

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 5/3/2019 Version: 1.0

1. Product identifie 9. Cytlubrin Ubstance Ubstance 9. Cytlubrin 1PAC name : [CS) sights-cyanot-fluoro-3-phenoxybenzyl(1RS)-cis-trans-3-(2.2-dichlorovinyl)-2.2- dimetrylicyclopropanecarboxylate C-No. : 269-855-7 AS-No. : 68359-37-5 roduct ode : 90028335 orduct ode : For professional use advised against 2.1 Relevant identified uses of the substance or mixture and uses advised against 2.2 Uses advised against 2.3 Details of the supplier of the safety data sheet upplier cafeli Organics cafeli Organics togena behavio ingene viber of the substance or mixture targene viber of the substance or mixture targene viber of the substance or		ostance/mixture and of the company/undertaking			
bistance name : β-O ₁ lubini UPAC name : β-O ₁ lubini-cyano-1-fluoro-Sylate C-No. (RS) alpha-cyano-1-fluoro-Sylate C-No. : 209-865 SA-No. : 209-865 SA-SA-SA-SA-SA-SA-SA-SA-SA-SA-SA-SA-SA-S	1.1. Product identifier				
JPAC name : (RS)-alpha-oyano-4fluoro-3-benovobenzyl(1RS)-is-trans-3:(2,2-dichlorovinyl)-2,2-dichlorovinyl)-2,2-dichlorovinyl)-2,2-dichlorovinyl)-2,2-dichlorovinyl)-2,2-dichlorovinyl)-2,2-dichlorovinyl)-2,2-dichlorovinyl)-2,2-dichlorovinyl)-2,2-dichlorovinyl)-2,2-dichlorovinyl)-2,2-dichlorovinyl)-2,2-dichlorovinyl)-2,2-dichlorovinyl-2,2-dichlorovinyl)-2,2-dichlorovinyl-2,2-dich	Product form	: Substance			
dimethylocidopropanecarboxylate dimethylocidopropanecarboxylate AS-No. : 289-855- : AS-No. : 88359-37-5 toduct code : 90028335 corduct group : Raw material 2. Relevant identified uses of the substance or mixture and uses advised against 2.1. Relevant identified uses of the substance or mixture and uses advised against 2.1. Relevant identified uses of the substance or mixture and uses advised against 2.1. Relevant identified uses of the substance or mixture and uses advised against 2.1. Relevant identified uses of the substance or mixture and uses advised against 2.1. Relevant identified uses of the safety data sheet uppler 2.2. Uses advised against 3. Details of the subspiler of the safety data sheet uppler 4.4 (0) 1949 S3777 +44 (0) 7590 545705 for molekula .com / khowen@molekula.com 4. Emergency telephone number mergency number : +44 (0) 7590 545705 FECTION 2.4 Hazards identification 4. Classification of the substance or mixture tassification according to Regulation (EC) No. 1272/2008 (CLP] cute toxicity (oral). Category 1 H331 acardous to the substance or mixture tassification according to Regulation (EC) No. 1272/2008 (CLP] cute toxicity (oral). Category 1 H331 acardous to the squale environment — Chronic Hazard, Category 1 H410 ull text of H statements : see section 16 dorase physicochemical, human health and environmental offects o additional information available 2. Label elements abelling according to Regulation (EC) No. 1272/2008 (CLP] acard pictograms (CLP) : : : : : : : : : : : : : : : : : : :	Substance name	: β-Cyfluthrin			
As-No. : 68359-37.5 roduct ode : 90028335 roduct group : 202418202FNO3 control group : 202418202	UPAC name				
roduet code : 90028335 crmua : C22H BC/EP NO3 coduet group : Raw materia 2. Relevant identified uses of the substance or mixture and uses advised against 2. Relevant identified uses of the substance or mixture and uses advised against 3. Relevant identified uses idustrialProfessional use spec : i For professional use only 2.2. Uses advised against o additional information available 3. Dotalis of the supplior of the safety data shoet upplier 3. Relevant identified uses 3. Relevant identified use 3. Relevant identified uses 3. Relevant identified use 3. Relevant identified use 	EC-No.	: 269-855-7			
reduct acade : 90023355 armua : C22H18C12FNO3 toduct group : Raw mata i 2. Relevant identified uses of the substance or mixture and uses advised against 2. Alecevant identified uses of the substance or mixture and uses advised against 3. Relevant identified uses i Laboratory use, industrial use, Professional use didustial/Professional use spec : For professional use only 2. Uses advised against 3. Details of the supplier of the safety data sheet 3. Details of the supplier of the safety data sheet 3. Details of the supplier of the safety data sheet 3. Details of the supplier of the safety data sheet 3. Details of the supplier of the safety data sheet 3. Details of the supplier of the safety data sheet 3. Details of the supplier of the safety data sheet 3. Details of the supplier of the safety data sheet 3. Details of the supplier of the safety data sheet 3. Details of the supplier of the safety data sheet 3. Details of the supplier of the safety data sheet 3. Details