according to Regulation (EC) No. 1907/2006

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SECTI	SECTION 1: Identification of the substance/mixture and of the company/undertaking					
1.1 Pro	duct identifier					
Tra	ade name	: 2C-Filling-	System AFS			
Pro	oduct code	: D 506KD	1A4			
1.2 Rel	evant identified uses of t	he substance o	or mixture and uses advised against			
	e of the Sub- ince/Mixture	: Filler, Foa	ms			
1.3 Det	ails of the supplier of the	safety data sh	leet			
Co	mpany	YEOMAN	en Group UK S DRIVE, BLAKELANDS Igdom, MK14 5AN MILTON KEYNES			
Те	lephone	: + 49 (0) 53	361/9-49179			
	mail address of person sponsible for the SDS	: MSDS@v	olkswagen.de			
1.4 Em	ergency telephone numb	er				
24	H SERVICE: +49/ 5361/ 9-	23222				
SECTI	ON 2: Hazards identific	cation				
2.1 Cla	ssification of the substar	nce or mixture				
Cla	Classification (REGULATION (EC) No 1272/2008)					
Ae	rosols, Category 1		H222: Extremely flammable aerosol. H229: Pressurised container: May burst if heated.			
Ac	ute toxicity, Category 4		H302: Harmful if swallowed.			
Ac	ute toxicity, Category 4		H332: Harmful if inhaled.			

- Skin irritation, Category 2 H315: Causes skin irritation.
- Eye irritation, Category 2 H319: Causes serious eye irritation.

H334: May cause allergy or asthma symptoms or

H317: May cause an allergic skin reaction.

H351: Suspected of causing cancer.

H335: May cause respiratory irritation.

breathing difficulties if inhaled.

Respiratory sensitisation, Category 1

Skin sensitisation, Category 1

Н

Carcinogenicity, Category 2

Specific target organ toxicity - single exposure, Category 3

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	c target organ toxicity Category 3	- single ex-	H336: May cause drowsiness or dizziness.
	c target organ toxicity re, Category 2	- repeated	H373: May cause damage to organs through pro- longed or repeated exposure.
.2 Label el	ements		
Labelli	ng (REGULATION (E	EC) No 1272/20	008)
Hazard	pictograms		
Signal v	word	: Danger	
Hazard	statements	H229 P H302 + H H315 C H317 M H319 C H334 M difficulties H335 M H336 M H351 S	extremely flammable aerosol. ressurised container: May burst if heated. 332 Harmful if swallowed or if inhaled. auses skin irritation. ay cause an allergic skin reaction. auses serious eye irritation. ay cause allergy or asthma symptoms or breathing if inhaled. ay cause respiratory irritation. ay cause drowsiness or dizziness. uspected of causing cancer. ay cause damage to organs through prolonged or exposure.
Precaut	tionary statements	flames an P211 D P251 D P260 D P280 W	on: eep away from heat, hot surfaces, sparks, open d other ignition sources. No smoking. o not spray on an open flame or other ignition source. o not pierce or burn, even after use. o not breathe spray. /ear protective gloves/ protective clothing/ eye protec- protection.
		Respons P308 + P3 attention.	
		Storage: P410 + P4 peratures	412 Protect from sunlight. Do not expose to tem- exceeding 50 °C/ 122 °F.

Diphenylmethane diisocyanate, isomers and homologues Tris(2-chloro-1-methylethyl) phosphate Ethylene glycol according to Regulation (EC) No. 1907/2006

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Isobutane

Additional Labelling

The following percentage of the mixture consists of ingredient(s) with unknown acute oral toxicity: 19.9999 %

The following percentage of the mixture consists of ingredient(s) with unknown acute dermal toxicity: 19.9999%

The following percentage of the mixture consists of ingredient(s) with unknown acute inhalation toxicity: 19.9999 %

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 19.9999 %

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Excessive exposure may aggravate preexisting asthma and other respiratory disorders (e.g. emphysema, bronchitis, reactive airways dysfunction syndrome).

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No.	Classification	Concentration (% w/w)
	Index-No.		(/0 11/11)
	Registration number		
Diphenylmethane diisocyanate, isomers and homologues	9016-87-9	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 Carc. 2; H351 STOT SE 3; H335 STOT RE 2; H373 (Respiratory Tract)	>= 20 - < 30
Tris(2-chloro-1-methylethyl) phos- phate	13674-84-5 237-158-7 01-2119486772-26	Acute Tox. 4; H302	>= 20 - < 30
Ethylene glycol	107-21-1 203-473-3 603-027-00-1 01-2119456816-28	Acute Tox. 4; H302 STOT RE 2; H373 (Kidney)	>= 1 - < 10
Isobutane	75-28-5 200-857-2 601-004-00-0 01-2119485395-27	Flam. Gas 1A; H220 Press. Gas Liquefied gas; H280 STOT SE 3; H336	>= 1 - < 10
Dimethyl ether	115-10-6 204-065-8 603-019-00-8 01-2119472128-37	Flam. Gas 1A; H220 Press. Gas Liquefied gas; H280 STOT SE 3; H336	>= 1 - < 10
Propane	74-98-6 200-827-9	Flam. Gas 1A; H220 Press. Gas Liquefied	>= 1 - < 10

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For explonation			gas; H280 STOT SE 3; H336	

SECTION 4: First aid measures

4.1 Description of first aid measures					
General advice	 In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice. 				
Protection of first-aiders	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).				
If inhaled :	 If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. 				
In case of skin contact	 In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse. 				
In case of eye contact	 In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention. 				
If swallowed	 If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. 				
4.2 Most important symptoms and	effects, both acute and delayed				
Risks	Harmful if swallowed or if inhaled. Causes skin irritation.				

RISKS	
	Causes skin irritation.
	May cause an allergic skin reaction.
	Causes serious eye irritation.
	May cause allergy or asthma symptoms or breathing difficul- ties if inhaled.
	May cause respiratory irritation.
	May cause drowsiness or dizziness.
	Suspected of causing cancer.
	May cause damage to organs through prolonged or repeated
	exposure.

