

SAFETY DATA SHEET

.1. Product identifier				mpany/undertaking
rade name or designation	X-31-1293-W			
f the mixture				
egistration number	-			
ynonyms	None.			
ales Code	GCNSS0			
ssue date	25-03-2019			
/ersion number	01			
.2. Relevant identified uses of t	the substance o	r mixture and uses a	advised against	
Identified uses	RTV rubbers Masking m			
Uses advised against	Industrial use c	only.		
.3. Details of the supplier of the	e safety data she	eet		
ANUFACTURER				
Company name	Shin-Etsu Cher	mical Co., Ltd.		
CONTACT	Quality Assura	nce Department (Gu	ıma Complex)	
Address	13-1, Isobe 2-c	home, Annaka-shi, G	unma 379-0195, JAPAN	
TELEPHONE NUMBER	+81(0)27-385-2	2172		
FAX NUMBER	+81(0)27-385-2	2753		
SUPPLIER				
Company name	Shin-Etsu Silice	ones Europe B.V.		
CONTACT	Quality Assuar	ance Department		
Address	Bolderweg 32,	1332AV Almere, the	Netherlands	
TELEPHONE NUMBER	+31 (0)36 54 9	3 170		
FAX NUMBER	+31 (0)36 53 2	6 459		
e-mail	sds@shinetsus	silicones.eu		
.4. Emergency telephone	+31 (0)36 54 9	3 170		
	available for of			
	SEC	TION 2: Hazards	identification	
2.1. Classification of the substa				
The mixture has been assess applies.	ed and/or tested	for its physical, health	and environmental haza	rds and the following classification
Classification according to Reg	ulation (EC) No	1272/2008 as amend	ed	
Environmental hazards Hazardous to the aquatic long-term aquatic hazard		Category 2		H411 - Toxic to aquatic life with long lasting effects.
*Hazards not stated here are		'Not applicable" or "C	assification not possible"	• •
lazard summary		osible dust-air mixture	-	for the environment if discharged
-				
2.2. Label elements	EC) No. 1272/20	08 as amended		
2.2. Label elements abel according to Regulation (I Contains:		08 as amended yloxy)phenyl silane ; <i>i</i>	Alkenoxysilane	
2.2. Label elements abel according to Regulation (Contains:			Alkenoxysilane	
2.2. Label elements abel according to Regulation (Alkenoxysilane	
2.2. Label elements abel according to Regulation (Contains:			Alkenoxysilane	

Signal word	None.				
Hazard statements					
H411	Toxic to aquatic li	ife with long lasting ef	fects.		
Precautionary statements					
Prevention					
P273	Avoid release to t	the environment.			
Response					
P391	Collect spillage.				
Storage	Not available.				
Disposal					
P501	Dispose of conter	nts/container in accor	dance with local/regional/n	ational/internationa	l regulations
Supplemental label information	None.				
2.3. Other hazards	May form explosi	/B substance or mixtu ble dust-air mixture if ve following compour	dispersed. This product rea	acts with water , mo	oisture or
S	ECTION 3: Cor	mposition/inform	nation on ingredients	6	
3.2. Mixtures			U		
General information					
Chemical name	%	CAS-No. / EC No.	REACH Registration No	. INDEX No.	Notes
Tris(isopropenyloxy)phenyl sil Alkenoxysilane	ane ; 3 - 10	52301-18-5 411-340-8	-	014-021-00-8	
Classification: Flag	m. Liq. 3;H226, Aqı	uatic Acute 1;H400, A	quatic Chronic 1;H410		
Titanium oxide	1 - 3	13463-67-7 236-675-5	-	-	
Classification: -					
N,N,N',N'-tetramethyl-N''-[3-(tr ysilyl)propyl]guanidine;Orgar	nosilane	69709-01-9 274-092-8	-	-	
Classification: Ski	n Corr. 1B;H314, E	ye Dam. 1;H318			
Decomposition					
Chemical name	%	CAS-No. / EC No.	REACH Registration No	. INDEX No.	Notes
Acetone		67-64-1 200-662-2	-	606-001-00-8	#
List of abbreviations and symbo #: This substance has been as M: M-factor PBT: persistent, bioaccumulat vPvB: very persistent and very All concentrations are in perce	ssigned Union work tive and toxic substa y bioaccumulative s	ed above kplace exposure limit(ance. substance.		percent by volume.	
Composition comments	The full text for al	II H-statements is disp	layed in section 16.		
	SEC.	TION 4: First aid	measures		
General information		cal personnel are awa	are of the material(s) involv	ed, and take preca	utions to
4.1. Description of first aid meas	sures				
Inhalation		. Call a physician if sy	mptoms develop or persist		
Skin contact	Wash skin with se	oap and water. Get m	edical attention if irritation	develops and persis	sts.
Eye contact	develops and per	rsists.	for at least 15 minutes. Ge	t medical attention	if irritation
Ingestion		t medical attention im	-		
4.2. Most important symptoms and effects, both acute and delayed	Direct contact wit	th eyes may cause ter	nporary irritation.		
4.3. Indication of any immediate medical attention and special treatment needed	Treat symptomati	ically.			

and special treatment needed

	SECTION 5: Firefighting measures
E 1. Extinguishing modia	
5.1. Extinguishing media Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	None known.
5.2. Special hazards arising from the substance or mixture	Explosion hazard: Avoid generating dust; fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard. By heating and fire, harmful vapours/gases may be formed.
5.3. Advice for firefighters	
Special protective equipment for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet, gloves, rubber boots, and self-contained breathing apparatus.
Special fire fighting procedures	Move containers from fire area if you can do so without risk. Water runoff can cause environmental damage.
	SECTION 6: Accidental release measures
6.1. Personal precautions, protection	ctive equipment and emergency procedures
For non-emergency personnel	Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Ensure adequate ventilation. Wear appropriate personal protective equipment.
For emergency responders	Use personal protection recommended in Section 8 of the SDS.
6.2. Environmental precautions	Prevent further leakage or spillage if safe to do so. Avoid release to the environment.
6.3. Methods and material for containment and cleaning up	Eliminate sources of ignition.
	Large Spills: Dam the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent entry into waterways, sewer, basements or confined areas.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills in original containers for re-use.
6.4. Reference to other sections	For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.
	SECTION 7: Handling and storage
7.1. Precautions for safe handling	Provide adequate ventilation. Use care in handling/storage. Avoid release to the environment. Do not empty into drains. Do not breathe mist or vapour. Avoid prolonged exposure.
7.2. Conditions for safe storage, including any incompatibilities	Keep container tightly closed. Store in a cool, dry place out of direct sunlight. Store away from incompatible materials (see Section 10 of the SDS). Keep in original container.
7.3. Specific end use(s)	Not available.

