

Hy-Spec CrystalSeal Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Issue date: 3/10/2022 Version: 2.0

SECTION 1: Identification of the substan 1.1. Product identifier	neelminture and of the company/undertaking	
1.1. Product identifier		
Product form	: Mixture	
Trade name	: Hy-Spec CrystalSeal	
1.2. Relevant identified uses of the substance	ce or mixture and uses advised against	
1.2.1. Relevant identified uses		
Use of the substance/mixture	: Adhesives, sealants	
1.2.2. Uses advised against		
Restrictions on use	: Any other uses other than the advised purpose	
1.3. Details of the supplier of the safety data	sheet	
Manufacturer		
Hodgson Sealants Limited		
Belprin Road; Beverley East Yorkshire; HU17 0LN		
United Kingdom		
T +44(0) 1482 868 321 - F +44 (0)1482 679 337 SDS@hodgsonsealants.com - www.hodgsonsealants	s com	
1.4. Emergency telephone number		
Emergency number : +	-44 (0) 207 858 1228	
2	247EmergencyAdvice@ohes.co.uk	
SECTION 2: Hazards identification 2.1. Classification of the substance or mixtu	ro.	
Classification according to Regulation (EC) No. 12		
Serious eye damage/eye irritation, Category 2	H319	
Hazardous to the aquatic environment — Chronic Hazard, Category 4 H413 Full text of H- and EUH-statements: see section 16		
Adverse physicschemical human backh and any	ivermentel effecte	
Adverse physicochemical, human health and envi Causes serious eye irritation. May cause long lasting		
2.2. Label elements		
Labelling according to Regulation (EC) No. 1272/2		
Hazard pictograms (CLP)		
	GHS07	
Signal word (CLP)	: Warning	
Hazard statements (CLP)	: H319 - Causes serious eye irritation.	
	H413 - May cause long lasting harmful effects to aquatic life.	
Precautionary statements (CLP)	: P280 - Wear protective clothing, eye protection, face protection. P337+P313 - If eye irritation persists: Get medical advice/attention.	
EUH-statements	: EUH210 - Safety data sheet available on request.	
2.3. Other hazards	. בסויבוס - סמוכני עמומ סווכבו מימוומטוב טוו ובקעבטו.	
Other hazards which do not result in classification	: The product hydrolyses under formation of methanol (CAS-Nr. 67-56-1). Methanol is classified concerning both physical and health hazards. The hydrolysis rate and consequently the relevance for the hazard profile of the product is strongly dependent on the specific conditions of use.	

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

SECTION 3: Composition/information on ingredients		
3.1. Substances		
Not applicable		
3.2. Mixtures		
Comments : Hazard	classification of this material is based on the worst possible case	

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
3-(trimethoxysilyl)propylamine	(CAS-No.) 13822-56-5 (EC-No.) 237-511-5 (REACH-no) 01-2119510159-45	< 5	Skin Irrit. 2, H315 Eye Dam. 1, H318
Trimethoxyvinylsilane	(CAS-No.) 2768-02-7 (EC-No.) 220-449-8 (REACH-no) 01-2119513215-52	≥1-<5	Skin Sens. 1B, H317 STOT RE 2, H373
Dioctyltin laurate substance listed as REACH Candidate (Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety)	(CAS-No.) 3648-18-8 (EC-No.) 222-883-3 (REACH-no) 01-2119979527-19	< 1	Acute Tox. 4 (Dermal), H312 Repr. 2, H361 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis(1,1- dimethylethyl)-4-hydroxyphenyl]methyl]butylmalonate	(CAS-No.) 63843-89-0 (EC-No.) 264-513-3 (REACH-no) 01-2119978231-37	< 1	Acute Tox. 4 (Oral), H302 STOT RE 1, H372 Aquatic Chronic 1, H410 (M=10)

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

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and effe	ects, both acute and delayed
Symptoms/effects after eye contact	: Eye irritation.
4.3. Indication of any immediate medicate	al attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Special hazards arising from the su	ubstance or mixture

J.Z. 0p	ecial hazarde anoling nom the substa	
Hazardo	ous decomposition products in case of fire	: Toxic fumes may be released.
5.3. Ad	lvice for firefighters	
Protecti	on during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

.1.1. For non-emergency personnel Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes.
.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
.2. Environmental precautions	
void release to the environment.	
3.3. Methods and material for contain	ment and cleaning up
lethods for cleaning up	: Take up liquid spill into absorbent material.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	

7.1. Precautions for safe handling

Precautions for safe handling

: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.

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Hygiene measures

product.

7.2. Conditions for safe storage, including any incompatibilities Storage conditions Storage conditions

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection 8.1. Control parameters

Exposure limit values for the other components

methanol (67-56-1)		
United Kingdom - Occupational Exposure Limits		
Local name	Methanol	
WEL TWA (OEL TWA) [1]	266 mg/m ³	
WEL TWA (OEL TWA) [2]	200 ppm	
WEL STEL (OEL STEL)	333 mg/m³	
WEL STEL (OEL STEL) [ppm]	250 ppm	
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
8.2. Exposure controls		

: Do not eat, drink or smoke when using this product. Always wash hands after handling the

Appropriate engineering controls: Ensure good ventilation of the work station.

