

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

ARC MS-11 ADH & SEAL 290ML CLEAR 12

Supercedes Date: 24-Dec-2021

Revision date 05-Nov-2022 Revision Number 1.01

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

1.1. Product identifier

Product Name ARC MS-11 ADH & SEAL 290ML CLEAR 12

Other means of identification

Pure substance/mixture Mixture

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

Recommended use Adhesives and/or sealants

Uses advised against None known

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

**Company Name** 

Bostik Benelux B.V. Denariusstraat 11 4903 RC Oosterhout The Netherlands Tel: + 31 162 491 000

E-mail address SDS.box-EU@bostik.com

1.4. Emergency telephone number

Ireland NPIC - National Poison Information Centre

Members of the Public: +353 (01) 8092166 (8.00 am to 10.00 pm - 7 days a week)

Healthcare Professionals: +353 (01) 8092566 (24 hour service)

United Kingdom Bostik: +44 (1785) 272650

Europe 113

# **SECTION 2: Hazards identification**

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

Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

### 2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

#### **Hazard statements**

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

### **EU Specific Hazard Statements**

EUH208 - Contains Trimethoxyvinylsilane & N-(3-(trimethoxysilyl)propyl)ethylenediamine & N-[3-(Dimethoxymethylsilyl)propyl]-ethylenediamine. May produce an allergic reaction EUH210 - Safety data sheet available on request

# 2.3. Other hazards

Ireland - BE Page 1/16

ARC MS-11 ADH & SEAL 290ML CLEAR 12

Supercedes Date: 24-Dec-2021

Revision date 05-Nov-2022 Revision Number 1.01

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Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing.

#### PBT & vPvB

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

# SECTION 3: Composition/information on ingredients

# 3.1 Substances

Not applicable

#### 3.2 Mixtures

Chemical name	EC No (EU	CAS No.	Classification	Specific	M-Factor	M-Factor	REACH
	Index No).		according to	concentration limit		(long-ter	registration
			Regulation (EC) No.	(SCL)		m)	number
			1272/2008 [CLP]	, ,		,	
Diisononyl phthalate	249-079-5	28553-12-0	[1]	-	-	-	01-2119430798-
>25 - <40 %							28-XXXX
Trimethoxyvinylsilane	(014-049-00-	2768-02-7	Skin Sens. 1B (H317)	-	-	-	01-2119513215-
1 - <5 %	0)		Acute Tox. 4 (H332)				52-XXXX
	220-449-8		Flam. Liq. 3 (H226)				
N-(3-(trimethoxysilyl)pro	217-164-6	1760-24-3	Eye Dam. 1 (H318)	-	-	-	01-2119970215-
pyl)ethylenediamine			Skin Sens. 1 (H317)				39-XXXX
0.1- <1 %			Acute Tox. 4 (H332)				
			STOT SE 3 (H335)				
Disabiltie suide	040 704 4	070.00.0	CTOT CE 0 (U074)				04.0440074000
Dioctyltin oxide 0.1- <1 %	212-791-1	870-08-6	STOT SE 2 (H371)	-	-	-	01-2119971268- 27-xxxx
N-[3-(Dimethoxymethylsil	221-336-6	3069-29-2	Acute Tox. 4 (H302)	-	-	-	01-2119963926-
yl)propyl]-ethylenediamin			Skin Irrit. 2 (H315)				21-xxxx
e e			Eye Dam. 1 (H318)				
0.1- <1 %			Skin Sens. 1A (H317)				
			, ,				

# Air contaminants formed when using the substance or mixture as intended

Chemical name	EC No (EU Index No)	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-ter m)	_
Methyl alcohol 67-56-1	(603-001-00 -X) 200-659-6	1 - <2.5	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) STOT SE 1 (H370) Flam. Lig. 2 (H225)	STOT SE 1 :: C>=10% STOT SE 2 :: 3%<=C<10%	-	-	01-211943330 7-44-XXXX