SECTION 8: Exposure	controls/	personal	protection
----------------------------	-----------	----------	------------

8.1. Control parameters

Occupational exposure limits

Components	Туре	Value	Form
Titanium oxide (CAS 13463-67-7)	МАК	5 mg/m3	Respirable dust.
	STEL	10 mg/m3	Respirable dust.
Decomposition	Туре	Value	
Acetone (CAS 67-64-1)	MAK	1200 mg/m3	
		500 ppm	
	STEL	4800 mg/m3	
		2000 ppm	

_

Belgium. Exposure Limit Values Components	Туре	Value	
itanium oxide (CAS 3463-67-7)	TWA	10 mg/m3	
Decomposition	Туре	Value	
Acetone (CAS 67-64-1)	STEL	2420 mg/m3	
		1000 ppm	
	TWA	1210 mg/m3	
		500 ppm	
Bulgaria. OELs. Regulation No 1			
components	Туре	Value	Form
ītanium oxide (CAS 3463-67-7)	TWA	10 mg/m3	Respirable dust.
Decomposition	Туре	Value	
Acetone (CAS 67-64-1)	STEL	1400 mg/m3	
	TWA	600 mg/m3	
Croatia. Dangerous Substance E Components	Exposure Limit Values in the Wo Type	orkplace (ELVs), Annexes 1 ar Value	nd 2, Narodne Novine, 13/0 Form
Fitanium oxide (CAS 3463-67-7)	STEL	4 mg/m3	Respirable dust.
· · · · · ·		10 mg/m3	Total dust.
Decomposition	Туре	Value	
Acetone (CAS 67-64-1)	MAC	1210 mg/m3	
		500 ppm	
	STEL	3620 mg/m3	
		1500 ppm	
Cyprus. OELs. Control of factory	atmosphere and dangerous su	ubstances in factories regulat	ion, PI 311/73, as amended
Components	Туре	Value	
itanium oxide (CAS 3463-67-7)	TWA	10 mg/m3	
Zech Republic. OELs. Governm	nent Decree 361		
Components	Туре	Value	Form
itanium oxide (CAS 3463-67-7)	TWA	5 mg/m3	Dust.
Decomposition	Туре	Value	
Acetone (CAS 67-64-1)	Ceiling	1500 mg/m3	
	TWA	800 mg/m3	
Denmark. Exposure Limit Values	5	-	
Components	Туре	Value	
itanium oxide (CAS 3463-67-7)	TLV	6 mg/m3	
Decomposition	Туре	Value	
Acetone (CAS 67-64-1)	TLV	600 mg/m3	
		000 mg/m0	

Components	Туре	Value	
Titanium oxide (CAS 13463-67-7)	TWA	5 mg/m3	
Decomposition	Туре	Value	
Acetone (CAS 67-64-1)	TWA	1210 mg/m3	
		500 ppm	

Finland. Workplace Exposure Limi Components	Туре	Value	Form
Titanium oxide (CAS 13463-67-7)	TWA	10 mg/m3	Dust.
Decomposition	Туре	Value	
Acetone (CAS 67-64-1)	STEL	1500 mg/m3	
		630 ppm	
	TWA	1200 mg/m3	
		500 ppm	
France. Threshold Limit Values (VI	EP) for Occupational Exposu	ire to Chemicals in France, IN	IRS ED 984
Components	Туре	Value	
Titanium oxide (CAS 13463-67-7)	VME	10 mg/m3	
Decomposition	Туре	Value	
Acetone (CAS 67-64-1)	VLE	2420 mg/m3	
		1000 ppm	
	VME	1210 mg/m3	
		500 ppm	
Germany. DFG MAK List (advisory	OFLS) Commission for the l		s of Chemical Compour
n the Work Area (DFG)			
Components	Туре	Value	Form
Titanium oxide (CAS 13463-67-7)	TWA	4 mg/m3	Inhalable dust.
,		0,3 mg/m3	Respirable dust.
Decomposition	Туре	Value	
Acetone (CAS 67-64-1)	TWA	1200 mg/m3	
		500 ppm	
Germany. TRGS 900, Limit Values	in the Ambient Air of the Wer		
Components	Type	Value	Form
-	-		
Titanium oxide (CAS 13463-67-7)	AGW	10 mg/m3	Inhalable fraction.
10-100 01 1)		1,25 mg/m3	Respirable fraction.
Decomposition	Туре	Value	
-	-		
Acetone (CAS 67-64-1)	AGW	1200 mg/m3	
		500 ppm	
Greece. OELs (Decree No. 90/1999)		\/_L	Form
Components	Туре	Value	Form
Titanium oxide (CAS	TWA	5 mg/m3	Respirable.
13463-67-7)		10 ma/m2	Inhalable
Decomposition	Tuna	10 mg/m3 Value	IIIIaiable
Decomposition	Туре		
Acetone (CAS 67-64-1)	STEL	3560 mg/m3	
	TWA	1780 mg/m3	
Hungary. OELs. Joint Decree on C	hemical Safety of Workplaces	i	
Components	Туре	Value	Form
Titanium oxide (CAS	TWA	6 mg/m3	Respirable dust.
		-	
13463-67-7)		10 mg/m3	Total inhalable dust.
13463-67-7)	T	Value	
	Туре		
13463-67-7) Decomposition Acetone (CAS 67-64-1)		2420 ma/m3	
Decomposition	STEL TWA	2420 mg/m3 1210 mg/m3	
Decomposition Acetone (CAS 67-64-1)	STEL TWA	1210 mg/m3	
Decomposition Acetone (CAS 67-64-1) Iceland. OELs. Regulation 154/1999	STEL TWA 9 on occupational exposure li	1210 mg/m3	
	STEL TWA	1210 mg/m3 mits	