Respiratory symptoms, including pulmonary edema, may be

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		other resp	e exposure may aggravate preexisting asthma and biratory disorders (e.g. emphysema, bronchitis, reac- ys dysfunction syndrome).
4.3 Indica	ition of any immediate i	nedical atten	tion and special treatment needed
Treat	ment	: Treat syn	nptomatically and supportively.
SECTIO	N 5: Firefighting meas	sures	
5.1 Exting	guishing media		
Suita	ble extinguishing media	Carbon d Dry chem	esistant foam ioxide (CO2) ical ray in large fire situations
Unsu medi	itable extinguishing a	: High volu	me water jet
5.2 Speci	al hazards arising from	the substand	e or mixture
Spec fightin	ific hazards during fire- ng	Vapours Exposure If the tem	ck possible over considerable distance. may form explosive mixtures with air. to combustion products may be a hazard to health. perature rises there is danger of the vessels bursting high vapor pressure.
Haza ucts	rdous combustion prod-	Nitrogen Isocyana Hydroger Oxides of	oxides (NOx)
5.3 Advic	e for firefighters		
	ial protective equipment efighters		ent of fire, wear self-contained breathing apparatus. onal protective equipment.
Spec ods	ific extinguishing meth-	cumstand Use wate	guishing measures that are appropriate to local cir- es and the surrounding environment. r spray to cool unopened containers. undamaged containers from fire area if it is safe to do area.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
 - Personal precautions : Remove all sources of ignition.

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		Follow safe han	otective equipment. dling advice (see section 7) and personal pro- nt recommendations (see section 8).
6.2 Enviro	nmental precautions		
Enviro	nmental precautions	Prevent further I Prevent spreadi barriers). Retain and disp	the environment. eakage or spillage if safe to do so. ng over a wide area (e.g. by containment or oil ose of contaminated wash water. s should be advised if significant spillages ined.
6.3 Method	ds and material for co	ntainment and clear	ning up
Metho	ds for cleaning up	Soak up with ine Suppress (knock spray jet. For large spills, ment to keep ma be pumped, stor Clean up remain bent. After approxima do not seal, due Local or nationa posal of this ma employed in the mine which regu	ols should be used. ert absorbent material. k down) gases/vapours/mists with a water provide dyking or other appropriate contain- aterial from spreading. If dyked material can re recovered material in appropriate container. hing materials from spill with suitable absor- tely one hour, transfer to waste container and to evolution of carbon dioxide. I regulations may apply to releases and dis- terial, as well as those materials and items cleanup of releases. You will need to deter- ulations are applicable. I 5 of this SDS provide information regarding hational requirements.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling	
Technical measures :	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation :	If sufficient ventilation is unavailable, use with local exhaust ventilation. If advised by assessment of the local exposure potential, use only in an area equipped with explosion-proof exhaust ventila- tion.
Advice on safe handling :	Do not get on skin or clothing. Do not breathe spray. Do not swallow. Do not get in eyes.

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		Handle in ac practice, bas sessment Keep contair Protect from Already sens regarding wo Keep away f other ignition Take precau Do not eat, o Take care to environment	itised individuals should consult their physician orking with respiratory irritants or sensitisers. rom heat, hot surfaces, sparks, open flames and a sources. No smoking. tionary measures against static discharges. Irink or smoke when using this product. prevent spills, waste and minimize release to the
Hygie	ene measures	flushing system place. When work clothing	o chemical is likely during typical use, provide eye ems and safety showers close to the working using do not eat, drink or smoke. Contaminated should not be allowed out of the workplace. ninated clothing before re-use.
7.2 Condi	tions for safe storage,	including any in	compatibilities
•	irements for storage and containers	ventilated pla tional regula	up. Protect from moisture. Keep in a cool, well- ace. Store in accordance with the particular na- tions. Do not pierce or burn, even after use. Keep from sunlight.
Advid	ce on common storage	Self-reactive Organic perc Oxidizing ag Flammable s Pyrophoric li Pyrophoric s Self-heating	ents solids quids olids substances and mixtures and mixtures, which in contact with water, emit
Reco perat	mmended storage tem- ure	: 15 - 25 °C	
7.3 Speci	fic end use(s)		
-	ific use(s)	: No data avai	lable

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

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	Compo	onents	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
	diisocy	ylmethane anate, iso-	9016-87-9	TWA	0.02 mg/m3 (NCO)	GB EH40

mers and homo-				
logues				
	known as asth cific airway hy anism. Once t the substance symptoms. Th asthma. Not a responsive an become hyper should be dist asthma in peo not include the as asthmagen the HSE publi agents implica cable, exposu prevented. Wh standards of c substances th sure be reduc short-term pea management employees ex occupational a of WELs has h pational asthm that other sub	imagens and respira per-responsiveness he airways have bee sometimes even in nese symptoms can r ill workers who are e d it is impossible to in r-responsive. Subst inguished from subst ple with pre-existing e disease themselve is or respiratory sense cation Asthmagen? Cated in occupational re to substances that here this is not possi control to prevent wo at can cause occupated to as low as is real ak concentrations sh is being considered. posed or liable to be asthma and there sho health professional o le of causing occupated been assigned only the astances not in these a web pages (www.health astances and there a web pages (www.health astances and there a web pages (www.health astances and there a web pages (www.health astances a	hat can cause occupational a tory sensitisers) can induce a via an immunological irritant come hyper-responsive, furth tiny quantities, may cause re- range in severity from a runny xposed to a sensitiser will be dentify in advance those who ances that can cause occupa- tances which may trigger the airway hyper-responsivenes s. The latter substances are sitisers. Further information c Critical assessments of the e asthma., Wherever it is reaso t can cause occupational ast ble, the primary aim is to app rkers from becoming hyper-re- ational asthma, COSHH requ asonably practicable. Activitie ould receive particular attenti Health surveillance is approp exposed to a substance whi ould be appropriate consultation ver the degree of risk and level ational asthma., The 'Sen' not o those substances which ma- shown in Table 1. It should be tables may cause occupation se.gov.uk/asthma) provide fur-	a state of spe- or other mech- er exposure to espiratory y nose to come hyper- o are likely to ational asthma symptoms of as, but which do not classified an be found in vidence for onably practi- hma should be oly adequate esponsive. For ires that expo- es giving rise to ion when risk oriate for all ch may cause tion with an vel of surveil- tation in the list ay cause occu- e remembered nal asthma. Inther infor-
		STEL	0.07 mg/m3 (NCO)	GB EH40
	known as asth cific airway hy anism. Once t the substance symptoms. Th asthma. Not a responsive an	magens and respira per-responsiveness he airways have bec , sometimes even in lese symptoms can r Il workers who are e d it is impossible to i	hat can cause occupational a tory sensitisers) can induce a via an immunological irritant come hyper-responsive, furth tiny quantities, may cause re- range in severity from a runny xposed to a sensitiser will be dentify in advance those who ances that can cause occupa	a state of spe- or other mech- er exposure to espiratory y nose to come hyper- o are likely to