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

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

[I] - Restricted substance per REACH Annex XVII

#### Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Ireland - BE Page 2/16

ARC MS-11 ADH & SEAL 290ML CLEAR 12

Supercedes Date: 24-Dec-2021

mine

Revision date 05-Nov-2022

**Revision Number** 1.01

Chemical name EC No (EU CAS No Oral LD50 Dermal LD50 Inhalation Inhalation Inhalation Index No) \_C50 - 4 hour - L mg/kg mg/kg .C50 - 4 hour \_C50 - 4 hour dust/mist vapour - mg/L gas - ppm mg/L Diisononyl phthalate 249-079-5 28553-12-0 Trimethoxyvinylsilane (014-049-00-0) 2768-02-7 11 220-449-8 N-(3-(trimethoxysilyl)pr 217-164-6 1760-24-3 1.5 opyl)ethylenediamine 212-791-1 870-08-6 Dioctyltin oxide N-[3-(Dimethoxymethyl 221-336-6 3069-29-2 500 silyl)propyl]-ethylenedia

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. If medical advice is needed,

have product container or label at hand.

**Inhalation** Remove to fresh air. If symptoms persist, call a doctor.

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

**Skin contact** In the case of skin irritation or allergic reactions see a doctor. Wash skin with soap and

water.

**Ingestion** Call a doctor immediately. Rinse mouth thoroughly with water. Never give anything by

mouth to an unconscious person. Small amounts of toxic methanol are released by

hydrolysis.

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

Symptoms None known.

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

Note to doctors Treat symptomatically. Small amounts of methanol (CAS 67-56-1) are formed by

hydrolysis and released upon curing.

# SECTION 5: Firefighting measures

5.1. Extinguishing media

**Suitable Extinguishing Media** Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

**Unsuitable extinguishing media** Full water jet.

5.2. Special hazards arising from the substance or mixture

**Specific hazards arising from the** Thermal decomposition can lead to release of irritating gases and vapours.

chemical

Ireland - BE Page 3/16

ARC MS-11 ADH & SEAL 290ML CLEAR

Supercedes Date: 24-Dec-2021

Revision date 05-Nov-2022 Revision Number 1.01

Hazardous combustion products Carbon oxides. Carbon monoxide. Carbon dioxide (CO2). Silicon dioxide.

5.3. Advice for firefighters

precautions for fire-fighters

Special protective equipment and Wear self contained breathing apparatus for fire fighting if necessary.

# **SECTION 6: Accidental release measures**

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

**Personal precautions** Use personal protective equipment as required. Ensure adequate ventilation. Do not get

in eyes, on skin, or on clothing.

Use personal protection recommended in Section 8. For emergency responders

6.2. Environmental precautions

**Environmental precautions** Prevent product from entering drains. Do not allow to enter into soil/subsoil. See Section

12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

**Methods for containment** Do not scatter spilled material with high pressure water streams.

Take up mechanically, placing in appropriate containers for disposal. Methods for cleaning up

Clean contaminated objects and areas thoroughly observing environmental regulations. Prevention of secondary hazards

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

# SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Advice on safe handling Ensure adequate ventilation.

General hygiene considerations Do not eat, drink or smoke when using this product. Wash hands before breaks and after

work.

7.2. Conditions for safe storage, including any incompatibilities

Protect from moisture. Keep away from food, drink and animal feedingstuffs. **Storage Conditions** 

Recommended storage

temperature

Keep at temperatures between 10 and 35 °C.

7.3. Specific end use(s)

Specific use(s)

Adhesives and/or sealants.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

Other information Observe technical data sheet.

# SECTION 8: Exposure controls/personal protection

Ireland - BE Page 4 / 16

ARC MS-11 ADH & SEAL 290ML CLEAR 12 Supercedes Date: 24-Dec-2021

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Revision date 05-Nov-2022

Revision Number 1.01

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8.1. Control parameters

**Exposure Limits** Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing

Chemical name	European Union	Ireland	United Kingdom
Diisononyl phthalate	-	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>
28553-12-0		STEL: 15 mg/m <sup>3</sup>	STEL: 15 mg/m <sup>3</sup>
Methyl alcohol	TWA: 200 ppm	TWA: 200 ppm	TWA: 200 ppm
67-56-1	TWA: 260 mg/m <sup>3</sup>	TWA: 260 mg/m <sup>3</sup>	TWA: 266 mg/m <sup>3</sup>
	*	STEL: 600 ppm	STEL: 250 ppm
		STEL: 780 mg/m <sup>3</sup>	STEL: 333 mg/m <sup>3</sup>
		Sk*	Sk*
Dioctyltin oxide	-	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>
870-08-6		STEL: 0.2 mg/m <sup>3</sup>	STEL: 0.2 mg/m <sup>3</sup>
			Sk*