of the supplier of the safety data sheet 3. Details of the supplier of the safety data sheet 3. Details of the supplier of the safety data sheet 3. Details of the supplier of the safety data sheet 3. Details of the supplier of the safety data sheet 3. Details of the supplier of the safety data sheet 3. Details of the supplier of the safety data sheet 3. Details of the substance or mixture 3. Lease if cation of the substance or mixture 3. Lease if cation of the substance or mixture 3. Detail of the supplier of the safety data (EC) No. 1272/2008 (CLP) 3. Laboled one mute 3. Labole one mute 3. Deage 3. Labole one mute 3. Deage 3. Labole one mute 3. Labole one mute 3. Labole one mute 3. La	AS-No.	: 68359-37-5			
ermala : C22H18C/ZFNO3 roduct group : Rew material 2. Relevant identified uses of the substance or mixture and uses advised against 2. Relevant identified uses Rain use category : Laboratory use, industrial use, Professional use distrial Professional use professional use on y 2. Uses advised against a distrial professional use professional use on y 3. Dotails of the supplier of the safety data shoet upplier cateli Organics lokkula tu mergenery muley 4. Diregenery telephone number regrenery number 4. Energenery telephone number 1. Classification of the substance or mixture telessification according to Regulation (EC) No. 1272/2008 [CLP] cate toxicy (rodi, Category 1 telessification according to Regulation (EC) No. 1272/2008 [CLP] cate toxicy (rodi, Category 1 telessification according to Regulation (EC) No. 1272/2008 [CLP] cate toxicy (rodi, Category 1 telessification according to Regulation (EC) No. 1272/2008 [CLP] cate toxicy (rodi, Category 1 telessification according to Regulation (EC) No. 1272/2008 [CLP] cate toxicy (rodi, Category 1 telessification according to Regulation (EC) No. 1272/2008 [CLP] cate toxicy (rodi, Category 1 telessification according to Regulation (EC) No. 1272/2008 [CLP] cate toxicy (rodinal). Category 3 telessification according to Regulation (EC) No. 1272/2008 [CLP] cate toxicy (rodinal). Gategory 3 telessification according to Regulation (EC) No. 1272/2008 [CLP] cate toxicy (rodinal). Gategory 3 telessification according to Regulation (EC) No. 1272/2008 [CLP] cate toxicy (rodinal). Gategory 3 telessification according to Regulation (EC) No. 1272/2008 [CLP] cate toxicy (rodinal). Gategory 3 telessification according to Regulation (EC) No. 1272/2008 [CLP] cate toxicy (rodinal). Gategory 4 telessification according to Regulation (EC) No. 1272/2008 [CLP] cate toxicy (rodinal). Gategory 4 telessification according to Regulation (EC) No. 1272/2008 [CLP] cate toxicy (rodinal). Gategory 5 cate toxicy (rodinal). Gategory 5 cate toxicy (rodinal). Ga					
reduct group : Raw material 2. Relevant identified uses fail use a degoy : Laboratory use, industrial uso, Professional use idustrial/Professional use spec : For professional use only 2.2. Uses advised against to additional information available 3. Details of the supplier of the safety data sheet upplier cafell Organics lookula Ld mghfed Way arrington - England 44 (0) 1949 823777 / 144 (0) 7590 545705 HCLTON 2: Hazards Identification 4. Emergency number mergency number 4. Emergency folephonen cumber mergency number 4. Emergency folephonen cumber mergency number 4. Emergency folephonen cumber mergency number 4. Emergency folephonen cumber mergency number 5. Statistication according to Regulation (EC) No. 1272/2008 [CLP] cucle toxicity (rnal), Category 1 H331 Bazardous to the supation (EC) No. 1272/2008 [CLP] cucle toxicity (rnal), Category 3 H331 Bazardous to the supation explicits (CLP) at latest of H statements: see section 15 detailed to regulation (EC) No. 1272/2008 [CLP] cucle toxicity (rnal), Category 1 H331 Bazardous to the supationer Basiling according to Regulation (EC) No. 1272/2008 [CLP] cucle toxicity (rnal), Category 1 H331 Bazardous to the supationer Basiling according to Regulation (EC) No. 1272/2008 [CLP] cucle toxicity (rnal), Category 1 H30 cucle toxicity (rnal), Category 1 H30 cucle toxicity (rnal), Category 1 H30 Category 1 H410 Water H statements: see section 15 CH300 GH300 CH300 GH300 CH300 GH300 GH3					
2. Relevant identified uses of the substance or mixture and uses advised against 2.1. Relevant identified uses lain use category : Laboratory use industrial use.Professional use idustrial/Professional use spec : For professional use.Professional use 2.2. Uses advised against : Sortalis of the supplier of the safety data sheet Upplier : Gellel Organics Iolekula Ld : Sortalis of the supplier of the safety data sheet upplier : A Emergency telephone number mergency number : 444 (0) 1498 23777 / 44 (0) 7590 545705 Ind@indekula.com / Kowen@molekula.com - www.molekula.com : A Emergency telephone number mergency number : 444 (0) 7590 545705 FECTION 2: Hazards identification : 1300 .1. Classification of the substance or mixture ::::::::::::::::::::::::::::::::::::					