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		prevented. V standards of substances sure be redu short-term p managemen employees e occupationa occupationa lance., Capa of WELs has pational asth that other su HSE's asthm	Where this is not pose control to prevent we that can cause occur used to as low as is eak concentrations at is being considere exposed or liable to a sthma and there se health professional able of causing occur s been assigned only ma in the categorie ubstances not in these	hat can cause occupationsible, the primary aim is vorkers from becoming here pational asthma, COSH reasonably practicable. A should receive particular d. Health surveillance is be exposed to a substan- should be appropriate co lover the degree of risk pational asthma., The 'S y to those substances will s shown in Table 1. It shows the tables may cause occ .hse.gov.uk/asthma) pro-	to apply adequate hyper-responsive. F H requires that exp Activities giving rise attention when rise appropriate for all nee which may cause onsultation with an and level of surveil- isen' notation in the l hich may cause occurrent ould be remember cupational asthma.		
Ethyle	ne glycol	mation. 107-21-1	TWA	20 ppm	2000/39/EC		
Earlyie	ne giyeei	107 21 1		52 mg/m3	2000/00/20		
		Further infor skin, Indicat		tion: Identifies the possibility of significant uptake through the			
			STEL	40 ppm	2000/39/EC		
			104 mg/m3				
		Further information: Identifies the possibility of significant uptake through the skin, Indicative					
			TWA (Vapour)	20 ppm	GB EH40		
				52 mg/m3			
		Further information: Can be absorbed through the skin. The assigned sub- stances are those for which there are concerns that dermal absorption will lead to systemic toxicity.					
			TWA (particles)	10 mg/m3	GB EH40		
		Further information: Can be absorbed through the skin. The assigned sub- stances are those for which there are concerns that dermal absorption will lead to systemic toxicity.					
			STEL (Vapour)	40 ppm 104 mg/m3	GB EH40		
			those for which ther	orbed through the skin. ⁻ e are concerns that derr			
Dimeth	nyl ether	115-10-6	TWA	1,000 ppm 1,920 mg/m3	2000/39/EC		
		Further infor	mation: Indicative	·	· · · · · · · · · · · · · · · · · · ·		
			TWA	400 ppm 766 mg/m3	GB EH40		
			STEL	500 ppm 958 mg/m3	GB EH40		

Occupational exposure limits of decomposition products

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis	
Formaldehyde	50-00-0	TWA	2 ppm 2.5 mg/m3	GB EH40	
	Further information: Capable of causing cancer and/or heritable genetic dam-				

according to Regulation (EC) No. 1907/2006

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		age.				
			STEL	2 ppm 2.5 mg/m3	GB EH40	
		Further inform age.	ation: Capabl	e of causing cancer and/o	or heritable genetic dam	
			STEL	0.6 ppm 0.74 mg/m3	2004/37/EC	
		Further inform	ation: Derma	sensitisation, Carcinoger	ns or mutagens	
			TWA	0.3 ppm 0.37 mg/m3	2004/37/EC	
		Further inform	ation: Derma	on: Dermal sensitisation, Carcinogens or mutagens		
Metha	anol	67-56-1	TWA	200 ppm 260 mg/m3	2006/15/EC	
		Further information: Indicative, Identifies the possibility of significant uptake through the skin				
			TWA	200 ppm 266 mg/m3	GB EH40	
			ose for which	absorbed through the ski there are concerns that d		
			STEL	250 ppm 333 mg/m3	GB EH40	
Further information: Can be absorbed through the skin. The as stances are those for which there are concerns that dermal ab lead to systemic toxicity.						

Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
Diphenylmethane diiso- cyanate, isomers and homologues	9016-87-9	isocyanate-derived diamine (Isocya- nates): 1 µmol/mol creatinine (Urine)	At the end of the period of exposure	GB EH40 BAT

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Ethylene glycol	Workers	Inhalation	Long-term local ef- fects	35 mg/m3
	Workers	Skin contact	Long-term systemic effects	106 mg/kg bw/day
	Consumers	Inhalation	Long-term local ef- fects	7 mg/m3
	Consumers	Skin contact	Long-term systemic effects	53 mg/kg bw/day
Dimethyl ether	Workers	Inhalation	Long-term systemic effects	1894 mg/m3
	Consumers	Inhalation	Long-term systemic effects	471 mg/m3
Tris(2-chloro-1- methylethyl) phos- phate	Workers	Inhalation	Long-term systemic effects	5.82 mg/m3
	Workers	Inhalation	Acute systemic ef-	5.82 mg/m3

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1		1					1	
		M/ entre ne			fects		0.00	
		Workers		Skin contact	Long-term syster effects	nic	2.08 mg/kg bw/day	
		Workers		Skin contact	Acute systemic e	f_	2.08 mg/kg	
		VUIKEIS		Skin contact	fects	-1-	bw/day	
		Consume	rs	Inhalation	Long-term syster effects	nic	1.46 mg/m	
		Consume	rs	Inhalation	Acute systemic e fects	ef-	1.46 mg/m	
		Consume	rs	Skin contact	Long-term syster effects	nic	1.04 mg/kg bw/day	
		Consume	rs	Skin contact	Acute systemic e fects		1.04 mg/kg bw/day	
		Consume	_	Ingestion	Long-term syster effects		0.52 mg/kg bw/day	
		Consume	rs	Ingestion	Acute systemic e fects	ef-	0.52 mg/kg bw/day	
Predi	cted No Effect Co	oncentratio	on (PN	EC) according t	o Regulation (EC) N	lo. 19	07/2006:	
Subst	ance name		Envir	onmental Compa	artment	Va	alue	
Ethyle	ene glycol		Fresh	n water		10) mg/l	
			Marine water			1	1 mg/l	
			Intermittent use/release			10 mg/l		
			Sewage treatment plant			19	99.5 mg/l	
			Fresh water sediment			37	7 mg/kg	
			Marine sediment			3.	7 mg/kg	
			Soil				53 mg/kg	
Dimet	thyl ether		Fresh water Marine water Intermittent use/release				155 mg/l	
							016 mg/l	
							549 mg/l	
			Sewage treatment plant				60 mg/l	
			Fresh water sediment				681 mg/kg c	
							weight (d.w.)	
			Marine sediment				069 mg/kg c	
			Soil				eight (d.w.) 045 mg/kg c	
			301				eight (d.w.)	
Tris(2 phosp	-chloro-1-methyle	thyl)	Fresh water				64 mg/l	
,p			Marin	e water		0.	064 mg/l	
				nittent use/releas	e e		51 mg/l	
			Sewa	ige treatment pla	nt		84 mg/l	
				water sediment			92 mg/kg dr	
							eight (d.w.)	
				e sediment		w	29 mg/kg dr eight (d.w.)	
			Soil				7 mg/kg dry eight (d.w.)	
			Oral	Secondary Poise	oning)		1600000 mg	