Derived No Effect Level (DNEL) No information available

Derived No Effect Level (DNEL)					
Diisononyl phthalate (28553-12-0)					
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor		
worker Long term Systemic health effects	Inhalation	51.72 mg/m³			
worker Long term Systemic health effects	Dermal	366 mg/kg bw/d			

Trimethoxyvinylsilane (2768-02-7)				
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor	
worker Systemic health effects Long term	Inhalation	27,6 mg/m <sup>3</sup>		
worker Systemic health effects Long term	Dermal	3,9 mg/kg bw/d		

N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)					
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor		
worker Systemic health effects Long term	Inhalation	35.5 mg/m³			
worker Systemic health effects Long term	Dermal	5 mg/kg bw/d			

Dioctyltin oxide (870-08-6)					
Туре	1		Safety factor		
		(DNEL)			
worker	Dermal	0.05 mg/kg bw/d			
Long term					
Systemic health effects					
worker	Inhalation	0.004 mg/m <sup>3</sup>			
Long term					
Systemic health effects					

# N-[3-(Dimethoxymethylsilyl)propyl]-ethylenediamine (3069-29-2)

Ireland - BE Page 5 / 16

Revision date 05-Nov-2022

ARC MS-11 ADH & SEAL 290ML CLEAR 12 Supercedes Date: 24-Dec-2021

Supercedes Date: 24-Dec-2021 Revision Number 1.01

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Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Inhalation	12 mg/m³	
worker Long term Systemic health effects	Dermal	1.7 mg/kg bw/d	

<b>Derived No Effect Level (DN</b>	Derived No Effect Level (DNEL)				
Trimethoxyvinylsilane (2768	-02-7)				
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor		
Consumer Systemic health effects Long term	Inhalation	18,9 mg/m³			
Consumer Systemic health effects Long term	Dermal	7,8 mg/kg bw/d			
Consumer Systemic health effects Long term	Oral	0,3 mg/kg bw/d			

N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)					
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor		
Consumer Systemic health effects Long term	Oral	2.5 mg/kg bw/d			
Consumer Systemic health effects Long term	Inhalation	8.7 mg/m³			
Consumer Systemic health effects Long term	Dermal	2.5 mg/kg bw/d			

Dioctyltin oxide (870-08-6)				
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor	
Consumer Long term Systemic health effects	Oral	0.0005 mg/kg bw/d		
Consumer Long term Systemic health effects	Dermal	0.025 mg/kg bw/d		
Consumer Long term Systemic health effects	Inhalation	0.0009 mg/m³		

N-[3-(Dimethoxymethylsilyl)propyl]-ethylenediamine (3069-29-2)				
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor	
Consumer Long term Systemic health effects	Inhalation	2.9 mg/m³		
Consumer Long term Systemic health effects	Dermal	0.83 mg/kg bw/d		
Consumer	Oral	0.83 mg/kg bw/d		

Ireland - BE Page 6 / 16

ARC MS-11 ADH & SEAL 290ML CLEAR 12

Supercedes Date: 24-Dec-2021

Revision date 05-Nov-2022 Revision Number 1.01

Long term Systemic health effects		

# Predicted No Effect Concentration (PNEC)

Predicted No Effect Concentration (PNEC)				
Trimethoxyvinylsilane (2768-02-7)				
Environmental compartment	Predicted No Effect Concentration (PNEC)			
Freshwater	0.34 mg/l			
Marine water	0.034 mg/l			
Microorganisms in sewage treatment	110 mg/l			

N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)				
Environmental compartment	Predicted No Effect Concentration (PNEC)			
Freshwater	0.062 mg/l			
Marine water	0.0062 mg/l			
Sewage treatment plant	25 mg/l			

Dioctyltin oxide (870-08-6)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater sediment	0.02798 mg/kg dry weight
Marine sediment	0.002798 mg/kg dry weight
Microorganisms in sewage treatment	100 mg/l

N-[3-(Dimethoxymethylsilyl)propyl]-ethylenediamine (3069-29-2)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.062 mg/l
Marine water	0.006 mg/l
Sewage treatment plant	25 mg/l
Freshwater sediment	0.24 mg/kg dry weight
Marine sediment	0.024 mg/kg dry weight
Soil	0.01 mg/kg dry weight

# 8.2. Exposure controls

**Engineering controls** Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles). Eye protection must conform to

standard EN 166

**Hand protection** Wear suitable gloves. Recommended Use:. Neoprene™. Nitrile rubber. Butyl rubber.

Glove thickness > 0.7mm. The breakthrough time for the mentioned glove material is in general greater than 480 min. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific

gloves. Gloves must conform to standard EN 374

Skin and body protection Respiratory protection

In case of inadequate ventilation wear respiratory protection. Wear a respirator

conforming to EN 140 with Type A/P2 filter or better. Ensure adequate ventilation,

especially in confined areas.