_

celand. OELs. Regulation 154/199 Decomposition	9 on occupational exposure limits Type	Value	
-			
Acetone (CAS 67-64-1)	TWA	600 mg/m3	
		250 ppm	
reland. Occupational Exposure Li		Value	Form
Components	Туре		-
Titanium oxide (CAS	TWA	4 mg/m3	Respirable dust.
13463-67-7)		10 mg/m3	Total inhalable dust.
Decomposition	Туре	Value	
Acetone (CAS 67-64-1)	TWA	1210 mg/m3	
(CAS 07-04-1)	IWA	500 ppm	
taly. Occupational Exposure Limi	ts	ooo ppin	
Components	Туре	Value	
-			
Γitanium oxide (CAS I3463-67-7)	TWA	10 mg/m3	
Decomposition	Туре	Value	
Acetone (CAS 67-64-1)	TWA	1210 mg/m3	
	IWA	500 ppm	
atvia OEL & Occupational experi	ure limit values of chemical substa	••	nt
Latvia. OELS. Occupational expos	ure limit values of chemical substa	nces in work environme Value	ant (
·	-		
Fitanium oxide (CAS 13463-67-7)	TWA	10 mg/m3	
Decomposition	Туре	Value	
Acetone (CAS 67-64-1)	TWA	1210 mg/m3	
(CAS 07-04-1)	IWA	500 ppm	
ithuania OELa Limit Valuas for	Chemical Substances, General Rec		
Components	Type	Value	
-			
Fitanium oxide (CAS 13463-67-7)	TWA	5 mg/m3	
Decomposition	Туре	Value	
Acetone (CAS 67-64-1)	STEL	2420 mg/m3	
(CAS 07-04-1)	STEE	1000 ppm	
	TWA	1210 mg/m3	
		500 ppm	
uxembourg, Binding Occupation	al exposure limit values (Annex I), I	••	
	Type	Value	
	-		
Decomposition	TWA	1210 ma/m3	
Decomposition	TWA	1210 mg/m3 500 ppm	
Decomposition Acetone (CAS 67-64-1)		500 ppm	ty Authority Act (CAP 42
Decomposition Acetone (CAS 67-64-1) Malta. OELs. Occupational Expose	TWA ure Limit Values (L.N. 227. of Occup	500 ppm	ty Authority Act (CAP. 42
Decomposition Acetone (CAS 67-64-1) Malta. OELs. Occupational Expose Schedules I and V)		500 ppm	ty Authority Act (CAP. 42
Decomposition Acetone (CAS 67-64-1) Malta. OELs. Occupational Expose Schedules I and V) Decomposition	ure Limit Values (L.N. 227. of Occup Type	500 ppm pational Health and Safe Value	ty Authority Act (CAP. 42
Decomposition Acetone (CAS 67-64-1) Malta. OELs. Occupational Expose Schedules I and V) Decomposition	ure Limit Values (L.N. 227. of Occup	500 ppm pational Health and Safe	ty Authority Act (CAP. 42
Decomposition Acetone (CAS 67-64-1) Malta. OELs. Occupational Expose Schedules I and V) Decomposition Acetone (CAS 67-64-1)	ure Limit Values (L.N. 227. of Occup Type	500 ppm pational Health and Safe Value 1210 mg/m3	ty Authority Act (CAP. 42
Decomposition Acetone (CAS 67-64-1) Malta. OELs. Occupational Expose Schedules I and V) Decomposition Acetone (CAS 67-64-1) Netherlands. OELs (binding)	ure Limit Values (L.N. 227. of Occup Type TWA	500 ppm pational Health and Safe Value 1210 mg/m3	ty Authority Act (CAP. 42
Decomposition Acetone (CAS 67-64-1) Malta. OELs. Occupational Expose Schedules I and V) Decomposition Acetone (CAS 67-64-1) Netherlands. OELs (binding) Decomposition	ure Limit Values (L.N. 227. of Occup Type TWA Type	500 ppm pational Health and Safe Value 1210 mg/m3 500 ppm Value	ty Authority Act (CAP. 42
Decomposition Acetone (CAS 67-64-1) Malta. OELs. Occupational Expose Schedules I and V) Decomposition Acetone (CAS 67-64-1) Netherlands. OELs (binding) Decomposition	ure Limit Values (L.N. 227. of Occup Type TWA Type STEL	500 ppm pational Health and Safe Value 1210 mg/m3 500 ppm Value 2420 mg/m3	ty Authority Act (CAP. 42
Decomposition Acetone (CAS 67-64-1) Malta. OELs. Occupational Expose Schedules I and V) Decomposition Acetone (CAS 67-64-1) Netherlands. OELs (binding) Decomposition Acetone (CAS 67-64-1)	ure Limit Values (L.N. 227. of Occup Type TWA Type STEL TWA	500 ppm pational Health and Safe Value 1210 mg/m3 500 ppm Value	ty Authority Act (CAP. 42
Decomposition Acetone (CAS 67-64-1) Malta. OELs. Occupational Expose Schedules I and V) Decomposition Acetone (CAS 67-64-1) Netherlands. OELs (binding) Decomposition Acetone (CAS 67-64-1) Norway. Administrative Norms for	ure Limit Values (L.N. 227. of Occup Type TWA Type STEL TWA Contaminants in the Workplace	500 ppm pational Health and Safe Value 1210 mg/m3 500 ppm Value 2420 mg/m3 1210 mg/m3	ty Authority Act (CAP. 42
Decomposition Acetone (CAS 67-64-1) Malta. OELs. Occupational Expose Schedules I and V) Decomposition Acetone (CAS 67-64-1) Netherlands. OELs (binding) Decomposition Acetone (CAS 67-64-1) Norway. Administrative Norms for Components	ure Limit Values (L.N. 227. of Occup Type TWA STEL TWA Contaminants in the Workplace Type	500 ppm pational Health and Safe Value 1210 mg/m3 500 ppm Value 2420 mg/m3 1210 mg/m3 1210 mg/m3	ty Authority Act (CAP. 42
Decomposition Acetone (CAS 67-64-1) Malta. OELs. Occupational Expose Schedules I and V) Decomposition Acetone (CAS 67-64-1) Netherlands. OELs (binding) Decomposition Acetone (CAS 67-64-1) Norway. Administrative Norms for Components Titanium oxide (CAS	ure Limit Values (L.N. 227. of Occup Type TWA Type STEL TWA Contaminants in the Workplace	500 ppm pational Health and Safe Value 1210 mg/m3 500 ppm Value 2420 mg/m3 1210 mg/m3	ty Authority Act (CAP. 42
Decomposition Acetone (CAS 67-64-1) Malta. OELs. Occupational Expose Schedules I and V) Decomposition Acetone (CAS 67-64-1) Netherlands. OELs (binding) Decomposition Acetone (CAS 67-64-1) Norway. Administrative Norms for Components Titanium oxide (CAS 13463-67-7)	Type Type TWA TWA STEL TWA Contaminants in the Workplace Type TLV	500 ppm pational Health and Safe Value 1210 mg/m3 500 ppm Value 2420 mg/m3 1210 mg/m3 Value 5 mg/m3	ty Authority Act (CAP. 42
Decomposition Acetone (CAS 67-64-1) Malta. OELs. Occupational Expose Schedules I and V) Decomposition Acetone (CAS 67-64-1) Netherlands. OELs (binding) Decomposition Acetone (CAS 67-64-1) Norway. Administrative Norms for Components Titanium oxide (CAS 13463-67-7) Decomposition	ure Limit Values (L.N. 227. of Occup Type TWA STEL TWA Contaminants in the Workplace Type TLV Type	500 ppm pational Health and Safe Value 1210 mg/m3 500 ppm Value 2420 mg/m3 1210 mg/m3 Value 5 mg/m3 Value	ty Authority Act (CAP. 42
Decomposition Acetone (CAS 67-64-1)	Type Type TWA TWA STEL TWA Contaminants in the Workplace Type TLV	500 ppm pational Health and Safe Value 1210 mg/m3 500 ppm Value 2420 mg/m3 1210 mg/m3 Value 5 mg/m3	ty Authority Act (CAP. 42