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8.2 Exposure controls

Engineering measures

Processing may form hazardous compounds (see section 10). Minimize workplace exposure concentrations. If sufficient ventilation is unavailable, use with local exhaust ventilation. If advised by assessment of the local exposure potential, use only in an area equipped with explosion-proof exhaust ventilation. Personal protective equipment Wear the following personal protective equipment: Eye protection 1 Safety goggles Equipment should conform to BS EN 166 Hand protection Material butyl-rubber : Break through time > 480 min : Glove thickness : >= 0.7 mm Directive : Equipment should conform to BS EN 374 Protective index : Class 6 Material : butyl-rubber Break through time > 30 min >= 0.7 mm Glove thickness Equipment should conform to BS EN 374 Directive Protective index Class 2 1 Remarks 1 Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday. Skin and body protection Select appropriate protective clothing based on chamical

Skin and body protection	Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. Wear the following personal protective equipment: If assessment demonstrates that there is a risk of explosive atmospheres or flash fires, use flame retardant antistatic protective clothing. Skin contact must be avoided by using impervious protectiv clothing (gloves, aprons, boots, etc).	
Respiratory protection	If adequate local exhaust ventilation is not available or expo sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Equipment should conform to BS EN 137	
Filter type	Self-contained breathing apparatus	

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	Aerosol containing a liquefied gas
Propellant	:	Dimethyl ether, Isobutane, Propane
Colour	:	light blue
Odour	:	characteristic
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	< 60 °C
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	Extremely flammable aerosol.
Upper explosion limit / Upper flammability limit	:	26.2 %(V)
Lower explosion limit / Lower flammability limit	:	1.5 %(V)
Vapour pressure	:	5,500 - 6,000 mbar
Relative vapour density	:	Not applicable
Density	:	0.75 g/cm ³ (20 °C)
Solubility(ies) Water solubility	:	partly miscible (20 °C)
Partition coefficient: n- octanol/water	:	Not applicable
Auto-ignition temperature	:	> 230.0 °C
Decomposition temperature	:	No data available
Viscosity		
Viscosity, kinematic	:	Not applicable

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Oxidizi	ing properties	: The substance	e or mixture is not classified as oxidizing.
9.2 Other information Particle size		: Not applicable	

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable if used as directed. Follow precautionary advice and avoid incompatible materials and conditions.

Polymerises at high temperatures with evolution of carbon dioxide.

10.3 Possibility of hazardous reactions

Hazardous reactions	 Extremely flammable aerosol. Vapours may form explosive mixture with air. Isocyanates react with many materials and the rate of reaction increases with temperature as well as increased contact; these reactions can become violent. Contact is increased by stirring or if the other material mixes with the isocyanate. Exothermic reaction with acids, amines and alcohols Reacts with water to form carbon dioxide and heat Isocyanates are not soluble in water and sink to the bottom, but react slowly at the interface. The reaction forms carbon dioxide gas and a layer of solid polyurea. If the temperature rises there is danger of the vessels bursting due to the high vapor pressure. Hazardous decomposition products will be formed at elevated temperatures.
10.4 Conditions to avoid	Last flames and sharks

- Conditions to avoid
- : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid

: Oxidizing agents Acids Bases Water Alcohols Amines Ammonia Aluminium Zinc Brass Tin Copper Galvanised metals Humid air

