## SAFETY DATA SHEET



## **Hardtop Optima Comp B**

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

## 1.1 Product identifier

**Product name** : Hardtop Optima Comp B

**Product code** 9620 **Product description** : Hardener. **Product type** : Liquid. Other means of : Not available.

identification

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

Use in coatings - Industrial use Use in coatings - Professional use

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

Jotun A/S P.O.Box 2021 3202 Sandefjord Norway

Tel: +47 33 45 70 00 Fax: +47 33 45 72 42

E-mail: SDSJotun@jotun.no

## 1.4 Emergency telephone number

Norwegian National Poison Centre: +47 22 59 13 00

## SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

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

Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 1B, H360D

STOT RE 2, H373 (immune system)

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

**Hazard pictograms** 







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## **SECTION 2: Hazards identification**

Signal word

: Danger.

**Hazard statements** 

: H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage. H360D - May damage the unborn child.

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

(immune system)

**Precautionary statements** 

General

: Not applicable.

**Prevention** 

: P201 - Obtain special instructions before use.

P280 - Wear protective gloves, protective clothing, eye protection, face protection,

or hearing protection.

P260 - Do not breathe vapour or spray.

Response

: P308 + P313 - IF exposed or concerned: Get medical advice or attention. P362 + P364 - Take off contaminated clothing and wash it before reuse.

P302 + P352 - IF ON SKIN: Wash with plenty of water.

P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or doctor.

**Storage** 

: Not applicable.

**Disposal** 

: P501 - Dispose of contents and container in accordance with all local, regional,

national and international regulations.

**Hazardous ingredients** 

: 1,2-ethanediamine, n-[3-(dimethoxymethylsilyl)propyl]-

dioctyltin dilaurate

Supplemental label

elements

: Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and

: Restricted to professional users.

articles

**Special packaging requirements** 

Containers to be fitted with child-resistant

fastenings

: Not applicable.

Tactile warning of danger : Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII : This mixture does not contain any substances that are assessed to be a PBT or a

vPvB.

Other hazards which do not result in classification

: None known.

**SECTION 3: Composition/information on ingredients** 

3.2 Mixtures : Mixture

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## **SECTION 3: Composition/information on ingredients**

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
7,2-ethanediamine, n-[3- (dimethoxymethylsilyl) propyl]-	EC: 221-336-6 CAS: 3069-29-2	≥10 - <25	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317	ATE [Oral] = 500 mg/kg	[1]
dioctyltin dilaurate	EC: 222-883-3 CAS: 3648-18-8	<10	Repr. 1B, H360D STOT RE 1, H372 (immune system) See Section 16 for the full text of the H statements declared above.	-	[1] [2]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

## **Type**

**Eye contact** 

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

## **SECTION 4: First aid measures**

## 4.1 Description of first aid measures

General : In all cases of doubt, or when symptoms persist, seek medical attention. Never give

anything by mouth to an unconscious person. If unconscious, place in recovery

position and seek medical advice.

: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical

attention.

**Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is

irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by

trained personnel.

Skin contact : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and

water or use recognised skin cleanser. Do NOT use solvents or thinners.

Ingestion : If swallowed, seek medical advice immediately and show the container or label.

Keep person warm and at rest. Do NOT induce vomiting.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it

is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing

thoroughly with water before removing it, or wear gloves.

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

#### Over-exposure signs/symptoms

**Eye contact**: Adverse symptoms may include the following:

pain watering redness

**Inhalation** : Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations

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## SECTION 4: First aid measures

**Skin contact** : Adverse symptoms may include the following:

> pain or irritation redness

blistering may occur

reduced foetal weight increase in foetal deaths skeletal malformations

Ingestion Adverse symptoms may include the following:

> stomach pains reduced foetal weight increase in foetal deaths skeletal malformations

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

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments** : No specific treatment.