Decomposition	Туре	Value	
		125 ppm	
Poland. MACs. Regulation regar environment, Annex 1	ding maximum permissible cor	ncentrations and intensities of	f harmful factors in the wo
Components	Туре	Value	Form
itanium oxide (CAS 3463-67-7)	STEL	30 mg/m3	
Decomposition	TWA Type	10 mg/m3 Value	Inhalable fraction.
cetone (CAS 67-64-1)	STEL TWA	1800 mg/m3 600 mg/m3	
Portugal. OELs. Decree-Law n. 2	90/2001 (Journal of the Republ	ic - 1 Series A, n.266)	
Decomposition	Туре	Value	
Acetone (CAS 67-64-1)	TWA	1210 mg/m3 500 ppm	
Portugal. VLEs. Norm on occup Components	ational exposure to chemical ag Type	gents (NP 1796) Value	
itanium oxide (CAS 3463-67-7)	TWA	10 mg/m3	
Decomposition	Туре	Value	
Acetone (CAS 67-64-1)	STEL TWA	750 ppm	
Romania. OELs. Protection of w	orkers from exposure to chemi		
Components	Type STEL	Value 15 mg/m3	
3463-67-7)	-	C C	
Decomposition	TWA Type	10 mg/m3 Value	
Acetone (CAS 67-64-1)	TWA	1210 mg/m3 500 ppm	
Slovakia. OELs. Regulation No.	300/2007 concerning protectior		cal agents
Components	Туре	Value	-
itanium oxide (CAS 3463-67-7)	TWA	5 mg/m3	
Decomposition	Туре	Value	
Acetone (CAS 67-64-1)	TWA	1210 mg/m3 500 ppm	
Slovenia. OELs. Regulations co Official Gazette of the Republic		against risks due to exposure	e to chemicals while worki
Decomposition	Туре	Value	
Acetone (CAS 67-64-1)	TWA	1210 mg/m3 500 ppm	
Spain. Occupational Exposure L	imits	pp	
Components	Туре	Value	
itanium oxide (CAS 3463-67-7)	TWA	10 mg/m3	
Decomposition	Туре	Value	
Acetone (CAS 67-64-1)	TWA	1210 mg/m3 500 ppm	
Sweden. OELs. Work Environme	ent Authority (AV), Occupationa		6 2015:7)
Components	Туре	Value	Form
Fitanium oxide (CAS	TWA	5 mg/m3	Total dust.