2.1. Relevant identified uses tain use category is Laboratory use, Industrial use, Professional use industrial Professional use and is is for professional use only category is professional use and is is professional use only category is a solution of the subjet of the safety data sheet upplef category is a solution of the safety data sheet upplef category is a solution of the safety data sheet category is a solution of the safety data sheet category is a solution of the safety data sheet category is a solution of the safety data sheet category is a solution of the safety data sheet category is a solution of the safety data sheet category is a solution of the safety data sheet category is a solution of the substance or mixture category is a solution of the substance or mixture category is a solution of the substance or mixture category is a solution of the substance or mixture category is a solution of the substance or mixture category is a solution of the substance or mixture category is a solution of the substance or mixture category is a solution is a solution is a solution in the substance or mixture category is a solution and information available cate toxicity (inhal.) Category is a solution is a solution is a solution and information available cate toxicity (inhal.) Category is a solution is a solution is a solution and information available category is a solution isolution category isol					
tain use category :: Laboratory use Industrial use,Professional use idustrial/Professional use spec :: For professional use only 2.2. Uses advised against o additional information available 3.3. Details of the supplier of the safety data sheet upplier catel Organics lolekula Ltd ingified Way aringtori - England +44 (0) 1949 823777 / +44 (0) 7590 545705 for@molekula.com / kbowen@molekula.com - www.molekula.com -4. Emergency number :: +44 (0) 7590 545705 FECTION 2: Hazards Identification or the substance or mixture regency number :: +44 (0) 7590 545705 FECTION 2: Hazards Identification or mixture 1.4. Emergency lelephone number mergency number :: +44 (0) 7590 545705 FECTION 2: Hazards Identification or the substance or mixture 1.4. Emergency lelephone number mergency number :: +44 (0) 7590 545705 FECTION 2: Hazards Identification or the substance or mixture 1.4. Emergency lelephone number mergency number :: +44 (0) 7590 545705 FECTION 2: Hazards Identification or the substance or mixture 1.4. Emergency lelephone number mergency number :: +44 (0) 7590 545705 FECTION 2: Hazards Identification C) No. 1272/2008 [CLP] cute toxicity (oral), Category 3 H331 tazardous to the aquatic environment – Chronic Hazard, Category 1 H410 uil text of H statements : see section 16 4. Statements : see section 18 FOR G GIS90 GHS00 GHS00 GHS00 GHS00 fignal word (CLP) :: Gisso GHS00 GLP1 tazard pictograms (CLP) :: Gisso GHS00 fignal word (CLP) :: Gisso GHS00 fignal word (CLP) :: FOR Fali If swallowed. H310 - Forgio Fali If swallowed. H311 - Forgio Fali If swallowed. H313 - Forgio Finhaled. H310 - You for the aquatic life with long lasting effects. recautionary statements (CLP) :: P200 - Do not breathe dusts or mists. P200 - Wear reportatory protection. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. P301+P310 - IF SWALLOWED: Immediately call a POISON CEN		stance or mixture and uses advised against			
dustialProfessional use spec : For professional use only 2.2. Desa dvised against a dditional information available 3. Details of the supplier of the safety data sheet upplier a data or a state of the supplier of the safety data sheet upplier a defail Organis to explicit of the supplier of the safety data sheet upplier a defail Organis to explicit of the supplier of the safety data sheet upplier a defail Organis to explicit of the supplier of the safety data sheet to explicit of the supplier of the safety data sheet a defail Organis to explicit of the supplier of the safety data sheet a defail Organis to explicit of the supplier of the safety data sheet a defail Organis to explicit of the supplier of the safety data sheet a defail Organis to explicit of the supplier of the safety data sheet a defail Organis to explicit of the substance or mixture a defail of the aquation (EC) No. 1272/2008 [CLP] a defail of the aquation environment al effects to additional information available 2. Leb elements a defailing according to Regulation (EC) No. 1272/2008 [CLP] a defail of the aquation environment al effects a defail of the aquation environment al effects a defail of the aquation (EC) No. 1272/2008 [CLP] a defail of the aquation environment al effects a defail of the aquation environment al effects a defail of the aquation (EC) No. 1272/2008 [CLP] a defail of the aquation environment al effects a defail of the aquation (EC) No. 1272/2008 [CLP] a defail of the aquation (EC) No. 1272/2008 [CLP] a defail of the aquation environment al effects a defail of the aduation environment al effects a defa					