See toxicological information (Section 11)

## SECTION 5: Firefighting measures

## 5.1 Extinguishing media

Suitable extinguishing media

: Recommended: alcohol-resistant foam, CO2, powders, water spray.

Unsuitable extinguishing

media

: Do not use water jet.

## 5.2 Special hazards arising from the substance or mixture

**Hazards from the** substance or mixture : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

**Hazardous combustion** 

products

: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

#### 5.3 Advice for firefighters

Special protective actions for fire-fighters

: Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.

**Special protective** equipment for fire-fighters : Appropriate breathing apparatus may be required.

## **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any

information in Section 8 on suitable and unsuitable materials. See also the

information in "For non-emergency personnel".

6.2 Environmental precautions

: Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

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## **SECTION 6: Accidental release measures**

# 6.3 Methods and material for containment and cleaning up

: Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Preferably clean with a detergent. Avoid using solvents.

## 6.4 Reference to other sections

: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

## **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

## 7.1 Precautions for safe handling

Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the occupational exposure limits.

In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.

Mixture may charge electrostatically: always use earthing leads when transferring from one container to another.

Operators should wear antistatic footwear and clothing and floors should be of the conducting type.

Keep away from heat, sparks and flame. No sparking tools should be used.

Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Put on appropriate personal protective equipment (see Section 8).

Never use pressure to empty. Container is not a pressure vessel.

Always keep in containers made from the same material as the original one.

Comply with the health and safety at work laws.

Do not allow to enter drains or watercourses.

## Information on fire and explosion protection

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.

## 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations.

## Notes on joint storage

Keep away from: oxidising agents, strong alkalis, strong acids.

## Additional information on storage conditions

Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

See Technical Data Sheet / packaging for further information.

## 7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

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## **SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

#### 8.1 Control parameters

## Occupational exposure limits

Product/ingredient name	Exposure limit values
aroctyltin dilaurate	FOR-2011-12-06-1358 (Norway, 12/2022). [tinnforbindelser, organiske] Absorbed through skin. TWA: 0.1 mg/m³, (calculated as Sn) 8 hours.

## Recommended monitoring procedures

Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **DNELs/DMELs**

Product/ingredient name	Type	Exposure	Value	Population	Effects
1,2-ethanediamine, n-[3-	DNEL	Short term Oral	1.5 mg/kg	General	Systemic
(dimethoxymethylsilyl)propyl]-	DNEL	Long term Oral	bw/day 1.5 mg/kg bw/day	population General population	Systemic
	DNEL	Long term Dermal	1.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	3 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	5.2 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	21.1 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	26400 mg/ m <sup>3</sup>	General population	Systemic
dioctyltin dilaurate	DNEL	Long term Oral	0.0005 mg/ kg bw/day		Systemic
	DNEL	Long term Inhalation	0.0009 mg/ m <sup>3</sup>		Systemic
	DNEL	Long term Inhalation	0.0035 mg/ m³		Systemic

## **PNECs**

No PNECs available

## 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 vapours below the OEL, suitable respiratory protection must be worn.

#### **Individual protection measures**

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

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## SECTION 8: Exposure controls/personal protection

### **Eye/face protection**

: Safety eyewear complying to ISO 16321-1:2022 should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

#### Skin protection

## **Hand protection**

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

#### **Gloves**

Wear suitable gloves tested to ISO 374-1:2016.

May be used, gloves(breakthrough time) 4 - 8 hours: butyl rubber (> 0.4 mm), fluor rubber (> 0.35 mm)

For right choice of glove materials, with focus on chemical resistance and time of penetration, seek advice by the supplier of chemical resistant gloves.

The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

#### **Body protection**

: Personnel should wear antistatic clothing made of natural fibres or of hightemperature-resistant synthetic fibres.

#### Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

## **Respiratory protection**

: If workers are exposed to concentrations above the exposure limit, they must use a respirator according to EN 140. Use respiratory mask with charcoal and dust filter when spraying this product, according to EN 14387 (as filter combination A2-P2). In confined spaces, use compressed-air or fresh-air respiratory equipment. When use of roller or brush, consider use of charcoalfilter.