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10.6 Hazardous decompositio	n products
Thermal decomposition	: Formaldehyde Methanol
SECTION 11: Toxicological	information
11.1 Information on toxicologi	cal effects
Information on likely routes exposure	of : Inhalation Skin contact Ingestion Eye contact
Acute toxicity	
Harmful if swallowed or if in	haled.
Product: Acute oral toxicity	: Acute toxicity estimate: 1,532 mg/kg Method: Calculation method
Acute inhalation toxicity	: Acute toxicity estimate: 4 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Components:	
Diphenylmethane diisocy	anate, isomers and homologues:
Acute oral toxicity	: LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	 LC50 (Rat): > 2.24 mg/l Exposure time: 1 h Test atmosphere: dust/mist Method: OECD Test Guideline 403
Acute dermal toxicity	: LD50 (Rabbit): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity
Tris(2-chloro-1-methyleth	yl) phosphate:
Acute oral toxicity	: LD50 (Rat): 931 mg/kg
Acute inhalation toxicity	: LC50 (Rat): > 7 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute dermal toxicity	: LD50 (Rabbit): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity
Ethylene glycol:	
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Acute	oral toxicity	:	Acute toxicity Method: Expe	estimate: 500 mg/kg rt judgement
Acute inhalation toxicity		:	LC50 (Rat): > Exposure time Test atmosph	e: 6 h
Acute dermal toxicity		:	LD50 (Mouse)): > 3,500 mg/kg
Isobu	itane:			
Acute	inhalation toxicity	:	LC50 (Rat): 5 Exposure time Test atmosphe	e: 15 min
Dime	thyl ether:			
Acute	inhalation toxicity	:	LC50 (Rat): 10 Exposure time Test atmosphe	e: 4 h
Brond	ane:			
гюра				
-	inhalation toxicity	:	LC50 (Rat): > Exposure time Test atmosph	e: 15 min
Acute Skin	corrosion/irritation es skin irritation.	:	Exposure time	e: 15 min
Acute Skin (Cause <u>Comp</u>	corrosion/irritation es skin irritation. conents:		Exposure time Test atmosph	e: 15 min ere: gas
Acute Skin (Cause <u>Comp</u>	corrosion/irritation es skin irritation. oonents: enylmethane diisocy		Exposure time Test atmosph	e: 15 min ere: gas
Acute Skin (Cause <u>Comr</u> Diphe	corrosion/irritation es skin irritation. conents: enylmethane diisocy es		Exposure time Test atmosph	e: 15 min ere: gas
Acute Skin o Cause <u>Comp</u> Diphe Speci Resul	corrosion/irritation es skin irritation. <u>conents:</u> enylmethane diisocy es It	anate.	Exposure time Test atmosphe , isomers and Rabbit Skin irritation	e: 15 min ere: gas
Acute Skin o Cause <u>Comp</u> Diphe Speci Resul	corrosion/irritation es skin irritation. <u>conents:</u> enylmethane diisocy es t 2-chloro-1-methyleth	anate.	Exposure time Test atmosphe , isomers and Rabbit Skin irritation	e: 15 min ere: gas
Acute Skin (Cause Comp Diphe Speci Resul Tris(2 Speci Metho	corrosion/irritation es skin irritation. <u>conents:</u> enylmethane diisocy es lt 2-chloro-1-methyleth es od	anate.	Exposure time Test atmospheric statmospheric skin irritation osphate: Rabbit OECD Test G	ere: gas homologues: uideline 404
Acute Skin (Cause Comp Diphe Speci Resul Tris(2 Speci	corrosion/irritation es skin irritation. <u>conents:</u> enylmethane diisocy es lt 2-chloro-1-methyleth es od	anate.	Exposure time Test atmospheric , isomers and Rabbit Skin irritation osphate: Rabbit	ere: gas homologues: uideline 404
Acute Skin o Cause Comp Diphe Speci Resul Tris(2 Speci Metho Resul	corrosion/irritation es skin irritation. <u>conents:</u> enylmethane diisocy es lt 2-chloro-1-methyleth es od	anate.	Exposure time Test atmospheric statmospheric skin irritation osphate: Rabbit OECD Test G	ere: gas homologues: uideline 404
Acute Skin o Cause Comp Diphe Speci Resul Tris(2 Speci Metho Resul Ethyle Speci	corrosion/irritation es skin irritation. <u>conents:</u> enylmethane diisocy es it 2-chloro-1-methyleth es od it ene glycol: es	anate.	Exposure time Test atmospheric isomers and Rabbit Skin irritation osphate: Rabbit OECD Test G No skin irritation Rabbit	ere: gas homologues: uideline 404 on
Acute Skin (Cause Diphe Speci Resul Tris(2 Speci Metho Resul Ethyl	corrosion/irritation es skin irritation. <u>conents:</u> enylmethane diisocy es it 2-chloro-1-methyleth es od it ene glycol: es	anate.	Exposure time Test atmospheric isomers and Rabbit Skin irritation osphate: Rabbit OECD Test G No skin irritation	ere: gas homologues: uideline 404 on
Acute Skin o Cause Comp Diphe Speci Resul Tris(2 Speci Resul Ethyle Speci Resul	corrosion/irritation es skin irritation. <u>conents:</u> enylmethane diisocy es it 2-chloro-1-methyleth es od it ene glycol: es it us eye damage/eye i	anate yl) ph	Exposure time Test atmosphe isomers and Rabbit Skin irritation osphate: Rabbit OECD Test G No skin irritation Rabbit No skin irritation	ere: gas homologues: uideline 404 on
Acute Skin o Cause Comp Diphe Speci Resul Tris(2 Speci Resul Ethyle Speci Resul	corrosion/irritation es skin irritation. <u>conents:</u> enylmethane diisocy es it 2-chloro-1-methyleth es od it ene glycol: es it	anate yl) ph	Exposure time Test atmosphe isomers and Rabbit Skin irritation osphate: Rabbit OECD Test G No skin irritation Rabbit No skin irritation	ere: gas homologues: uideline 404 on
Acute Skin o Cause Comp Diphe Speci Resul Tris(2 Speci Resul Ethyle Speci Resul Ethyle Speci Resul	corrosion/irritation es skin irritation. <u>conents:</u> enylmethane diisocy es it 2-chloro-1-methyleth es od it ene glycol: es it us eye damage/eye i	anate yl) ph	Exposure time Test atmosphe isomers and Rabbit Skin irritation osphate: Rabbit OECD Test G No skin irritation Rabbit No skin irritation	ere: gas homologues: uideline 404 on
Acute Skin o Cause Diphe Speci Resul Tris(2 Speci Metho Resul Ethyle Speci Resul Speci Resul	corrosion/irritation es skin irritation. <u>conents:</u> enylmethane diisocy es t 2-chloro-1-methyleth es bd t ene glycol: es t us eye damage/eye i es serious eye irritatio	anate yl) ph	Exposure time Test atmosphe attributed (rest atmosphe (rest atmosphe) (rest attributed (rest attributed) (rest attribute	ere: gas homologues: uideline 404 on

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Tris(2	2-chloro-1-methyleth	yl) phosphate:	
Speci	ies	: Rabbit	
Metho		: OECD Test G	uideline 405
Resul	lt	: No eye irritatio	on
Ethyl	ene glycol:		
Speci	ies	: Rabbit	
Resul	lt	: No eye irritatio	n
Resp	iratory or skin sensi	tisation	
Skin	sensitisation		
May c	cause an allergic skin	reaction.	
	iratory sensitisation		
		na symptoms or breat	hing difficulties if inhaled.
	ponents:		
-		anate, isomers and : Buehler Test	homologues:
Test T	sure routes	: Skin contact	
Speci		: Guinea pig	
Resul		: positive	
Rema			a from similar materials
Asses	ssment	: Probability or	evidence of skin sensitisation in humans
	sure routes	: inhalation (du	st/mist/fume)
Speci		: Rat	
Resul	It	: positive	
Asses	ssment	: Probability of animal testing	respiratory sensitisation in humans based
Tris(2	2-chloro-1-methyleth	yl) phosphate:	
Test 7	Туре	: Local lymph n	ode assay (LLNA)
	sure routes	: Skin contact	
Speci		: Mouse	
Metho		: OECD Test G	uideline 429
Resul	lt	: negative	
Ethyl	ene glycol:		
Test	Туре	: Maximisation	Test
	sure routes	: Skin contact	
Speci		: Guinea pig	
	lt	: negative	