**Recommended filter type:** Organic gases and vapours filter conforming to EN 14387. White. Brown.

None under normal use conditions.

Environmental exposure controls Do not allow uncontrolled discharge of product into the environment.

# SECTION 9: Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

Physical state Solid Appearance Paste

**Colour** See section 1 for more information

Odour Characteristic.

Ireland - BE Page 7/16

Revision date 05-Nov-2022

**Revision Number** 1.01

ARC MS-11 ADH & SEAL 290ML CLEAR 12 Supercedes Date: 24-Dec-2021

None known

Odour threshold No information available

Property Values Remarks • Method

Melting point / freezing pointNo data availableNone knownInitial boiling point and boilingNo data availableNone knownrangeNo data available

Flammability No data available None known Flammability Limit in Air None known

Upper flammability or explosive No data available

imits

Lower flammability or explosive No data available

limits

Flash point > 60 °C

Autoignition temperatureNo data availableNone knownDecomposition temperatureNone known

pH

pH (as aqueous solution) No data available

Kinematic viscosity > 21 mm²/s Dynamic viscosity No data available

Water solubility No data available. Product cures with

moisture

Solubility(ies)No data availableNone knownPartition coefficientNo data availableNone knownVapour pressureNo data availableNone knownRelative densityNo data availableNone known

Bulk Density

No data available

Liquid Density 1,06

Relative vapour density No data available None known

**Particle characteristics** 

Particle Size No information available Particle Size Distribution No information available

9.2. Other information

Solid content (%) No information available

VOC content No data available

9.2.1. Information with regards to physical hazard classes Not applicable

Not applicable

9.2.2. Other safety characteristics

No information available

# SECTION 10: Stability and reactivity

10.1. Reactivity

**Reactivity** Product cures with moisture.

10.2. Chemical stability

**Stability** Stable under normal conditions.

**Explosion data** 

Sensitivity to mechanical None.

impact

Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

Ireland - BE Page 8 / 16

ARC MS-11 ADH & SEAL 290ML CLEAR 12 Supercedes Date: 24-Dec-2021

10.4. Conditions to avoid

Conditions to avoid Product cures with moisture. Protect from moisture. Exposure to air or moisture over

prolonged periods. Do not freeze. Keep away from open flames, hot surfaces and

Revision date 05-Nov-2022

**Revision Number** 1.01

sources of ignition.

10.5. Incompatible materials

**Incompatible materials**None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition

Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon

**products** curing.

# SECTION 11: Toxicological information

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

#### Information on likely routes of exposure

#### **Product Information**

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

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

**Skin contact**Based on available data, the classification criteria are not met. May cause sensitisation in

susceptible persons.

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

# Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Acute toxicity

### **Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (inhalation-vapour) 554.5940 mg/l

# **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Diisononyl phthalate	>9750 mg/kg (Rattus)	>3160 mg/Kg (Oryctolagus cuniculus)	>4.4 mg/L (Rattus) 4 h
Trimethoxyvinylsilane	LD50 = 7120 -7236 mg/kg (Rattus) OECD 401	= 3540 mg/kg (Oryctolagus cuniculus)	LC50 (4hr) 16.8 mg/l (Rattus) OECD TG 403
N-(3-(trimethoxysilyl)propyl)eth ylenediamine	=2295 mg/kg (Rattus)	>2000 mg/Kg (Rattus)	LC50 4H (Aerosol)1.5 - 2.44 mg/L air
Dioctyltin oxide	=2500 mg/kg (Rattus)	LD50 > 2000 mg/kg (Rattus) OECD 402	-
N-[3-(Dimethoxymethylsilyl)pro pyl]-ethylenediamine	=200 - 2000 mg/Kg (Rattus) (OECD 401)	>5000 mg/Kg (Oryctolagus cuniculus) (OECD 402)	> 5.2 mg/L (Rat)4 h

Ireland - BE Page 9/16

ARC MS-11 ADH & SEAL 290ML CLEAR 12

Supercedes Date: 24-Dec-2021

Revision date 05-Nov-2022 Revision Number 1.01

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Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation**Based on available data, the classification criteria are not met.