Sweden. OELs. Work En Decomposition	Vironment Authority (A Typ		Exposure Limit V Val		2013.7)
Acetone (CAS 67-64-1)	STE	iL		00 mg/m3) ppm	
	TW	Δ) mg/m3	
	1 • • •	7) ppm	
Switzerland. SUVA Gren	zworto am Arboitenlatz		200	, pp	
Components	Typ		Val	ue	Form
-				a/m2	Doopirable duat
Titanium oxide (CAS 13463-67-7)	TW.			ig/m3	Respirable dust.
Decomposition	Тур		Val		
Acetone (CAS 67-64-1)	STE	E		0 mg/m3	
	TW	•		0 ppm	
	1 VV/	4		0 mg/m3) ppm	
			500	ppin	
UK. EH40 Workplace Ex Components	posure Limits (WELs) Typ	٥	Val		Form
-			-		-
Titanium oxide (CAS 13463-67-7)	TW	4		ıg/m3	Respirable.
				mg/m3	Inhalable
Decomposition	Тур	e	Val	ue	
Acetone (CAS 67-64-1)	STE	E	362	20 mg/m3	
				0 ppm	
	TW	4		0 mg/m3	
			500) ppm	
			500	, ppm	
EU. Indicative Exposure	Limit Values in Directi	ves 91/322/EEC, 20		••	161/EU
	Limit Values in Directi Typ			15/EC, 2009/1	161/EU
Decomposition	Тур	e	000/39/EC, 2006/ Val	15/EC, 2009/1 ue	161/EU
Decomposition		e	000/39/EC, 2006/ Val	15/EC, 2009/1 ue 0 mg/m3	161/EU
Decomposition Acetone (CAS 67-64-1)	Тур	e	000/39/EC, 2006/ Val	15/EC, 2009/1 ue	161/EU
Decomposition Acetone (CAS 67-64-1) ogical limit values	Тур ТW/	e ላ	000/39/EC, 2006/ Val 121 500	15/EC, 2009/1 ue 0 mg/m3 0 ppm	
Decomposition Acetone (CAS 67-64-1) ogical limit values Croatia. BLV. Dangerous	Typ TW/ Substance Exposure	e A Limit Values at Wo	000/39/EC, 2006/ Val 121 500 prkplace, Annexe	15/EC, 2009/ ue 0 mg/m3 0 ppm es 4 (as amer	nded)
Decomposition Acetone (CAS 67-64-1) ogical limit values Croatia. BLV. Dangerous Decomposition	Typ TW/ S Substance Exposure Value	e A Limit Values at Wo Determinant	000/39/EC, 2006/ Val 121 500 prkplace, Annexe Specimen	15/EC, 2009/ ue 0 mg/m3 0 ppm es 4 (as amer Sampling t	nded)
Decomposition Acetone (CAS 67-64-1) ogical limit values Croatia. BLV. Dangerous Decomposition	Typ TW/ Substance Exposure	e A Limit Values at Wo	000/39/EC, 2006/ Val 121 500 orkplace, Annexe Specimen Creatinine in	15/EC, 2009/ ue 0 mg/m3 0 ppm es 4 (as amer	nded)
Decomposition Acetone (CAS 67-64-1) ogical limit values Croatia. BLV. Dangerous Decomposition	Typ TW/ S Substance Exposure Value 20 mg/g	e A Limit Values at Wo Determinant Acetone	000/39/EC, 2006/ Val 121 500 Drkplace, Annexe Specimen Creatinine in urine	15/EC, 2009/ ue 0 mg/m3 0 ppm es 4 (as amer Sampling t	nded)
Decomposition Acetone (CAS 67-64-1) ogical limit values Croatia. BLV. Dangerous Decomposition	Typ TW/ S Substance Exposure Value 20 mg/g 20 mg/l	e A Limit Values at Wo Determinant Acetone Acetone	000/39/EC, 2006/ Val 121 500 Drkplace, Annexe Specimen Creatinine in urine Blood	15/EC, 2009/ ue 0 mg/m3 0 ppm es 4 (as amer Sampling t	nded)
Decomposition Acetone (CAS 67-64-1) ogical limit values Croatia. BLV. Dangerous Decomposition	Typ TW/ s Substance Exposure Value 20 mg/g 20 mg/l 0,34 mmol/l	e A Limit Values at Wo Determinant Acetone Acetone Acetone	000/39/EC, 2006/ Val 121 500 Orkplace, Annexe Specimen Creatinine in urine Blood Blood	15/EC, 2009/ ue 0 mg/m3 0 ppm es 4 (as amer Sampling t	nded)
EU. Indicative Exposure Decomposition Acetone (CAS 67-64-1) ogical limit values Croatia. BLV. Dangerous Decomposition Acetone (CAS 67-64-1)	Typ TW/ S Substance Exposure Value 20 mg/g 20 mg/l	e A Limit Values at Wo Determinant Acetone Acetone	000/39/EC, 2006/ Val 121 500 Drkplace, Annexe Specimen Creatinine in urine Blood	15/EC, 2009/ ue 0 mg/m3 0 ppm es 4 (as amer Sampling t	nded)
Decomposition Acetone (CAS 67-64-1) ogical limit values Croatia. BLV. Dangerous Decomposition Acetone (CAS 67-64-1)	Typ TW/ 5 Substance Exposure Value 20 mg/g 20 mg/l 0,34 mmol/l 38,95 mmol/mol	e A Limit Values at Wo Determinant Acetone Acetone Acetone Acetone Acetone	000/39/EC, 2006/ Val 121 500 orkplace, Annexe Specimen Creatinine in urine Blood Blood Creatinine in	15/EC, 2009/ ue 0 mg/m3 0 ppm es 4 (as amer Sampling t	nded)
Decomposition Acetone (CAS 67-64-1) ogical limit values Croatia. BLV. Dangerous Decomposition Acetone (CAS 67-64-1)	Typ TW/ s Substance Exposure Value 20 mg/g 20 mg/l 0,34 mmol/l 38,95 mmol/mol ease see the source doo	e A Limit Values at Wo Determinant Acetone Acetone Acetone Acetone acetone	000/39/EC, 2006/ Val 121 500 Orkplace, Annexe Specimen Creatinine in urine Blood Blood Creatinine in urine	15/EC, 2009/1 ue 0 mg/m3 0 ppm es 4 (as amer Sampling t	nded) ime
Decomposition Acetone (CAS 67-64-1) ogical limit values Croatia. BLV. Dangerous Decomposition Acetone (CAS 67-64-1) * - For sampling details, pl France. Biological indica	Typ TW/ s Substance Exposure Value 20 mg/g 20 mg/l 0,34 mmol/l 38,95 mmol/mol ease see the source doo	e A Limit Values at Wo Determinant Acetone Acetone Acetone Acetone acetone	000/39/EC, 2006/ Val 121 500 Orkplace, Annexe Specimen Creatinine in urine Blood Blood Creatinine in urine	15/EC, 2009/1 ue 0 mg/m3 0 ppm es 4 (as amer Sampling t	nded) ime NRS, ND 2065)
Decomposition Acetone (CAS 67-64-1) ogical limit values Croatia. BLV. Dangerous Decomposition Acetone (CAS 67-64-1) * - For sampling details, pl France. Biological indica Decomposition	Typ TW/ s Substance Exposure Value 20 mg/g 20 mg/l 0,34 mmol/l 38,95 mmol/mol ease see the source doo ators of exposure (IBE) Value	e A Limit Values at Wo Determinant Acetone Acetone Acetone Acetone cument. (National Institute Determinant	000/39/EC, 2006/ Val 121 500 Orkplace, Annexe Specimen Creatinine in urine Blood Blood Creatinine in urine e for Research ar Specimen	15/EC, 2009/1 ue 0 mg/m3 0 ppm es 4 (as amer Sampling t * * *	nded) ime NRS, ND 2065)
Decomposition Acetone (CAS 67-64-1) ogical limit values Croatia. BLV. Dangerous Decomposition Acetone (CAS 67-64-1) * - For sampling details, pl France. Biological indica Decomposition Acetone (CAS 67-64-1)	Typ TW/ S Substance Exposure Value 20 mg/g 20 mg/l 0,34 mmol/l 38,95 mmol/mol ease see the source doo ators of exposure (IBE) Value 100 mg/l	e A Limit Values at Wo Determinant Acetone Acetone Acetone Acetone Cument. (National Institute Determinant Acétone	000/39/EC, 2006/ Val 121 500 Orkplace, Annexe Specimen Creatinine in urine Blood Blood Creatinine in urine e for Research ar	15/EC, 2009/1 ue 0 mg/m3 0 ppm es 4 (as amer Sampling t * * *	nded) ime NRS, ND 2065)