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<u>Comp</u>	oonents:		
Diphe	enylmethane diisocy	vanate, isomers	and homologues:
Geno	toxicity in vitro	: Test Type Result: ne	e: Bacterial reverse mutation assay (AMES) egative
Geno	toxicity in vivo	cytogene Species: Applicatio	Rat on Route: inhalation (dust/mist/fume) DECD Test Guideline 474
Tris(2	2-chloro-1-methyleth	yl) phosphate:	
Geno	toxicity in vitro		e: Bacterial reverse mutation assay (AMES) DECD Test Guideline 471 egative
			e: In vitro mammalian cell gene mutation test DECD Test Guideline 476 ositive
Geno	toxicity in vivo	cytogene Species:	n Route: Ingestion
Ethyl	ene glycol:		
-	toxicity in vitro		e: Bacterial reverse mutation assay (AMES) DECD Test Guideline 471 egative
Isobu	itane:		
Geno	toxicity in vitro	Method: (Result: ne	e: Chromosome aberration test in vitro DECD Test Guideline 473 egative Based on data from similar materials
		Result: ne	e: Bacterial reverse mutation assay (AMES) egative Based on data from similar materials
Geno	toxicity in vivo	cytogene Species: Applicatio Method: 0 Result: ne	Rat on Route: inhalation (gas) DECD Test Guideline 474

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ersion 0	Revision Date: 18.03.2021	SDS Number 239962-0002	
Dime	thyl ether:		
	toxicity in vitro		e: Bacterial reverse mutation assay (AMES) DECD Test Guideline 471 egative
			e: Chromosome aberration test in vitro DECD Test Guideline 473 egative
			e: In vitro mammalian cell gene mutation test DECD Test Guideline 476 egative
Geno	toxicity in vivo	anogaste	on Route: inhalation (gas)
Propa	ane:		
Geno	toxicity in vitro	Result: ne	e: Bacterial reverse mutation assay (AMES) egative Based on data from similar materials
Geno	toxicity in vivo	cytogenet Species: Applicatio Method: C Result: ne	Rat on Route: inhalation (gas) DECD Test Guideline 474
Carci	nogenicity		
	nogenicity ected of causing can	cer.	
Suspe	• •	cer.	
Suspe <u>Comp</u> Diphe	ected of causing can <u>conents:</u> enylmethane diisoc		and homologues:
Suspe Comp Diphe Speci	ected of causing can ponents: enylmethane diisoc	yanate, isomers a : Rat	-
Suspection Special Special Applic	ected of causing can <u>conents:</u> enylmethane diisoc les cation Route	yanate, isomers a : Rat : inhalation	and homologues: (dust/mist/fume)
Suspection Special Special Applic	ected of causing can <u>conents:</u> enylmethane diisoc les cation Route sure time	yanate, isomers a : Rat	-
Suspect Comp Diphe Speci Applic Expos Resul	ected of causing can <u>conents:</u> enylmethane diisoc les cation Route sure time	yanate, isomers a Rat inhalation 2 Years positive	-
Suspect Comp Diphe Speci Applic Expos Resul Carcin ment	ected of causing can <u>conents:</u> enylmethane diisoc les cation Route sure time It	yanate, isomers a Rat inhalation 2 Years positive	(dust/mist/fume)
Suspect Comp Diphe Speci Applic Expos Resul Carcir ment Ethyle Speci	ected of causing can <u>conents:</u> enylmethane diisoc les cation Route sure time lt nogenicity - Assess- ene glycol: les	yanate, isomers a : Rat : inhalation : 2 Years : positive : Limited ev : Mouse	(dust/mist/fume)
Suspect Comp Diphe Speci Applic Expos Resul Carcir ment Ethyle Speci Applic	ected of causing can <u>ponents:</u> enylmethane diisoc les cation Route sure time lt nogenicity - Assess- ene glycol:	yanate, isomers a Rat inhalation 2 Years positive Limited ev	(dust/mist/fume)

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S A E	Species	tion Route	:	Rat inhalation (vapour 2 Years negative)
	-	l uctive toxicity ssified based on availa	ble	information.	
<u>(</u>	Compo	nents:			
E	-	ylmethane diisocyan on foetal develop-	ate.	Test Type: Embry Species: Rat	nologues: o-foetal development : inhalation (dust/mist/fume)
٦	Tris(2-c	chloro-1-methylethyl)	ph	osphate:	
E	Effects	on fertility	:	Test Type: Two-g Species: Rat Application Route Method: OECD Te Result: negative	
	Effects ment	on foetal develop-	:	Test Type: Embry Species: Rat Application Route Result: negative	o-foetal development : Ingestion
	sobuta	ine:			
		on fertility	:		
	Effects ment	on foetal develop-	:		
ſ	Dimeth	yl ether:			
		on fertility	:	reproduction/deve Species: Rat	ned repeated dose toxicity study with the lopmental toxicity screening test : inhalation (vapour)

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Effects on foetal develop- ment		:	: Test Type: Embryo-foetal development Species: Rat Application Route: inhalation (vapour) Result: negative				
Propa	ane:						
Effects on fertility		:	reproduction/de Species: Rat Application Rot	nbined repeated dose toxicity study with the evelopmental toxicity screening test ute: inhalation (gas) 9 Test Guideline 422 e			
Effect ment	ts on foetal develop-	:	reproduction/de Species: Rat Application Rot	nbined repeated dose toxicity study with the evelopmental toxicity screening test ute: inhalation (gas) 9 Test Guideline 422 e			
-	enylmethane diisocya ssment	inate,		piratory irritation.			
Isobu	utane:						
Asses	ssment	:	May cause dro	wsiness or dizziness.			
Dime	thyl ether:						
Asses	ssment	:	May cause dro	wsiness or dizziness.			
Propa	ane:						
Asses	ssment	:	May cause dro	wsiness or dizziness.			
	- repeated exposure cause damage to orgar		ugh prolonged	or repeated exposure.			
	ponents:						
Diphe	enylmethane diisocya	inate,	isomers and h	omologues:			
	sure routes et Organs	:	inhalation (dust Respiratory Tra				
-	ssment	:		uce significant health effects in animals at co			

: Shown to produce significant health effects in animals at concentrations of >0.02 to 0.2 mg/l/6h/d.