2.2. Uses advised against to additional information available 3.3. Details of the supplier of the safety data sheet upplier cafeli Organics tolekula Lid ingfield Way amington - England +44 (0) 1949 823777 +44 (0) 7590 545705 FCCTION 2: Hazards identification .4. Emergency telephone number mergency number : +44 (0) 7590 545705 FECTION 2: Hazards identification .1. Classification according to Regulation (EC) No. 1272/2008 [CLP] cute toxicity (cnial.), Category 1 H300 cute toxicity (cnial.), Category 3 H331 tazardous to the aquatic environment — Chronic Hazard, Category 1 H410 ull text of H statements : see section 16 dverse physicochemical, human health and environmental effects to additional information available 2.1 Label elements azard pictograms (CLP) azard pictograms (CLP) azard pictograms (CLP) Equation (CLP) azard pictograms (CLP) Equation (CLP) azard statements (CLP) P260 - Do not breathed custom information gained effects. recautionary statements (CLP) P260 - Do not breathed using effects. recautionary statements (CLP) P260 - Do not breathed using effects. P280 - Wear protective clothing, egu protection, face protection, protective gloves. P280 - Wear protective clothing, egu a protection, protective gloves. P280 - Wear protective clothing, egu a protection, protective gloves. P280 - Wear protective clothing, egu a policion, face protection, protective gloves. P280 - Wear protective clothing, egu a POISON CENTER or doctor. P301+P310 - IF SWALLOWED : immediately call a POISON CENTER or doctor. P301+P310 - IF SWALLOWED : immediately call a POISON CENTER or doctor.		•			
le additional information available 3. Details of the supplier of the safety data sheet upplier cafel Organics lookula Ldd ingfield Way anington-England 4.44 (0) 7590 545705 4.5 Emgency telephone number mergency number 4.4 (0) 7590 545705 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.	ndustrial/Professional use spec	: For professional use only			
upplier calell Organics lookula Ltd ingried Way ingri	.2.2. Uses advised against lo additional information available				
upplier calell Organics lookula Ltd ingried Way ingri	.3. Details of the supplier of the safety	data sheet			
safel Organics lookula Ltd ingfield Way tarington - England +44 (0) 7590 545705 to@molekula.com / twow.molekula.com A. Emergency telephone number mergency number : +44 (0) 7590 545705 ECTION 2: Hazards identification A. Classification of the substance or mixture Issification according to Regulation (EC) No. 1272/2008 [CLP] cute toxicity (inal). Category 1 H300 cute toxicity (inal.). Category 1 H301 cute toxicity (inal.). Category 3 H331 tazardous to the aquatic environment — Chronic Hazard, Category 1 H410 uil text of H statements : see section 16 doverse physicochemical, human health and environmental effects to additional information available 2. Label elements abelling according to Regulation (EC) No. 1272/2008 [CLP] tazard pictograms (CLP) : Danger tazard pictograms (CLP) : Danger tazard statements (CLP) : Danger tazard statements (CLP) : Page - Page	Supplier				
4. Emergency telephone number mergency number : +44 (0) 7590 545705 SECTION 2: Hazards identification Lassification of the substance or mixture Identification (EC) No. 1272/2008 [CLP] cute toxicity (oral), Category 1 H300 cute toxicity (oral), Category 3 H331 lazardous to the aquatic environment — Chronic Hazard, Category 1 H410 ult text ments : see section 16 deverse physicochemical, human health and environmental effects Ideverse physicochemical, human health and environmental effects <td< td=""><td>Scafell Organics Molekula Ltd Lingfield Way Darlington - England T +44 (0) 1949 823777 / +44 (0) 7590 545705</td><td></td></td<>	Scafell Organics Molekula Ltd Lingfield Way Darlington - England T +44 (0) 1949 823777 / +44 (0) 7590 545705				
