ppm

Version :

3-IODO-2-PROPYNYL BUTYLCARBAMATE ; CAS No. : 55406-53-6

Limit value type (country of origin) : TRGS 900 ( D )

Limit value : 0,005 ppm / 0,058 mg/m<sup>3</sup>

Peak limitation : 2(I)

Remark : Sh, Y

Version : 29.03.2019

Limit value type (country of origin) : MAK ( EC )

Limit value : 0,01 ml/m<sup>3</sup> / 0,12 mg/m<sup>3</sup>

Remark : S, SSc

Version :

Limit value type (country of origin) : Switzerland SUVA Limit Values ( EC )

Limit value : 0,02 ml/m<sup>3</sup> / 0,24 mg/m<sup>3</sup>

Remark : KZG

Version :

#### Biological limit values

No data available

#### DNEL-/PNEC-values

**DNEL/DMEL**

No data available

**PNEC**

No data available

### 8.2 Exposure controls

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

#### Personal protection equipment

##### Eye/face protection

Eye glasses with side protection

##### Skin protection

###### Hand protection

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. EN ISO 374

**Suitable material :** Butyl caoutchouc (butyl rubber) NBR (Nitrile rubber)

**Breakthrough time (maximum wearing time) :** 480 minutes. Check leak tightness/impermeability prior to use.

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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.

**Thickness of the glove material** : 0,4 mm

## Respiratory protection

Respiratory protection necessary at: exceeding exposure limit values aerosol or mist formation.

### Suitable respiratory protection apparatus

Filtering device with filter or ventilator filtering device of type: A

## General information

Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing. Wash hands before breaks and after work. Keep away from food, drink and animal feeding stuffs.

## 8.3 Additional information

No data available

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

**Physical state** : Liquid

**Colour** : Different according to colour

#### Odour

like: Hydrocarbons, aliphatic.

#### Safety characteristics

<b>Solidifying point :</b>	( 1 bar / 1 Pa )		not determined		Brookfield
<b>Melting point/freezing point :</b>			not determined		
<b>Freezing point :</b>			not determined		
<b>Initial boiling point and boiling range :</b>			not determined		
<b>Decomposition temperature :</b>			not determined		
<b>Flash point :</b>		>	61	°C	
<b>Auto-ignition temperature :</b>			not determined		
<b>Lower explosion limit :</b>			not determined		
<b>Upper explosion limit :</b>			not determined		
<b>Vapour pressure :</b>	( 50 °C )		not determined		
<b>Density :</b>	( 20 °C )	approx.	0,89	g/cm <sup>3</sup>	
<b>Solvent separation test :</b>	( 20 °C )		not determined		
<b>Fat solubility :</b>	( 20 °C )		Not determined.		
<b>Solubility in water</b>			Insoluble		
<b>pH :</b>	( 20 °C )		not applicable		
<b>log P O/W :</b>			not determined		
<b>Kinematic viscosity</b>	( 25 °C )	>	30	s	ISO 2431
<b>Cinematic viscosity :</b>	( 40 °C )	approx.	75	mm <sup>2</sup> /s	
<b>Solid content :</b>		approx.	54	Wt %	
<b>Odour threshold :</b>			not determined		
<b>Relative vapour density :</b>	( 20 °C )		not determined		
<b>Evaporation rate :</b>			not determined		
<b>Vapourisation rate :</b>			not determined		
<b>VOC-value :</b>		<	400	g/l	
<b>Flammable solids :</b>	Not determined.				
<b>Flammable gases :</b>	Not determined.				
<b>Oxidising liquids :</b>	Not determined.				
<b>Explosive properties :</b>	Not determined.				
<b>Corrosive to metals :</b>	Not determined.				

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## 9.2 Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reactions known.

### 10.2 Chemical stability

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

### 10.3 Possibility of hazardous reactions

No dangerous reactions known.

### 10.4 Conditions to avoid

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

### 10.5 Incompatible materials

Oxidising agent, strong.

### 10.6 Hazardous decomposition products

No information available.

### 10.7 Additional information

No data available

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Acute oral toxicity

Parameter : ATEmix calculated  
Exposure route : Oral  
Effective dose : > 2000 mg/kg

The product has not been tested.