Trimethoxyvinylsilane (2768-02-7)

Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rabbit	Dermal	0.5 mL	24 hours	Non-irritant

N-[3-(Dimethoxymethylsilyl)propyl]-ethylenediamine (3069-29-2)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 404:	Rabbit	Dermal			irritant
Acute Dermal					
Irritation/Corrosion					

Serious eye damage/eye irritation Based on available data, the classification criteria are not met.

Trimethoxyvinylsilane (2768-02-7)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405:	Rabbit	eye		24 hours	Non-irritant
Acute Eye					
Irritation/Corrosion					

N-[3-(Dimethoxymethylsilyl)propyl]-ethylenediamine (3069-29-2)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405:	Rabbit				Eye Damage
Acute Eye					
Irritation/Corrosion					

Respiratory or skin sensitisation

OECD Test No. 406: Skin Sensitisation. No sensitisation responses were observed. No classification is proposed, based on conclusive negative data. May cause sensitisation in susceptible persons.

Method	Species	Exposure route	Results
OECD Test No. 406: Skin	Guinea pig	Dermal	No sensitisation responses
Sensitisation			were observed

Trimethoxyvinylsilane (2768-02-7)

Method	Species	Exposure route	Results
OECD Test No. 406: Skin	Guinea pig	Dermal	sensitising
Sensitisation, Buehler test			_

N-[3-(Dimethoxymethylsilyl)propyl]-ethylenediamine (3069-29-2)

Method	Species	Exposure route	Results
OECD Test No. 406: Skin	Guinea pig		Sensitizing
Sensitisation	-		-

# Germ cell mutagenicity

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

Component Information

Trimethoxyvinylsilane (2768-02-7)

Method	Species	Results
OECD Test No. 471: Bacterial Reverse	in vitro	Not mutagenic
Mutation Test		_

### Carcinogenicity

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

Ireland - BE Page 10/16

ARC MS-11 ADH & SEAL 290ML CLEAR 12

Supercedes Date: 24-Dec-2021

Revision date 05-Nov-2022 Revision Number 1.01

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

Trimethoxyvinylsilane (2768-02-7)

Method	Species	Results
OECD Test No. 422: Combined Repeated Dose	Rat	Not Classifiable
Toxicity Study with the		
Reproduction/Developmental Toxicity Screening		
Test		

STOT - single exposure

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

Dioctyltin oxide (870-08-6)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 422:	Rat	Oral	5 mg/kg	28 days	0.3 - 0.5 mg/kg
Combined Repeated Dose					bw/d May cause
Toxicity Study with the					damage to the
Reproduction/Developme					following organs:
ntal Toxicity Screening					Immune system
Test					•

STOT - repeated exposure

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

Trimethoxyvinylsilane (2768-02-7)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 413:	Rat	Inhalation vapour		90 days	0.058 NOAEL
Sub-chronic Inhalation					
Toxicity: 90-day Study					

Dioctyltin oxide (870-08-6)

= 10 01) 1111 0111 01 00 0					
Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rat Rabbit			28 days	0.3 -0.5 mg/kg bw/d

**Aspiration hazard** 

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

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** 

11.2.2. Other information

Other adverse effects No information available.

# **SECTION 12: Ecological information**

#### **12.1. Toxicity**

### **Ecotoxicity**

Chemical name	Algae/aquatic	Fish	Toxicity to	Crustacea	M-Factor	M-Factor
	plants		microorganisms			(long-term)
Diisononyl phthalate	EC50: >500mg/L	LC50 96 h > 100	-	EC50: >500mg/L		
28553-12-0	(72h,	mg/L		(48h, Daphnia		
	Desmodesmus	(Brachydanio		magna)		