mergency number : +44 (0) 7590 545705 ECTION 2: Hazards identification .1. Classification of the substance or mixture Hassification according to Regulation (EC) No. 1272/2008 [CLP] cute toxicity (oral), Category 1 H300 cute toxicity (inhal.), Category 3 H331 lazardous to the aquatic environment — Chronic Hazard, Category 1 H410 ull text of H statements : see section 16 dverse physicochemical, human health and environmental effects o additional information available . .2. Label elements . abeling according to Regulation (EC) No. 1272/2008 [CLP] . ignal word (CLP) : ignal word (CLP) : tercautionary statements (CLP) : P260 - Do not breathed dusts or mists. P260 - Do not breathed dusts or mists. P260 - Do not breathed dusts or mists. P280 - Wear protective coloning, eye protection, face protection, protective gloves. P280 - Wear protective coloning. P280 - Wear protective coloning. P280 - Wear protective coloning. P301-P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. P304-P310 - IF swall-LOWED: Immediately call a POISON CENTER or doctor. P304-P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.<	nfo@molekula.com / kbowen@molekula.com -	www.molekula.com			
I. Classification of the substance or mixture classification according to Regulation (EC) No. 1272/2008 [CLP] cute toxicity (oral), Category 1 H300 cute toxicity (inhal), Category 3 H331 lazardous to the aquatic environment — Chronic Hazard, Category 1 H410 ull text of H statements : see section 16 dverse physicochemical, human health and environmental effects o additional information available	.4. Emergency telephone number Emergency number	: +44 (0) 7590 545705			
adverse physicochemical, human health and environmental effects to additional information available .2. Label elements abelling according to Regulation (EC) No. 1272/2008 [CLP] lazard pictograms (CLP) ignal word (CLP) ignal word (CLP) is based to the elements (CLP) is based to the element elements (CLP) is based to the element eleme	Classification according to Regulation (EC) N Acute toxicity (oral), Category 1 Acute toxicity (inhal.), Category 3 Hazardous to the aquatic environment — Chron	No. 1272/2008 [CLP] H300 H331			
lo additional information available .2. Label elements abelling according to Regulation (EC) No. 1272/2008 [CLP] lazard pictograms (CLP) : GHS06 GHS09 ignal word (CLP) : Danger lazard statements (CLP) : H300 - Fatal if swallowed. H331 - Toxic if inhaled. H410 - Very toxic to aquatic life with long lasting effects. recautionary statements (CLP) : P260 - Do not breathe dusts or mists. P280 - Wear protection. P280 - Wear respiratory protection. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. P308+P311 - IF exposed or concerned: Call a POISON CENTER or doctor.	full text of H statements : see section 16				
abelling according to Regulation (EC) No. 1272/2008 [CLP] lazard pictograms (CLP) 	No additional information available	d environmental effects			
Iazard pictograms (CLP) : isotopic iso					
ignal word (CLP): Dangerlazard statements (CLP): H300 - Fatal if swallowed. H331 - Toxic if inhaled. H410 - Very toxic to aquatic life with long lasting effects.trecautionary statements (CLP): P260 - Do not breathe dusts or mists. P280 - Wear protective clothing, eye protection, face protection, protective gloves. P284 - Wear respiratory protection. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. P308+P311 - IF exposed or concerned: Call a POISON CENTER or doctor.	Labelling according to Regulation (EC) No. 1 Hazard pictograms (CLP)	272/2008 [CLP]			
 Hazard statements (CLP) H300 - Fatal if swallowed. H331 - Toxic if inhaled. H410 - Very toxic to aquatic life with long lasting effects. P260 - Do not breathe dusts or mists. P280 - Wear protective clothing, eye protection, face protection, protective gloves. P284 - Wear respiratory protection. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. P308+P311 - IF exposed or concerned: Call a POISON CENTER or doctor. 					
H331 - Toxic if inhaled. H410 - Very toxic to aquatic life with long lasting effects. P260 - Do not breathe dusts or mists. P280 - Wear protective clothing, eye protection, face protection, protective gloves. P284 - Wear respiratory protection. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. P308+P311 - IF exposed or concerned: Call a POISON CENTER or doctor.		-			
P280 - Wear protective clothing, eye protection, face protection, protective gloves. P284 - Wear respiratory protection. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. P308+P311 - IF exposed or concerned: Call a POISON CENTER or doctor.	lazard statements (CLP)	H331 - Toxic if inhaled.			
.3. Other hazards	Precautionary statements (CLP)	P280 - Wear protective clothing, eye protection, face protection, protective gloves. P284 - Wear respiratory protection. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.			