##### Acute dermal toxicity

Parameter : LD50 ( Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : > 5000 mg/kg  
Method : OECD 402

Parameter : LD50 ( 3-IODO-2-PROPYNYL BUTYLCARBAMATE ; CAS No. : 55406-53-6 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : > 2000 mg/kg

The product has not been tested.

##### Acute inhalation toxicity

Parameter : LC50 ( Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : 4951 mg/m<sup>3</sup>  
Method : OECD 403

Parameter : LC50 ( 3-IODO-2-PROPYNYL BUTYLCARBAMATE ; CAS No. : 55406-53-6 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : 0,67 mg/l

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Exposure time : 4 h

The product has not been tested.

## Specific effects (Longterm animal experiment)

The product has not been tested.

## Corrosion

### Skin corrosion/irritation

Repeated exposure may cause skin dryness or cracking.

### Serious eye damage/eye irritation

slightly irritant

### Irritation to respiratory tract

slightly irritant

## Respiratory or skin sensitisation

### Skin sensitisation

The product has not been tested.

### Sensitisation to the respiratory tract

The product has not been tested.

## Repeated dose toxicity (subacute, subchronic, chronic)

The product has not been tested.

## CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

### Carcinogenicity

The product has not been tested.

### Germ cell mutagenicity

The product has not been tested.

### Reproductive toxicity

The product has not been tested.

## STOT-single exposure

The product has not been tested.

## STOT-repeated exposure

The product has not been tested.

## Aspiration hazard

The product has not been tested.

## 11.2 Toxicokinetics, metabolism and distribution

The product has not been tested.

## 11.3 Symptoms related to the physical, chemical and toxicological characteristics

No data available

## 11.4 Other adverse effects

No data available

## 11.5 Additional information

May produce an allergic reaction.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity

##### Acute (short-term) fish toxicity

Parameter : LC50 ( Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics )

Species : Oncorhynchus mykiss (Rainbow trout)

Effective dose : > 1000 mg/l

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Exposure time : 96 h  
Method : OECD 203  
Parameter : LC50 ( 3-IODO-2-PROPYNYL BUTYLCARBAMATE ; CAS No. : 55406-53-6 )  
Species : Oncorhynchus mykiss (Rainbow trout)  
Effective dose : 0,067 mg/l  
Exposure time : 96 h

The product has not been tested.

### Chronic (long-term) fish toxicity

Parameter : NOEC ( Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics )  
Species : Oncorhynchus mykiss (Rainbow trout)  
Effective dose : 0,1 mg/l  
Exposure time : 28 D

The product has not been tested.

### Acute (short-term) toxicity to crustacea

Parameter : EC50 ( Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics )  
Species : Daphnia magna (Big water flea)  
Effective dose : > 1000 mg/l  
Exposure time : 48 h  
Method : OECD 202

Parameter : EC50 ( 3-IODO-2-PROPYNYL BUTYLCARBAMATE ; CAS No. : 55406-53-6 )  
Species : Daphnia magna (Big water flea)  
Effective dose : 0,16 mg/l  
Exposure time : 48 h

The product has not been tested.

### Chronic (long-term) toxicity to crustacea

Parameter : NOEC ( Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics )  
Species : Daphnia magna (Big water flea)  
Effective dose : 0,18 mg/l  
Exposure time : 28 D

The product has not been tested.

### Acute (short-term) toxicity to aquatic algae and cyanobacteria

Parameter : ErC50 ( Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics )  
Species : Pseudokirchneriella subcapitata  
Effective dose : > 1000 mg/l  
Exposure time : 72 h  
Method : OECD 201

Parameter : EbC50 ( Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics )  
Species : Pseudokirchneriella subcapitata  
Effective dose : > 1000 mg/l  
Exposure time : 72 h  
Method : OECD 201

Parameter : EC50 ( 3-IODO-2-PROPYNYL BUTYLCARBAMATE ; CAS No. : 55406-53-6 )  
Species : Scenedesmus subspicatus  
Effective dose : 0,022 mg/l  
Exposure time : 72 h

The product has not been tested.