Decomposition Acetone (CAS 67-64-1) ogical limit values Croatia. BLV. Dangerous Decomposition Acetone (CAS 67-64-1) * - For sampling details, pl France. Biological indica Decomposition Acetone (CAS 67-64-1) * - For sampling details, pl	Typ TW/ S Substance Exposure Value 20 mg/g 20 mg/l 0,34 mmol/l 38,95 mmol/mol ease see the source doo ators of exposure (IBE) Value 100 mg/l ease see the source doo	e A Limit Values at Wo Determinant Acetone Acetone Acetone Acetone cument. (National Institute Determinant Acétone cument.	000/39/EC, 2006/ Val 121 500 Orkplace, Annexe Specimen Creatinine in urine Blood Blood Creatinine in urine e for Research ar Specimen	15/EC, 2009/1 ue 0 mg/m3 0 ppm es 4 (as amer Sampling t * * *	nded) ime NRS, ND 2065)
Decomposition Acetone (CAS 67-64-1) ogical limit values Croatia. BLV. Dangerous Decomposition Acetone (CAS 67-64-1) * - For sampling details, pl France. Biological indica Decomposition Acetone (CAS 67-64-1) * - For sampling details, pl Germany. TRGS 903, BA	Typ TW/ S Substance Exposure Value 20 mg/g 20 mg/l 0,34 mmol/l 38,95 mmol/mol ease see the source doo ators of exposure (IBE) Value 100 mg/l ease see the source doo	e A Limit Values at Wo Determinant Acetone Acetone Acetone Acetone cument. (National Institute Determinant Acétone cument.	000/39/EC, 2006/ Val 121 500 Orkplace, Annexe Specimen Creatinine in urine Blood Blood Creatinine in urine e for Research ar Specimen	15/EC, 2009/1 ue 0 mg/m3 0 ppm es 4 (as amer Sampling t * * *	nded) ime NRS, ND 2065) ime
Decomposition Acetone (CAS 67-64-1) ogical limit values Croatia. BLV. Dangerous Decomposition Acetone (CAS 67-64-1) * - For sampling details, pl France. Biological indica Decomposition Acetone (CAS 67-64-1)	Typ TW/ s Substance Exposure Value 20 mg/g 20 mg/l 0,34 mmol/l 38,95 mmol/mol ease see the source doo ators of exposure (IBE) Value 100 mg/l ease see the source doo T List (Biological Limit	e A Limit Values at Wo Determinant Acetone Acetone Acetone Acetone cument. (National Institute Determinant Acétone cument. (National Institute Determinant	000/39/EC, 2006/ Val 121 500 Orkplace, Annexe Specimen Creatinine in urine Blood Blood Creatinine in urine e for Research ar Specimen Urine	15/EC, 2009/1 ue 0 mg/m3 0 ppm es 4 (as amer Sampling t * * *	nded) ime NRS, ND 2065) ime
Decomposition Acetone (CAS 67-64-1) ogical limit values Croatia. BLV. Dangerous Decomposition Acetone (CAS 67-64-1) * - For sampling details, pl France. Biological indica Decomposition Acetone (CAS 67-64-1) * - For sampling details, pl Germany. TRGS 903, BA Decomposition Acetone (CAS 67-64-1)	Typ TW/ S Substance Exposure Value 20 mg/g 20 mg/l 0,34 mmol/l 38,95 mmol/mol ease see the source doo ators of exposure (IBE) Value 100 mg/l ease see the source doo T List (Biological Limit Value 80 mg/l	e A Limit Values at Wo Determinant Acetone Acetone Acetone Acetone Acetone Cument. (National Institute Determinant Acétone Cument. t Values) Determinant Aceton	000/39/EC, 2006/ Val 121 500 orkplace, Annexe Specimen Creatinine in urine Blood Blood Creatinine in urine e for Research ar Specimen Urine Specimen	15/EC, 2009/1 ue 0 mg/m3 0 ppm es 4 (as amer Sampling t * * *	nded) ime NRS, ND 2065) ime
Decomposition Acetone (CAS 67-64-1) ogical limit values Croatia. BLV. Dangerous Decomposition Acetone (CAS 67-64-1) * - For sampling details, pl France. Biological indica Decomposition Acetone (CAS 67-64-1) * - For sampling details, pl Germany. TRGS 903, BA Decomposition Acetone (CAS 67-64-1) * - For sampling details, pl Slovakia. BLVs (Biological)	Typ TW/ S Substance Exposure Value 20 mg/g 20 mg/l 0,34 mmol/l 38,95 mmol/mol ease see the source doo ators of exposure (IBE) Value 100 mg/l ease see the source doo T List (Biological Limit Value 80 mg/l ease see the source doo	e A Limit Values at Wo Determinant Acetone Acetone Acetone Acetone Acetone Cument. (National Institute Determinant Acétone cument. t Values) Determinant Aceton cument.	000/39/EC, 2006/ Val 121 500 Orkplace, Annexe Specimen Creatinine in urine Blood Blood Creatinine in urine e for Research ar Specimen Urine Specimen Urine	15/EC, 2009// ue 0 mg/m3 0 ppm es 4 (as amer Sampling t * * * * * *	nded) ime NRS, ND 2065) ime
Decomposition Acetone (CAS 67-64-1) ogical limit values Croatia. BLV. Dangerous Decomposition Acetone (CAS 67-64-1) * - For sampling details, pl France. Biological indica Decomposition Acetone (CAS 67-64-1) * - For sampling details, pl Germany. TRGS 903, BA Decomposition Acetone (CAS 67-64-1) * - For sampling details, pl Slovakia. BLVs (Biologica agents, Annex 2	Typ TW/ S Substance Exposure Value 20 mg/g 20 mg/l 0,34 mmol/l 38,95 mmol/mol ease see the source doo ators of exposure (IBE) Value 100 mg/l ease see the source doo T List (Biological Limit Value 80 mg/l ease see the source doo	e A Limit Values at Wo Determinant Acetone Acetone Acetone Acetone Acetone Cument. (National Institute Determinant Acétone cument. t Values) Determinant Aceton cument.	000/39/EC, 2006/ Val 121 500 Orkplace, Annexe Specimen Creatinine in urine Blood Blood Creatinine in urine e for Research ar Specimen Urine Specimen Urine	15/EC, 2009// ue 0 mg/m3 0 ppm es 4 (as amer Sampling t * * * * * *	nded) ime NRS, ND 2065) ime ime
Decomposition Acetone (CAS 67-64-1) ogical limit values Croatia. BLV. Dangerous Decomposition Acetone (CAS 67-64-1) * - For sampling details, pl France. Biological indica Decomposition Acetone (CAS 67-64-1) * - For sampling details, pl Germany. TRGS 903, BA Decomposition Acetone (CAS 67-64-1) * - For sampling details, pl Germany. TRGS 903, BA Decomposition Acetone (CAS 67-64-1) * - For sampling details, pl	Typ TW/ S Substance Exposure Value 20 mg/g 20 mg/l 0,34 mmol/l 38,95 mmol/mol ease see the source doo stors of exposure (IBE) Value 100 mg/l ease see the source doo T List (Biological Limit Value 80 mg/l ease see the source doo cal Limit Value). Regula	e A Limit Values at Wo Determinant Acetone Acetone Acetone Acetone Acetone Acetone Cument. (National Institute Determinant Acétone cument. t Values) Determinant Aceton cument. t Values) Aceton cument. t Values) Determinant Aceton	ooo/39/EC, 2006/ Val 121 500 orkplace, Annexe Specimen Creatinine in urine Blood Creatinine in urine e for Research ar Specimen Urine Urine Urine	15/EC, 2009// ue 0 mg/m3 0 ppm es 4 (as amer Sampling t * * * * * * * * * * * * * * * * * * *	nded) ime NRS, ND 2065) ime ime