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 3: Composition/information on ingredients					
3.1. Substances					
Name Product identifier %					
β-Cyfluthrin (CAS-No.) 68359-37-5 100 (EC-No.) 269-855-7					
Full text of H-statements: see section 16					

Full text of H-statements: see section 16

3.2. Mixtures Not applicable

SECTION 4: First aid measures						
4.1. Description of first aid measures						
First-aid measures general	: If possible show this sheet, if not available show packaging or label. Never give anything by mouth to an unconscious person. Do not leave affected person unattended.					
First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Give oxygen or artificial respiration if necessary. If breathing difficulties persist : Get medical advice/attention.					
First-aid measures after skin contact	: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Do not remove clothing if it sticks to the skin. If irritation persists, consult a doctor.					
First-aid measures after eye contact	: Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.					
First-aid measures after ingestion	: Rinse mouth out with water. Do not induce vomiting. Get medical advice/attention.					
4.2. Most important symptoms and effects	s, both acute and delayed					
Symptoms/effects after inhalation	: Toxic if inhaled. May cause irritation to the respiratory tract, sneezing, coughing, burning sensation of throat with constricting sensation of the larynx and difficulty in breathing. Headache. More severe symptoms are also possible.					
Symptoms/effects after skin contact	: May cause skin irritation. May be harmful in contact with skin. Redness, pain. More severe symptoms are also possible.					
Symptoms/effects after eye contact	: May cause severe irritation. redness, itching, tears. Blurred vision. More severe symptoms are also possible.					
Symptoms/effects after ingestion	: Fatal if swallowed. Swallowing a small quantity of this material will result in serious health hazard. Symptoms of ingestion include drowsiness, weakness, headache, dizziness, nausea, vomiting. More severe symptoms are also possible.					

4.3. Indication of any immediate medical attention and special treatment needed Immediately call a POISON CENTER/doctor.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the substa Hazardous decomposition products in case of fire	ance or mixture : Carbon oxides (CO, CO2). Nitrogen oxides. Hydrogen chloride gas. Metal oxides.
5.3. Advice for firefighters	
Precautionary measures fire	: Keep container tightly closed and away from heat, sparks and flame. Keep away from combustible materials.
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
Other information	: Warn all persons of toxic hazard.

SECTION 6: Accidental release measure	S				
6.1. Personal precautions, protective equipm	ent and emergency procedures				
General measures	: Isolate from fire, if possible, without unnecessary risk. Avoid dust formation. No flames, no sparks. Eliminate all sources of ignition.				
6.1.1. For non-emergency personnel					
Protective equipment	: Wear recommended personal protective equipment.				
Emergency procedures	: Evacuate unnecessary personnel. Mark out the contaminated area with signs and prevent access to unauthorized personnel. Do not touch or walk on the spilled product. Avoid contact with skin, eyes and clothing.				
Measures in case of dust release	: Keep upwind. Avoid creating or spreading dust. Ventilate the area thoroughly, especially low lying areas (basements, workpits etc).				