Hand protection:	
Protective gloves	
Eye protection:	
Safety glasses	
Skin and body protection:	
Wear suitable protective clothing	
Respiratory protection:	
In case of insufficient ventilation, wear suitable respiratory equipment	

Personal protective equipment symbol(s):



Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
: Liquid		
: Paste.		
: Colourless. Silver.		
: characteristic.		
: No data available		

Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: ≈ 1.05
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 11200 mPa·s @23C
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	:

9.2. Other information No additional information available

SECTION 10: Stability and reactivity
10.1. Reactivity
The product is non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability
Stable under normal conditions.
10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.
10.4. Conditions to avoid
Moisture.
10.5. Incompatible materials
Incompatible with water, humid air.
10.6. Hazardous decomposition products
Contact with water liberates methanol and silanol- and/or siloxanol-compounds

Contact with water liberates methanol and silanol- and/or siloxanol-compounds.

SECTION 11: Toxicological information		
11.1. Information on toxicological effects		
Acute toxicity (oral)	: Not classified	
Acute toxicity (dermal)	: Not classified	
Acute toxicity (inhalation)	: Not classified	
bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]butylmalonate (63843-89-0)		
LD50 oral rat	1490 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 1300 - 1708	
LD50 dermal rat	 > 3170 mg/kg bodyweight Animal: rat, Guideline: other:Noakes, DN and Sanderson, D.M.; A method for determining the dermal toxicity of pesticides. Brit. J. Industr. Med., 26, 59-64, 1969, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) 	
LC50 Inhalation - Rat	> 0.46 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)	

Dioctyltin laurate (3648-18-8)	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Guideline: EU Method B.1 tris (Acute Oral Toxicity - Acute Toxic Class Method)
LD50 dermal rat	≥ 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified

Trimethoxyvinylsilane (2768-02-7)	
NOAEL (animal/male, F0/P)	1000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Combined Repeated Dose and Reproductive / Developmental Toxicity Screening Test (Precursor Protocol of GL 422)
NOAEL (animal/female, F0/P)	250 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Combined Repeated Dose and Reproductive / Developmental Toxicity Screening Test (Precursor Protocol of GL 422)
Dioctyltin laurate (3648-18-8)	
NOAEL (animal/male, F0/P)	0.3 – 0.4 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
NOAEL (animal/female, F0/P)	0.3 – 0.5 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Trimethoxyvinylsilane (2768-02-7)	
LOAEL (oral, rat, 90 days)	62.5 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
NOAEL (oral, rat, 90 days)	< 62.5 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

3-(trimethoxysilyl)propylamine (13822-56-5)	
	600 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90- Day Oral Toxicity in Rodents)
	200 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90- Day Oral Toxicity in Rodents)

bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]butylmalonate (63843-89-0)	
NOAEL (oral, rat, 90 days)	2 mg/kg bodyweight Animal: rat, Guideline: other:OECD 421

Aspiration hazard

: Not classified

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: May cause long lasting harmful effects to aquatic life.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: May cause long lasting harmful effects to aquatic life.
Trimethoxyvinylsilane (2768-02-7)	
LC50 - Fish [1]	> 100 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	168.7 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 957 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

3-(trimethoxysilyl)propylamine (13822-56-5)	
LC50 - Fish [1]	> 934 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	331 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 1000 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

EC50 72h - Algae [2] 603 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)	EC50 72h - Algae [2]	See ingit toot organisms (openies). Desine sousception too (protions in the second sec
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bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis	s(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]butylmalonate (63843-89-0)
LC50 - Fish [1]	> 100 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 72h - Algae [1]	61 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

Dioctyltin laurate (3648-18-8)	
LC50 - Fish [1]	> 0.09 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	> 0.21 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 0.0018 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessment	
Component	
Dioctyltin laurate (3648-18-8)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.

plicable Not applicable Not appli plicable Not applicable Not appli plicable Not applicable Not appli	ADR	IMDG	ΙΑΤΑ	ADN	RID
plicable Not applicable Not appli plicable Not applicable Not appli plicable Not applicable Not appli	4.1. UN number	1		1	1
plicable Not applicable Not appli plicable Not applicable Not appli	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
plicable Not applicable Not appli plicable Not applicable Not appli	14.2. UN proper shippin	g name			
plicable Not applicable Not appli	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
plicable Not applicable Not appli	14.3. Transport hazard	class(es)			
	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
	14.4. Packing group				
plicable Not applicable Not appli	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
plicable Not applicable Not appli	14.5. Environmental haz	zards			
	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
	No supplementary information	on available			
	4.6. Special precaution	s for user			
	Overland transport				
	No supplementary information (4.6. Special precaution) Overland transport Not applicable				

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

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Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains a substance on the REACH candidate list in concentration \geq 0.1% or with a lower specific limit: Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety (EC 222-883-3, CAS 3648-18-8)

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
ΙΑΤΑ	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
РВТ	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail

SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties
Full text of H- and EUH-statements:	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 4	Hazardous to the aquatic environment — Chronic Hazard, Category 4
EUH210	Safety data sheet available on request.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H361	Suspected of damaging fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
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.
H413	May cause long lasting harmful effects to aquatic life.
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1B	Skin sensitisation, category 1B
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2

HSL SDS EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.