Ireland - BE Page 11/16

Revision date 05-Nov-2022

Revision Number 1.01

ARC MS-11 ADH & SEAL 290ML CLEAR 12

Supercedes Date: 24-Dec-2021

	subspicatus)	rerio semi-static)		EC50:	
	EC50: >1.8mg/L			>0.06mg/L (48h,	
	(96h,			Daphnia magna)	
	Pseudokirchneri				
	ella subcapitata)				
Trimethoxyvinylsilane	EC 50 (72h) >	LC50 (96h) =	-	EC50(48hr)	
2768-02-7	957 mg/l	191 mg/l		168.7mg/l	
	(Desmodesmus	(Oncorhynchus		(Daphnia	
	subspicatus)	mykiss)		magna)	
	EU Method C.3				
N-(3-(trimethoxysilyl)pr	-	LC50 (96H)	-	EC50 (48h)	
opyl)ethylenediamine		=597 mg/L		=81mg/L	
1760-24-3		(Danio		Daphnia magna	
		rerio)Semi-static		Static	
Dioctyltin oxide	EC50 (3hr)	LC50 (96hr)	-	EC50 (48Hr)	
870-08-6	>1.000 mg/l	>0,09 mg/l		>0,21 mg/l	
	(bacteria)	(Brachydanio		(Daphnia magna	
	(Activated	rerio (zebra))		(Dappnia	
	Sludge,	(Acute Toxicity		magna))	
	Respiration	Test)		(Daphnia sp.	
	Inhibition Test)			Acute	
				Immobilisation	
				Test)	

# 12.2. Persistence and degradability

Persistence and degradability No information available.

Trimethoxyvinylsilane (2768-02-7)

Method	Exposure time	Value	Results
OECD Test No. 301F: Ready	28 days	BOD	51 % Not readily
Biodegradability: Manometric	·		biodegradable
Respirometry Test (TG 301 F)			

Dioctyltin oxide (870-08-6)

Method	Exposure time	Value	Results
OECD Test No. 301F: Ready	755 hours	biodegradation	Not readily biodegradable 2
Biodegradability: Manometric			%
Respirometry Test (TG 301 F)			

# 12.3. Bioaccumulative potential

# **Bioaccumulation**

**Component Information** 

Chemical name	Partition coefficient
Diisononyl phthalate	9.7
Trimethoxyvinylsilane	1.1
N-(3-(trimethoxysilyl)propyl)ethylenediamine	-0.3
Dioctyltin oxide	6

# 12.4. Mobility in soil

Mobility in soil No information available.

# 12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.

Chemical name	PBT and vPvB assessment
Diisononyl phthalate	The substance is not PBT / vPvB PBT assessment does

Ireland - BE Page 12/16

ARC MS-11 ADH & SEAL 290ML CLEAR

Supercedes Date: 24-Dec-2021

	not apply
Trimethoxyvinylsilane	The substance is not PBT / vPvB
N-(3-(trimethoxysilyl)propyl)ethylenediamine	The substance is not PBT / vPvB
Dioctyltin oxide	The substance is not PBT / vPvB
N-[3-(Dimethoxymethylsilyl)propyl]-ethylenediamine	The substance is not PBT / vPvB

#### 12.6. Endocrine disrupting properties

No information available. **Endocrine disrupting properties** 

### 12.7. Other adverse effects

No information available.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste from residues/unused products

Dispose of contents/container in accordance with local, regional, national, and

Revision date 05-Nov-2022

**Revision Number** 1.01

international regulations as applicable.

Contaminated packaging Handle contaminated packages in the same way as the product itself.

08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09 **European Waste Catalogue** 

Other information Waste codes should be assigned by the user based on the application for which the

product was used.

# **SECTION 14: Transport information**

### Land transport (ADR/RID)

14.1 UN number or ID number Not regulated 14.2 Proper Shipping Name Not regulated 14.3 Transport hazard class(es) Not regulated Not regulated 14.4 Packing group 14.5 Environmental hazards Not applicable

14.6 Special Provisions None

# **IMDG**

14.1 UN number or ID number Not regulated 14.2 Proper Shipping Name Not regulated 14.3 Transport hazard class(es) Not regulated 14.4 Packing group Not regulated 14.5 Marine pollutant NP

14.6 Special Provisions None

Not applicable 14.7 Maritime transport in bulk

according to IMO instruments

#### Air transport (ICAO-TI / IATA-DGR)

14.1 UN number or ID number Not regulated Not regulated 14.2 Proper Shipping Name 14.3 Transport hazard class(es) Not regulated Not regulated 14.4 Packing group 14.5 Environmental hazards Not applicable

14.6 Special Provisions None

# Section 15: REGULATORY INFORMATION

Ireland - BE Page 13/16

ARC MS-11 ADH & SEAL 290ML CLEAR 12

Supercedes Date: 24-Dec-2021

Revision date 05-Nov-2022 Revision Number 1.01

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

#### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Check whether measures in accordance with Directive 94/33/EC for the protection of young people at work must be taken.