Safety Data Sheet

6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection. Use self-contained breathing apparatus and chemically protective clothing.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
Prevent entry to sewers and public wate	rs. Notify authorities if product enters sewers or public waters.
6.3. Methods and material for cor	Itainment and cleaning up
Methods for cleaning up	: On land, sweep or shovel into suitable containers. Shovel or sweep up and put in a closed container for disposal.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage					
7.1. Precautions for safe handling					
Precautions for safe handling	: Avoid creating or spreading dust. Provide local exhaust or general room ventilation.				
Ŭ					
Hygiene measures	: Take off immediately all contaminated clothing and wash it before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product.				
7.2. Conditions for safe storage, includ	ing any incompatibilities				
Technical measures	: Ensure adequate ventilation, especially in confined areas.				
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Heat sources, Direct sunlight. Keep container closed when not in use.				
Incompatible products	: Strong oxidisers.				
Incompatible materials	: Sources of ignition. Direct sunlight. Heat sources.				
Heat and ignition sources	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.				
Storage area	: Store below 20 °C. Store in a dry place. Store in a closed container.				
7.3. Specific end use(s)					
No additional information available					

No additional information available

SECTION 8: Expos	ure controls/perso	nal protection				
8.1. Control parameter						
No additional information	i available					
8.2. Exposure contro	ls					
Appropriate engineerin	Appropriate engineering controls:					
Handle in accordance with	Handle in accordance with good industrial hygiene and safety procedures.					
Personal protective equipment:						
Avoid all unnecessary exposure.						
Hand protection:						
The protective gloves to be used must comply with the specifications of the regulation 2016/425 and the resultant standard EN 374						
T	Madanial	De mare e di e ce	T his law a set (man)	Demotion	Other she well	

Тур	De	Material	Permeation	Thickness (mm)	Penetration	Standard
Dis	posable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0.11		EN 374

Eye protection:

Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Use eye protection according to EN 166, designed to protect against powders and dusts.

Туре	Use	Characteristics	Standard
Safety goggles, Face shield	Fine dust, Dust	tightly fitting safety goggles, With side shields	EN 166

Skin and body protection:

Emergency safety showers should be available in the immediate vicinity of any potential exposure. Keep suitable chemically resistant protective clothing readily available for emergency use

Туре	Standard
Total impervious protective suits, gloves, and boots must be worn to prevent any contact with the product	EN ISO 13982

Respiratory protection:

Keep self contained breathing apparatus readily available for emergency use. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Device	Filter type	Condition	Standard
Respiratory protective device with a particle filter	Туре РЗ	Dust protection	EN 14387

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical p 9.1. Information on basic physical and c	
Physical state	: Solid
Appearance	: Powder.
Molecular mass	: 434.29 g/mol
Colour	: Off-white. Beige. Pale brown.
Odour	: No data available.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 90 °C
Freezing point	: 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)	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: 5.9
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
9.2. Other information	

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 recommended handling and storage conditions (see section 7).
10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.
10.4. Conditions to avoid
Protect from sunlight. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
10.5. Incompatible materials
Strong oxidizers.
10.6. Hazardous decomposition products
No hazardous decomposition products known at room temperature. Thermal decomposition generates : Carbon oxides (CO, CO2). Hydrogen

chloride gas. Metal oxides. Nitrogen oxides.

SECTION 11: Toxicological information 11.1. Information on toxicological effects	
•	Oral: Fatal if swallowed.
Acute toxicity (dermal) :	Not classified
Acute toxicity (inhalation) :	Inhalation: Toxic if inhaled.
β-Cyfluthrin (68359-37-5)	
LD50 oral rat	900 mg/kg
LD50 dermal rat	> 5000 mg/kg

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

LC50 inhalation rat (mg/l)	530 mg/m³ 4 hr
Skin corrosion/irritation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-single exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-repeated exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information	
12.1. Toxicity	
	Not classified
Chronic aquatic toxicity :	Very toxic to aquatic life with long lasting effects.
β-Cyfluthrin (68359-37-5)	
LC50 fish 1	< 0.001 mg/l Oncorhynchus mykiss (rainbow trout) 96hr
EC50 Daphnia 1	0.17 μg/l Daphnia magna (Water flea) 48hr
12.2. Persistence and degradability	
β-Cyfluthrin (68359-37-5)	
Persistence and degradability	No data available.
12.3. Bioaccumulative potential	
β-Cyfluthrin (68359-37-5)	
Log Pow	5.9
Bioaccumulative potential	No data available.
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessment	
β-Cyfluthrin (68359-37-5)	
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	
Additional information :	Avoid release to the environment.