## **Environmental exposure** controls

: Do not allow to enter drains or watercourses.

## SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

## 9.1 Information on basic physical and chemical properties

#### **Appearance**

**Physical state** : Liquid. Colour : Colourless. Odour : Characteristic. : Not applicable. **Odour threshold** Melting point/freezing point : Not applicable.

**Initial boiling point and** 

boiling range

**Flammability** 

: Lowest known value: 240°C (464°F) (1,2-ethanediamine, n-[3-(dimethoxymethylsilyl)propyl]-).

: Not applicable. Lower and upper explosion : Not applicable.

limit

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## SECTION 9: Physical and chemical properties

Closed cup: 180°C Flash point

**Auto-ignition temperature** Lowest known value: 280°C (536°F) (1,2-ethanediamine, n-[3-

(dimethoxymethylsilyl)propyl]-).

**Decomposition temperature** 

pН : Not applicable.

**Viscosity** Kinematic ( $40^{\circ}$ C): >20.5 mm<sup>2</sup>/s Solubility in water cold water Not soluble

hot water Not soluble

Partition coefficient: n-octanol/ : Not available.

water

Not available.

Vapour pressure

: Highest known value: 0.001 kPa (0.008 mm Hg) (at 20°C) (1,2-ethanediamine, n-[3-(dimethoxymethylsilyl)propyl]-). Weighted average: 0.0008 kPa (0.006 mm

Hg) (at 20°C)

**Evaporation rate** Not available. Density 1.104 g/cm<sup>3</sup> Vapour density Not available. **Explosive properties** Not available. : Not available. Oxidising properties

**Particle characteristics** 

Median particle size : Not applicable.

#### 9.2 Other information

No additional information.

## SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : Stable under recommended storage and handling conditions (see Section 7).

10.3 Possibility of : Under normal conditions of storage and use, hazardous reactions will not occur. hazardous reactions

10.4 Conditions to avoid : When exposed to high temperatures may produce hazardous decomposition products.

10.5 Incompatible materials Keep away from the following materials to prevent strong exothermic reactions:

oxidising agents, strong alkalis, strong acids. : Decomposition products may include the following materials: carbon monoxide, 10.6 Hazardous

carbon dioxide, smoke, oxides of nitrogen. decomposition products

In contact with water, the product hydrolyses; during curing, releases Methanol. If the product is contaminated with water during production, transportation or storage, this may effect both flashpoint and hazard potential.

## SECTION 11: Toxicological information

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

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
7,2-ethanediamine, n-[3- (dimethoxymethylsilyl)propyl]	LD50 Oral	Mammal - species unspecified	200 mg/kg	-

**Acute toxicity estimates** 

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## **SECTION 11: Toxicological information**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
	2510.0 500	N/A N/A	N/A N/A	N/A N/A	N/A N/A
propyl]-		1471	14/7 (	1071	14/7

## **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
7,2-ethanediamine, n-[3- (dimethoxymethylsilyl)propyl]	Eyes - Severe irritant	Mammal - species unspecified	-	-	-
	Skin - Moderate irritant	Mammal - species unspecified	-	-	-

## **Sensitisation**

Product/ingredient name	Route of exposure	Species	Result
7,2-ethanediamine, n-[3- (dimethoxymethylsilyl)propyl]	skin	Mammal - species unspecified	Sensitising

## **Mutagenicity**

No known significant effects or critical hazards.

## **Carcinogenicity**

No known significant effects or critical hazards.

## **Reproductive toxicity**

**Developmental effects**: May damage the unborn child.

**Fertility effects**: No known significant effects or critical hazards.

**Teratogenicity** 

May damage the unborn child.

## Specific target organ toxicity (single exposure)

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

## Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
doctyltin dilaurate	Category 1	-	immune system

## **Aspiration hazard**

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

## 11.2 Information on other hazards

## 11.2.1 Endocrine disrupting properties

Not available.