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

### Registration, Evaluation, Authorization, and Restriction of Chemicals (REACh) Regulation (EC 1907/2006)

#### **SVHC: Substances of Very High Concern for Authorisation:**

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

#### EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Chemical name	CAS No	Restricted substance per REACH Annex XVII
Diisononyl phthalate	28553-12-0	52[a].
Dioctyltin oxide	870-08-6	20.

52. Not to be used in toys or childcare articles above 0.1% which can be placed in the mouth by children.

### Substance subject to authorisation per REACH Annex XIV

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

### **Export Notification requirements**

This product contains substances which are regulated pursuant to Regulation (EC) No. 649/2012 of the European parliament and of the council concerning the export and import of dangerous chemicals

	Chemical name	European Export/Import Restrictions per (EC) 689/2008 - Annex Number
ĺ	Dioctyltin oxide	l.1

# Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

### **Persistent Organic Pollutants**

Not applicable

# National regulations

#### 15.2. Chemical safety assessment

Chemical Safety Assessments have been carried out by the Reach registrants for substances registered at >10 tpa. No Chemical Safety Assessment has been carried out for this mixture

# **SECTION 16: Other information**

Ireland - BE Page 14/16

ARC MS-11 ADH & SEAL 290ML CLEAR 12

Supercedes Date: 24-Dec-2021

Revision date 05-Nov-2022 Revision Number 1.01

# Key or legend to abbreviations and acronyms used in the safety data sheet

# Full text of H-Statements referred to under section 3

H226 - Flammable liquid and vapour

H302 - Harmful if swallowed

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H332 - Harmful if inhaled

H335 - May cause respiratory irritation

SVHC: Substances of Very High Concern for Authorisation:

PBT: Persistent, Bioaccumulative, and Toxic (PBT) Chemicals

vPvB: Very Persistent and very Bioaccumulative (vPvB) Chemicals

STOT RE: Specific target organ toxicity - Repeated exposure

STOT SE: Specific target organ toxicity - Single exposure

EWC: European Waste Catalogue

LOW: List of Wastes (see http://ec.europa.eu/environment/waste/framework/list.htm)

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

IATA: International Air Transport Association

ICAO: ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air

IMDG: International Maritime Dangerous Goods

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

# Legend SECTION 8: Exposure controls/personal protection

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

AGW Occupational exposure limit value BGW Biological limit value Ceiling Maximum limit value \* Skin designation

Classification procedure		
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used	
Acute oral toxicity	Calculation method	
Acute dermal toxicity	Calculation method	
Acute inhalation toxicity - gas	Calculation method	
Acute inhalation toxicity - Vapour	Calculation method	
Acute inhalation toxicity - dust/mist	Calculation method	
Skin corrosion/irritation	Calculation method	
Serious eye damage/eye irritation	Calculation method	
Respiratory sensitisation	Calculation method	
Skin sensitisation	On basis of test data	
mutagenicity	Calculation method	
Carcinogenicity	Calculation method	
Reproductive toxicity	Calculation method	
STOT - single exposure	Calculation method	
STOT - repeated exposure	Calculation method	
Acute aquatic toxicity	Calculation method	
Chronic aquatic toxicity	Calculation method	
Aspiration hazard	Calculation method	
Ozone	Calculation method	

# Key literature references and sources for data used to compile the SDS

European Food Safety Authority (EFSA)

European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA\_RAC)

European Chemicals Agency (ECHA) (ECHA\_API)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

NIOSH (National Institute for Occupational Safety and Health)

Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications

Ireland - BE Page 15/16

Revision date 05-Nov-2022

Revision Number 1.01

ARC MS-11 ADH & SEAL 290ML CLEAR 12

Supercedes Date: 24-Dec-2021

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Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme Organisation for Economic Co-operation and Development Screening Information Data Set

Prepared By Product Safety & Regulatory Affairs

Revision date 05-Nov-2022

Training Advice No information available

Further information No information available

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

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet** 

Ireland - BE Page 16/16