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment. Hazardous waste due to toxicity.

SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / ADN

β-Cyfluthrin Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number				
2811	2811	2811	2811	2811
14.2. UN proper shippin				
		Tavia calid annania m a a		
TOXIC SOLID, ORGANIC, N.O.S.	TOXIC SOLID, ORGANIC, N.O.S.	Toxic solid, organic, n.o.s.	TOXIC SOLID, ORGANIC, N.O.S.	TOXIC SOLID, ORGANIC, N.O.S.
Transport document descr	iption	I		1
UN 2811 TOXIC SOLID,	UN 2811 TOXIC SOLID,	UN 2811 Toxic solid,	UN 2811 TOXIC SOLID,	UN 2811 TOXIC SOLID,
ORGANIC, N.O.S. (β- Cyfluthrin), 6.1, II, (D/E), ENVIRONMENTALLY HAZARDOUS	ORGANIC, N.O.S. (β- Cyfluthrin), 6.1, II, MARINE POLLUTANT/ENVIRONME NTALLY HAZARDOUS	organic, n.o.s. (β- Cyfluthrin), 6.1, II, ENVIRONMENTALLY HAZARDOUS	ORGANIC, N.O.S. (β- Cyfluthrin), 6.1, II, ENVIRONMENTALLY HAZARDOUS	ORGANIC, N.O.S. (β- Cyfluthrin), 6.1, II, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard o	class(es)		I	
6.1	6.1	6.1	6.1	6.1
			A	
*****	* ¥2	6		6
14.4. Packing group				
II	II	II	II	II
14.5. Environmental haz	ards			
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes
No supplementary informatio	n available	1		
14.6. Special precautions				
Overland transport				
Classification code (ADR)	: T2			
Special provisions (ADR)		4, 614		
Limited quantities (ADR)	: 50	-		
Excepted quantities (ADR)	: E4			
Packing instructions (ADR)		02, IBC08		
Special packing provisions (A	,			
Mixed packing provisions (AD		210		
Portable tank and bulk contain (ADR)	ner instructions : T3			
Portable tank and bulk contain (ADR)	ner special provisions : TP	33		
Tank code (ADR)	: SG	AH, L4BH		
Tank special provisions (ADR		15, TE19		
Vehicle for tank carriage	; AT			
Transport category (ADR)	: 2			
Special provisions for carriage	e - Packages (ADR) : V1	1		
Special provisions for carriage unloading and handling (ADR	e - Loading, : CV	13, CV28		
Special provisions for carriage		, S19		
Hazard identification number				
Orange plates		60 2811		
Tunnel restriction code (ADR)) : D/E			
EAC code	: 2X			
Transport by sea				

Safety Data Sheet

-+ D ulatio (ELI) 2015/830 .

lation.

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

No REACH Annex XVII restrictions β -Cyfluthrin is not on the REACH Candidate List Directive 2012/18/EU (SEVESO III)

15.1.2. National regulations

Germany

Reference to AwSV

: Water hazard class (WGK) 3, Highly hazardous to water (Classification according to AwSV; ID No. 678)

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

5 5 ()	5 (-)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: β-Cyfluthrin is listed
SZW-lijst van mutagene stoffen	: is listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: The substance is not listed
Denmark	
Danish National Regulations	: Young people below the age of 18 years are not allowed to use the product
15.2. Chemical safety assessment	

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

SECTION 16: Other information	on
Data sources :	REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
Other information :	None.
Full text of H- and EUH-statements:	
Acute Tox. 1 (Oral)	Acute toxicity (oral), Category 1
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
H300	Fatal if swallowed.
H331	Toxic if inhaled.
H410	Very toxic to aquatic life with long lasting effects.

SDS EU (REACH Annex II)

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.