* - For sampling details, please see the source document.

Decomposition	Value	ational Exposure Li Determinant	Specimen	Sampling time
Acetone (CAS 67-64-1)	50 mg/l	Acetona	Urine	*
* - For sampling details, ple	ease see the source do	ocument.		
Switzerland. BAT-Werte (Decomposition	(Biological Limit Valu Value	es in the Workplace Determinant	e as per SUVA) Specimen	Sampling time
Acetone (CAS 67-64-1)	80 mg/l	Aceton	Urine	*
* - For sampling details, ple	ease see the source do	ocument.		
Recommended monitoring procedures	Not available.			
Derived no effect levels DNELs)	Not available.			
Predicted no effect concentrations (PNECs)	Not available.			
.2. Exposure controls				
ontrols		entilation such as loo		Provide eyewash station. hanical and/or door open for at least 24
ndividual protection measure	es, such as personal	protective equipme	ent	
General information		on equipment should the supplier of the per-		rding to the CEN standards and in equipment.
Eye/face protection	Tightly sealed sat	fety glasses accordin	g to EN 166.	
Skin protection				
- Hand protection	Wear protective g	loves.		
- Other	Wear suitable pro	tective clothing.		
Respiratory protection	Respiratory prote	ction must be worn v	henever the WE	L levels have been exceeded.
Thermal hazards	Wear appropriate	thermal protective c	lothing, when ne	cessary.
lygiene measures		re breaks and imme giene and safety pra		lling the product. Handle in accordance with
invironmental exposure		l prevent releases ar informed of all majo		nal regulations on emissions. Environmenta

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	
Physical state	Solid.
Form	Paste.
Colour	White.
Odour	Acetone odor
Odour threshold	Not available.
рН	Not measurable (Refer to water solubility)
Melting point/freezing point	No data
Initial boiling point and boiling range	Not applicable.
Flash point	18 °C (64,4 °F) Closed cup (Does not sustain combustion)
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	2,1 % v/v [Acetone]
Flammability limit - upper (%)	13,0 % v/v [Acetone]
Vapour pressure	Negligible (25 °C)
Vapour density	Not applicable
Relative density	1,03 (23°C)

Not solublo	
No data	
Not available.	
Not applicable.	
Not available.	
Not available.	
Not applicable.	
SECTION 10: Stability	and reactivity
No hazardous reaction known under	normal conditions of use, storage and transport.
Stable at normal conditions.	
Hazardous polymerisation does not o	ccur.
None known.	
Strong oxidising agents. Water, moist	ture.
	ure or humid air to evolve following compounds:
Thermal breakdown of this product du hazardous decomposition product:	uring fire or very high heat condition may evolve the following etely burned carbon compounds. Silicon dioxide.
SECTION 11: Toxicologi	cal information
	nce or mixture may cause adverse effects.
exposure	
No adverse effects due to inhalation a	are expected.
No adverse effects due to skin contact are expected.	
Direct contact with eyes may cause temporary irritation.	
Species	Test results
•	
Bat	3,67 ml/kg
	o,or ming
, AINGHUNYSHAHE (UAS 52501-10-3)	
Bat	> 5000 mg/kg
Bat	0,31 mg/l, 28 days
	Test results
000000	
Rat	50,1 mg/l, 8 Hours
	,
	Not available. Not applicable. Not available. Not available. Not available. Not applicable. SECTION 10: Stability No hazardous reaction known under Stable at normal conditions. Hazardous polymerisation does not of None known. Strong oxidising agents. Water, moist This product reacts with water, moist Acetone. Thermal breakdown of this product do hazardous decomposition product: Carbon oxides and traces of incomple Formaldehyde . SECTION 11: Toxicologi Occupational exposure to the substant exposure No adverse effects due to inhalation at No adverse effects due to skin contact

Decomposition	Species	Test results
Oral		
LD50	Mouse	3000 mg/kg
	Rabbit	5340 mg/kg
	Rat	5800 mg/kg
Skin corrosion/irritation	SKIN-RABBIT : MILD(P.I.I=0 Causes visible necrosis of the	.2) [Alkenoxysilane] e skin tissue (Rabbit/60 Minutes) [Organosilane]
Serious eye damage/eye irritation	EYE-RABBIT :Minimal irritant [Alkenoxysilane] Causes serious eye damage. [Organosilane] Causes serious eye irritation. [Acetone]	
Respiratory sensitisation	Not available.	
Skin sensitisation	No skin sensitizing(guinea pigs) [Alkenoxysilane] [tris(isopropenyloxy)phenyl silane]	
Germ cell mutagenicity	Negative(Bacteria) Negative(silane]	Chromosome analysis) [Alkenoxysilane] [tris(isopropenyloxy)phenyl
N,N,N',N'-tetramethyl-N"- anidine ; Organosilane	-[3-(trimethoxysilyl)propyl]gu	OECD 471 Result: Negative with and without metabolic activation. Species: Micro-organisms
Carcinogenicity	The following material is embedded in the product and not available as respirable dusts. When used as intended or as supplied, the product will not pose hazards of the following material. Titanium oxide.	
IARC Monographs. Overall	Evaluation of Carcinogenicity	,
Titanium oxide (CAS 134	63-67-7)	2B Possibly carcinogenic to humans.
Reproductive toxicity	Not available.	
Specific target organ toxicity - single exposure	May cause damage to the fol Narcotic effects. [Acetone]	lowing organs.
Specific target organ toxicity - repeated exposure	Not available.	
Aspiration hazard	Not available.	
Mixture versus substance information	Not available.	
Other information	This product reacts with wate Acetone	r, moisture or humid air to evolve following compounds:

		ECTION 12: Ecological information	
12.1. Toxicity	,	to aquatic life. Very toxic to aquatic life with silane] [tris(isopropenyloxy)phenyl silane]	long lasting effects.
Components		Species	Test results
N,N,N',N'-tetramethyl-N"-[3	B-(trimethoxysilyl)pro	opyl]guanidine ; Organosilane (CAS 69709-0	1-9)
Aquatic			
Acute			
Algae	EC50	Pseudokirchneriella subcapitata	> 133 mg/l, 72 hours
	NOEC	Pseudokirchneriella subcapitata	> 133 mg/l, 72 hours
Crustacea	EC50	Daphnia	> 122 mg/l, 48 hours
Titanium oxide (CAS 1346	3-67-7)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	> 1000 mg/l, 48 hours
Fish	LC50	Mummichog (Fundulus heteroclitus)	> 1000 mg/l, 96 hours
Tris(isopropenyloxy)phenyl	l silane ; Alkenoxys	ilane (CAS 52301-18-5)	
Aquatic			
Crustacea	LC50	Daphnia	12,7 mg/l, 48 hr
Fish	LC50	Carp	18 mg/l, 96 hr