### Chronic (long-term) algae toxicity

Parameter : NOEC ( Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics )  
Species : Pseudokirchneriella subcapitata  
Effective dose : 1000 mg/l  
Exposure time : 72 h  
Method : OECD 201

The product has not been tested.



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### Toxicity to microorganisms

The product has not been tested.

### Terrestrial toxicity

The product has not been tested.

### Toxicity to terrestrial plants

The product has not been tested.

### Effects in sewage plants

The product has not been tested.

## 12.2 Persistence and degradability

### Abiotic degradation

The product has not been tested.

### Biodegradation

Parameter : Biodegradation ( Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics )  
Degradation rate : 80 %  
Test duration : 28 D  
Method : OECD 301F

The product has not been tested.

## 12.3 Bioaccumulative potential

The product has not been tested.

## 12.4 Mobility in soil

The product has not been tested.

## 12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

## 12.6 Other adverse effects

No data available

## 12.7 Additional ecotoxicological information

No data available

### Additional information

Discharge into the environment must be avoided.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Consult the appropriate local waste disposal expert about waste disposal.

#### Product/Packaging disposal

##### Waste treatment options

##### Appropriate disposal / Product

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

##### Appropriate disposal / Package

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

## SECTION 14: Transport information

Transport information Land transport (ADR/RID) : Sea transport (IMDG) : Air transport (ICAO-TI / IATA-DGR) :

### 14.1 UN number

No dangerous good in sense of these transport regulations.

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### 14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

### 14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

### 14.4 Packing group

No dangerous good in sense of these transport regulations.

### 14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

### 14.6 Special precautions for user

None

## SECTION 15: Regulatory information

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

#### EU legislation

##### Authorisations and/or restrictions on use

##### Restrictions on use

Use restriction according to REACH annex XVII, no. : 3

#### National regulations

##### Technische Anleitung Luft (TA-Luft)

Weight fraction (Number 5.2.5. I) : 0,1 - 1 %

Sum organic substances class III : 40 - 55 %

##### Water hazard class (WGK)

Class : 3 (Strongly hazardous to water) Classification according to AwSV

### 15.2 Chemical safety assessment

No information available.

## SECTION 16: Other information

### 16.1 Indication of changes

None

### 16.2 Abbreviations and acronyms

**REACH** - Registration, Evaluation, Authorisation of Chemicals

**GHS** - Globally Harmonised System of Classification and Labeling

**CLP** - Classification, Labeling and Packaging of Substances and Mixtures

**CAS** - Chemical Abstract Service

**TWA** - Time Weighted Average

**DNEL/DMEL** - Derived No Effect Level

**PNEC** - Predicted No Effect Concentration

**STP** - Sewage Treatment Plant

**TRGS** - Technical Rules for Hazardous Substances (German Regulations)

**STEL** - Short-term Exposure Limit

**TLV** - threshold limit value

**AGW** - Occupational threshold limit value

**RCP** - Reciprocal Calculation Procedure

**ATE** - Acute Toxicity Estimate

**MAK** Threshold limit values Germany

**LD50** - Lethal Dose, 50%

**LC50** - Lethal concentration, 50%

**OECD** - Organization for Economic Cooperation and Development

**NOAEL** - No Observed Adverse Effect Level

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**EC50** - half maximal effective concentration

**NOEC** - No Observed Effect Concentration

**PBT** - Persistent, Bioaccumulative, Toxic

**vPvB** - very Persistent, very Bioaccumulative

**ADR/RID** - European Agreement concerning the International Carriage of Dangerous Goods by Road (Accord européen relatif au transport international des marchandises Dangereuses par Route)/Regulations Concerning the International Transport of Dangerous Goods by Rail (Règlement concernant le transport International ferroviaire de marchandises Dangereuses)

**IMDG** - International Maritime Dangerous Goods Code

**ICAO** - International Civil Aviation Association

**IATA** - International Air Transport Association

**VwVws** - German administrative regulation on the classification of substances hazardous to water into water hazard classes

**AwSV** - Ordinance on facilities for handling substances that are hazardous to water

### 16.3 Key literature references and sources for data

None

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

No information available.

### 16.5 Relevant H- and EUH-phrases (Number and full text)

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
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.

### 16.6 Training advice

None

### 16.7 Additional information

None

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.