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Tris(2	-chloro-1-methyleth	yl) phosphate:	
Asses	sment	: No significant h tions of 100 mg	ealth effects observed in animals at concentra /kg bw or less.
Ethyle	ene glycol:		
Targe	sure routes t Organs sment	•	uce significant health effects in animals at con- 10 to 100 mg/kg bw.
Repea	ated dose toxicity		
<u>Comp</u>	oonents:		
Diphe	enylmethane diisocy	anate, isomers and h	omologues:
Specie		: Rat	-
NOAE		: 1.4 mg/m3	
LOAE		: 4.1 mg/m3	logication of the second
	ation Route sure time	: inhalation (dust : 13 Weeks	/mist/tume)
Expoo			
Tris(2	-chloro-1-methyleth	yl) phosphate:	
Specie		: Rat	
LOAE	—	: 52 mg/kg	
	ation Route sure time	: Ingestion : 13 Weeks	
Lypus		. 15 Weeks	
Ethyle	ene glycol:		
Specie	es	: Rat	
NOAE		: 150 mg/kg	
	ation Route	: Ingestion	
Expos	sure time	: 2 yr	
Specie		: Dog	
NOAE		: 2,200 - 4,400 n	ng/kg
	ation Route sure time	: Skin contact : 4 Weeks	
Metho		: OECD Test Gu	ideline 410
laabu	tono		
Isobu Specie		: Rat	
NOAE		: >= 9000 ppm	
	ation Route	: inhalation (gas)	
Expos	sure time	: 6 Weeks	
Metho	d	: OECD Test Gu	ideline 422
Dimet	hyl ether:		
Specie	•	: Rat	
NOAE		: 47.11 mg/l	
Applic	ation Route	: inhalation (vapo	our)

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Expos	ure time	: 2 yr	
	es L ation Route ure time	: Rat : 7.214 mg/l : inhalation (gas : 6 Weeks : OECD Test Gu	

Aspiration toxicity

Not classified based on available information.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Dinhenvlmethane diisocvanate, isomers and homologues:

Diphenylmethane diisocyan	ate	, isomers and homologues:
Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): > 1,000 mg/l Exposure time: 96 h
Toxicity to algae/aquatic plants	:	ErC50 (Desmodesmus subspicatus (green algae)): > 1,640 mg/l Exposure time: 72 h
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC: > 10 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea)
Tris(2-chloro-1-methylethyl)	ph	osphate:
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 51 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 131 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): 82 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		EC10 (Pseudokirchneriella subcapitata (green algae)): 42 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to microorganisms	:	EC50 : 784 mg/l Exposure time: 30 min Method: ISO 8192
Toxicity to daphnia and other aquatic invertebrates (Chron-	:	NOEC: 32 mg/l Exposure time: 21 d

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ic tox	icity)		Species: Daphnia Method: OECD Te	magna (Water flea) est Guideline 211
Ethyl	ene glycol:			
Toxic	ity to fish	:	LC50 (Pimephale Exposure time: 96	s promelas (fathead minnow)): 72,860 mg/l S h
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD T	
Toxic plants	ity to algae/aquatic	:	EC50 (Pseudokiro 13,000 mg/l Exposure time: 96	chneriella subcapitata (green algae)): 6,500 S h
Toxic icity)	ity to fish (Chronic tox-	:	NOEC: 15,380 m Exposure time: 7 Species: Pimepha	
	ity to daphnia and other ic invertebrates (Chron- icity)	:	Exposure time: 7	
Dime	thyl ether:			
Toxic	ity to fish	:	LC50 (Poecilia reticulata (guppy)): > 4,100 mg/l Exposure time: 96 h	
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 48	nagna (Water flea)): > 4,400 mg/l 3 h
Toxic	ity to microorganisms	:	EC10 (Pseudomonas putida): > 1,600 mg/l	
2.2 Persi	stence and degradabil	itv		
	oonents:			
	enylmethane diisocyan	ate	isomers and hor	nologues:
-	gradability	:	Result: Not readil Biodegradation: (Exposure time: 28	y biodegradable.) %
Tris(2	2-chloro-1-methylethyl)) ph	osphate:	
Biode	gradability	:	Result: Not readil Biodegradation: (Exposure time: 28	0%
Ethyl	ene glycol:			
-	egradability	:	Result: Readily bi Biodegradation: 9 Exposure time: 10 Method: OECD T	90 - 100 %

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	utane:		Desuit: Dessili					
BIODE	egradability	:	: Result: Readily biodegradable. Remarks: Based on data from similar materials					
Dime	ethyl ether:							
	egradability	:		adily biodegradable.				
			Biodegradation Exposure time					
				D Test Guideline 301D				
Prop	ane:							
Biode	egradability	:		y biodegradable. ed on data from similar materials				
12.3 Bioa	ccumulative potentia	al						
<u>Com</u>	ponents:							
•	2-chloro-1-methyleth	yl) pho	-					
Bioad	ccumulation	:	Bioconcentrati	nus carpio (Carp) on factor (BCF): 0.8 - 4.6) Test Guideline 305C				
	tion coefficient: n- nol/water	:	log Pow: 2.68					
Ethy	lene glycol:							
Bioad	ccumulation	:		iscus idus (Golden orfe) on factor (BCF): 10				
	ion coefficient: n- nol/water	:	log Pow: -1.93					
Isob	utane:							
	ion coefficient: n- nol/water	:	log Pow: 2.8					
Dime	ethyl ether:							
Partit	ion coefficient: n-	:	log Pow: 0.2					
octar	nol/water							
Prop	ane:							
	ion coefficient: n- nol/water	:	: log Pow: 2.36					
	ility in soil							
No da	ata available							
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12.5 Results of PBT and vPvB assessment

Product:	
Assessment	: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
12.6 Other adverse effects	
Product:	

Endocrine disrupting poten- tial	:	The substance/mixture does not contain components consid- ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
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SECTION 13: Disposal considerations