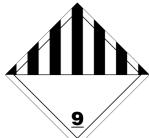
EC50	Water flea (Da	phnia magna)	10294 - 17704 mg/l, 48 hours
LC50	Fathead minno	w (Pimephales promelas)	> 100 mg/l, 96 hours
No data availa	ble.		
		36 % OECD 301F, Not re Species: Activated sludg Test Duration: 28 days	
Not available.			
Not available.			
Not available.			
No data availa	ble.		
Not available.			
Not available.			
SECT	ON 13: Disp	osal considerations	
product residu	es. This materia	I and its container must be	e disposed of in a safe manner (see: Loca
Since emptied containers may retain product residue, follow label warnings even after container i emptied.			
The Waste code should be assigned in discussion between the user, the producer and the waste disposal company. Waste codes should be assigned by the user based on the application for which the product was used.			
Not hardening substance : Incinerate. Incinerator should be appropriately equipped for silica and other fine powder which the product will generate in incineration. Workers should wear appropriate personal protective equipment(s) such as respirator. Hardening substance : Bury or incinerate. Incinerator should be appropriately equipped for silica and other fine powder which the product will generate in incineration. Workers should wear appropriate personal protective equipment(s) such as respirator. Contract with a disposal operator licensed by the Law on Disposal and Cleaning. Do not allow thi material to drain into sewers/water supplies. Dispose of contents/container in accordance with local/regional/national/international regulations.			
	LC50 No data availa erobic biodegra [3-(trimethoxysil] Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Dispose of in a product residu disposal regula Since emptied emptied. The Waste coor disposal comp which the proc Not hardening other fine pow appropriate per Hardening sub and other fine popriate per Contract with a	LC50 Fathead minno No data available. erobic biodegradation-ready) {3-(trimethoxysilyI)propyI]guanid Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Dispose of in accordance with product residues. This materia disposal regulations). Avoid dis Since emptied containers may emptied. The Waste code should be ass disposal company. Waste code which the product was used. Not hardening substance : Inc other fine powder which the p appropriate personal protective Hardening substance : Bury or and other fine powder which the p	LC50 Fathead minnow (Pimephales promelas) No data available. erobic biodegradation-ready) [3-(trimethoxysilyI)propyI]guanid 36 % OECD 301F, Not re Species: Activated sludg Test Duration: 28 days Not available. Not available. Not available. Not available. Not available. Not available. Not available. Dispose of in accordance with local regulations. Empty c product residues. This material and its container must be disposal regulations). Avoid discharge into water courses Since emptied containers may retain product residue, fol emptied. The Waste code should be assigned in discussion betwee disposal company. Waste codes should be assigned by the which the product was used. Not hardening substance : Incinerate. Incinerator should other fine powder which the product will generate in incin appropriate personal protective equipment(s) such as re Hardening substance : Bury or incinerate. Incinerator should other fine powder which the product will generate in incin appropriate personal protective equipment(s) such as re Hardening substance : Bury or incinerate. Incinerator should other fine powder which the product will generate in incin appropriate personal protective equipment(s) such as re Hardening substance : Bury or incinerate. Incinerator should other fine powder which the product will generate in incin appropriate personal protective equipment(s) such as re

SECTION 14: Transport information

ADR	
14.1. UN number	UN3077
14.2. UN proper shipping name	Environmentally hazardous substance, solid, n.o.s. (Tris(isopropenyloxy)phenyl silane ; Alkenoxysilane)
14.3. Transport hazard class	(es)
Class	9
Subsidiary risk	-
Label(s)	9
Hazard No. (ADR)	90
Tunnel restriction code	E
14.4. Packing group	III
14.5. Environmental hazards	a Yes
14.6. Special precautions	Read safety instructions, SDS and emergency procedures before handling.
for user	
RID	
14.1. UN number 14.2. UN proper shipping name	UN3077 Environmentally hazardous substance, solid, n.o.s. (Tris(isopropenyloxy)phenyl silane ; Alkenoxysilane)

14.3. Transport hazard class	(es)
Class	9
Subsidiary risk	-
Label(s)	9
14.4. Packing group	
14.5. Environmental hazards	Yes
14.6. Special precautions	Read safety instructions, SDS and emergency procedures before handling.
for user	
ADN	
14.1. UN number	UN3077
14.2. UN proper shipping	Environmentally Hazardous Solid, N.o.s. (Tris(isopropenyloxy)phenyl silane ; Alkenoxysilane)
name	
14.3. Transport hazard class	(es)
Class	9
Subsidiary risk	-
Label(s)	9
14.4. Packing group	
14.5. Environmental hazards	No.
14.6. Special precautions	Read safety instructions, SDS and emergency procedures before handling.
for user	
ΙΑΤΑ	
14.1. UN number	UN3077
14.2. UN proper shipping	Environmentally hazardous substance, solid, n.o.s. (Tris(isopropenyloxy)phenyl silane ;
name	Alkenoxysilane)
14.3. Transport hazard class	(es)
Class	9
Subsidiary risk	-
14.4. Packing group	
14.5. Environmental hazards	
ERG Code	9L
14.6. Special precautions	Read safety instructions, SDS and emergency procedures before handling.
for user	
Other information	
Passenger and cargo	Allowed with restrictions.
aircraft	
Cargo aircraft only	Allowed with restrictions.
IMDG	1100077
14.1. UN number	
14.2. UN proper shipping	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Tris(isopropenyloxy)phenyl silane ; Alkenoxysilane)
name 14.3. Transport hazard class	
-	9
Class Subsidiary risk	9
Subsidiary risk 14.4. Packing group	
14.4. Facking group 14.5. Environmental hazards	
	Vaa
Marine pollutant	Yes F-A, S-F
EmS 14.6. Special precautions	Read safety instructions, SDS and emergency procedures before handling.
for user	read salety manuations, and and emergency procedures before nanuling.
14.7. Transport in bulk	This product is not intended to be transported in bulk.
according to Annex II of Marpol	
and the IBC Code	

ADN; ADR; IATA; IMDG; RID



Marine pollutant



General information

IMDG Regulated Marine Pollutant. Sealed packets and articles containing less than 10 ml of an environmentally hazardous liquid, or containing less than 10 g of an environmentally hazardous solid are not regulated as dangerous goods.

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended Not listed.

- Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended Not listed.
- Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended Not listed.
- Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended Not listed.
- Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended Not listed.
- Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.
- Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended Not listed.
- Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Tris(isopropenyloxy)phenyl silane ; Alkenoxysilane (CAS 52301-18-5)

Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

National regulations	Follow national regulation for work with chemical agents.
15.2. Chemical safety assessment	No Chemical Safety Assessment has been carried out.
	SECTION 16: Other information
List of abbreviations	Not available.
References	Not available.
Information on evaluation method leading to the classification of mixture	The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.
Full text of any H-statements not written out in full under Sections 2 to 15	H226 Flammable liquid and vapour. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.
Revision information	Product and Company Identification: Product and Company Identification Composition / Information on Ingredients: Potential Compounds Formed Physical & Chemical Properties: Multiple Properties Toxicological Information: Toxicological Data Ecological Information: Ecotoxicity Transport Information: Material Transportation Information Regulatory Information: Regulatory Information HazReg Data: Pacific Rim GHS: Classification
Training information	Follow training instructions when handling this material.
Disclaimer	This information is offered in good faith as typical values and not as a product specification. No warranty, expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate. This product has been designed, manufactured and developed solely for general industrial use only. This product is not designed for, intended for use as, or suitable for, medical, surgical or other particular purposes. Users have the sole responsibility and obligation to determine the suitability of this product for any application, to make preliminary tests, and to confirm the safety of this product for their use. Users must never use this product for the purpose of implantation into the human body and/or injection into humans.