## 11.2.2 Other information

Not available.

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## **SECTION 12: Ecological information**

## 12.1 Toxicity

There are no data available on the mixture itself.

Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is not classified as hazardous to the environment.

**Conclusion/Summary** : No known significant effects or critical hazards.

#### 12.2 Persistence and degradability

Conclusion/Summary : Not available.

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
dioctyltin dilaurate	-	<100	low

#### 12.4 Mobility in soil

Soil/water partition

: Not available.

coefficient (Koc)

: Not available.

## 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

## 12.6 Endocrine disrupting properties

Not available.

**Mobility** 

## 12.7 Other adverse effects

No known significant effects or critical hazards.

## **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 13.1 Waste treatment methods

## **Product**

**Methods of disposal** 

: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** 

Yes.

**Disposal considerations** 

: Do not allow to enter drains or watercourses.

Dispose of according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no

longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

#### **European waste catalogue (EWC)**

The European Waste Catalogue classification of this product, when disposed of as waste, is:

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## **SECTION 13: Disposal considerations**

Waste code	Waste designation
08 01 11*	Waste paint and varnish containing organic solvents or other dangerous substances

#### **Packaging**

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Disposal considerations** 

: Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned.

Dispose of containers contaminated by the product in accordance with local or national legal provisions.

Type of packaging		European waste catalogue (EWC)
CEPE Guidelines	15 01 10*	packaging containing residues of or contaminated by hazardous substances

## **Special precautions**

This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.

user

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Maritime transport in bulk according to IMO instruments

: Not available.

## SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

**Annex XIV** 

None of the components are listed.

Substances of very high concern

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## **SECTION 15: Regulatory information**

Intrinsic property	Ingredient name	Reference number	Date of revision
voxic to reproduction	dioctyltin dilaurate	D(2020) 9139-DC	19.01.2021

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, : Restricted to professional users.

mixtures and articles
Other EU regulations

VOC : Not available.VOC for Ready-for-Use : Not available.

**Mixture** 

Industrial emissions (integrated pollution prevention and control) - : Not listed

Air

Industrial emissions (integrated pollution prevention and control) - : Listed

Water

Ozone depleting substances (1005/2009/EU)

Not listed.

#### Prior Informed Consent (PIC) (649/2012/EU)

Annex	Ingredient name	Status
Annex I - Part 1	dioctyltin dilaurate	Listed

## **Persistent Organic Pollutants**

Not listed.

#### **Seveso Directive**

This product is not controlled under the Seveso Directive.

#### **National regulations**

Industrial use : The information contained in this safety data sheet does not constitute the user's

own assessment of workplace risks, as required by other health and safety

legislation. The provisions of the national health and safety at work regulations apply

to the use of this product at work.

**Norway** 

Product registration : 302080

number

## **International regulations**

## Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

## **Montreal Protocol**

Not listed.

## Stockholm Convention on Persistent Organic Pollutants

Not listed.

## **Rotterdam Convention on Prior Informed Consent (PIC)**

Not listed.

## **UNECE Aarhus Protocol on POPs and Heavy Metals**

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## **SECTION 15: Regulatory information**

Not listed.

15.2 Chemical safety

: Not applicable.

assessment

## **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

## Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Skin Irrit. 2, H315	Calculation method
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
Repr. 1B, H360D	Calculation method
STOT RE 2, H373 (immune system)	Calculation method

## Full text of abbreviated H statements

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H360D	May damage the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.

## Full text of classifications [CLP/GHS]

Acute Tox. 4	ACUTE TOXICITY - Category 4	
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1	
Repr. 1B	REPRODUCTIVE TOXICITY - Category 1B	
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2	
Skin Sens. 1	SKIN SENSITISATION - Category 1	
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1	
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2	

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## Notice to reader

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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

Hardtop Optima Comp B

## **SECTION 16: Other information**

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