13.1 Waste treatment methods

۰.	Wuste freuthent methods		
	Product	:	Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.
	Contaminated packaging	:	Empty containers should be taken to an approved waste han- dling site for recycling or disposal. Empty containers retain residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or ex- pose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or death. If not otherwise specified: Dispose of as unused product. Please ensure aerosol cans are sprayed completely empty (including propellant)
	Waste Code	:	The following Waste Codes are only suggestions: used product 08 04 09, waste adhesives and sealants containing organic solvents or other hazardous substances
			unused product 08 04 09, waste adhesives and sealants containing organic solvents or other hazardous substances
			uncleaned packagings 15 01 10, packaging containing residues of or contaminated by hazardous substances

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SECTION 14: Transport info	rmation : UN 1950	
-	· UN 1950	
	· UN 1950	
4.1 UN number	 LINI 1050 	
ADN		
ADR	: UN 1950	
RID	: UN 1950	
IMDG	: UN 1950	
ΙΑΤΑ	: UN 1950	
4.2 UN proper shipping name		
ADN	: AEROSOLS	
ADR	: AEROSOLS	
RID	: AEROSOLS	
IMDG	: AEROSOLS	
ΙΑΤΑ	: Aerosols, flam	imable
4.3 Transport hazard class(es	;)	
ADN	: 2	
ADR	: 2	
RID	: 2	
IMDG	: 2.1	
ΙΑΤΑ	: 2.1	
4.4 Packing group		
ADN		
Packing group Classification Code Labels	: Not assigned : 5F : 2.1	by regulation
ADR Packing group Classification Code Labels Tunnel restriction code	: Not assigned I : 5F : 2.1 : (D)	by regulation
RID Packing group Classification Code Hazard Identification Numbe Labels	: Not assigned : 5F er : 23 : 2.1	by regulation
IMDG Packing group Labels EmS Code	: Not assigned : 2.1 : F-D, S-U	by regulation
IATA (Cargo)		

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airc Pac	king instruction (LQ) king group	:	203 Y203 Not assigned by r Flammable Gas	egulation	
Pac ger Pac Pac Lab		:	203 Y203 Not assigned by r Flammable Gas	egulation	
14.5 Environmental hazards					
ADI Env	l ironmentally hazardous	:	no		
ADI Env	R ironmentally hazardous	:	no		
RID Env	ironmentally hazardous	:	no		
IMD Mar	G ine pollutant	:	no		
14.6 Spe	cial precautions for use	er			
bas She	The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and va iations in regional or country regulations.				
14.7 Tra	nsport in bulk according	g to A	Annex II of Marpo	ol and the IBC Code	
Ren	narks	:	Not applicable for	product as supplied.	

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	:	Conditions of restriction for the fol- lowing entries should be considered: Diphenylmethane diisocyanate, iso- mers and homologues (Number on list 56)
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable
Regulation (EC) No 1005/2009 on substances that de- plete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollu-	:	Not applicable

according to Regulation (EC) No. 1907/2006

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ta	ants (recast)						
m	Regulation (EC) No 649/2012 of the European Parlia- : Not applicable ment and the Council concerning the export and import of dangerous chemicals						
Seveso III: Directive 2012/18/EU of the European Parliament and of t major-accident hazards involving dangerous substances.				nd of the Council	on the control of		
Р	23a	U	FLAMMABLE AE	ROSOLS	Quantity 1 150 t	Quantity 2 500 t	
18	8		Liquefied extreme mable gases (inc LPG) and natural	luding	50 t	200 t	
V	/olatile organic compounds	:	, J	ated polluti	November 2010 or on prevention and (VOC) content: 17	control)	

Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Full text of H-Statements

H220 :: H280 :: H302 :: H315 :: H317 :: H319 :: H332 :: H334 ::	Extremely flammable gas. Contains gas under pressure; may explode if heated. Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficul- ties if inhaled.
H335 :	May cause respiratory irritation.
H336 :	May cause drowsiness or dizziness.
H351 :	Suspected of causing cancer.
H373 :	May cause damage to organs through prolonged or repeated exposure if inhaled.
H373 :	May cause damage to organs through prolonged or repeated exposure if swallowed.

according to Regulation (EC) No. 1907/2006

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I	Full text of other abbreviation	ons						
	Acute Tox.	: A	cute toxicity					
(Carc.	: C	Carcinogenicity					
I	Eye Irrit.	: E	ye irritation					
I	Flam. Gas		lammable gases					
-	Press. Gas		ases under pres					
	Resp. Sens.		espiratory sensit	isation				
	Skin Irrit.		kin irritation					
	Skin Sens.		kin sensitisation					
	STOT RE		Specific target organ toxicity - repeated exposure					
	STOT SE			an toxicity - single exposure				
2000/39/EC				ion Directive 2000/39/EC establishing a first cupational exposure limit values				
4	2004/37/EC	fr		2004/37/EC on the protection of workers ted to exposure to carcinogens or mutagens				
2	2006/15/EC			occupational exposure limit values				
GB EH40				Workplace Exposure Limits				
GB EH40 BAT				nitoring guidance values				
	2000/39/EC / TWA		Limit Value - eight hours					
2000/39/EC / STEL :			hort term exposu					
	2004/37/EC / STEL		hort term exposu					
	2004/37/EC / TWA		ong term exposu					
	2006/15/EC / TWA		imit Value - eight					
GB EH40 / TWA : GB EH40 / STEL :				ire limit (8-hour TWA reference period) ure limit (15-minute reference period)				

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS -Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP -Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization: IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL -International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Reaccording to Regulation (EC) No. 1907/2006

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striction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS -Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Sources of key data used to	:	Internal technical data, data from raw material SDSs, OECD
compile the Safety Data		eChem Portal search results and European Chemicals Agen-
Sheet		cy, http://echa.europa.eu/

Classification of the	mixture:	Classification procedure:	
Aerosol 1	H222, H229	Based on product data or assessment	
Acute Tox. 4	H302	Calculation method	
Acute Tox. 4	H332	Calculation method	
Skin Irrit. 2	H315	Calculation method	
Eye Irrit. 2	H319	Calculation method	
Resp. Sens. 1	H334	Calculation method	
Skin Sens. 1	H317	Calculation method	
Carc. 2	H351	Calculation method	
STOT SE 3	H335	Calculation method	
STOT SE 3	H336	Calculation method	
STOT RE 2	H373	Calculation method	
Skin Irrit. 2 Eye Irrit. 2 Resp. Sens. 1 Skin Sens. 1 Carc. 2 STOT SE 3 STOT SE 3	H315 H319 H334 H317 H351 H335 H336	Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method	

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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