

### SAFETY DATA SHEET

Version #: Supersedes date: Revision date: 05 30-December-2020 14-June-2021 01-April-2022

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

1.1. Product identifier

Trade name or designation Dykem® Cross Check™ Torque Seal® - Pink

of the mixture

Registration number Synonyms None.

**Part Number** 83320

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

Identified uses Inspection Paint Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Supplier

Telephone

**ITW Performance Polymers** Company name

**Address** Bay 150

> Shannon Industrial Estate Shannon, CO, Clare Ireland V14 DF82 353 (61) 771 500

353 (61) 471 285

+44(0)1235 239 670 (24h) In Case of Emergency

**Email** mail@itwpp.com

Manufacturer

**ITW Pro Brands** Company name 805 E. Old 56 Highway **Address** 

Olathe, KS 66061

Country (U.S.A.)

Tel: +1 800-443-9536

In Case of Emergency +1 800-535-5053 (Infotrac)

#### **SECTION 2: Hazards identification**

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

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

#### Classification according to Regulation (EC) No 1272/2008 as amended

Physical hazards

Flammable liquids H226 - Flammable liquid and Category 3

vapour.

**Health hazards** 

Serious eye damage/eye irritation Category 1 H318 - Causes serious eye

damage.

Skin sensitisation Category 1 H317 - May cause an allergic skin

reaction.

Germ cell mutagenicity Category 1B H340 - May cause genetic defects.

Carcinogenicity Category 1B H350 - May cause cancer.

Specific target organ toxicity - single Category 1

exposure

Specific target organ toxicity - repeated

exposure

Category 1 (central nervous system) H372 - Causes damage to organs

(central nervous system) through prolonged or repeated exposure.

H370 - Causes damage to organs.

Aspiration hazard Category 1 H304 - May be fatal if swallowed

and enters airways.

**Environmental hazards** 

Hazardous to the aquatic environment, H412 - Harmful to aquatic life with Category 3

long-term aquatic hazard long lasting effects.

2.2. Label elements

Material name: Dykem® Cross Check™ Torque Seal® - Pink

83320 Version #: 05 Revision date: 01-April-2022 Issue date: 30-December-2020

#### Label according to Regulation (EC) No. 1272/2008 as amended

Contains: 2-Methoxy-1-methylethyl acetate, butanone oxime; ethyl methyl ketoxime; ethyl methyl ketoxime

oxime, carbendazim (ISO);methyl benzimidazol-2-ylcarbamate, Diacetone alcohol, Ethylbenzene, solvent naphtha (petroleum), medium aliph.; Straight run kerosine [A complex combination of

hydrocarbons obtained from the distillation of crude oil or natural gasoline. It consists predominantly of saturated hydrocarbons having carbon numbers predominant

**Hazard pictograms** 



Signal word Danger

**Hazard statements** 

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H340 May cause genetic defects.

H350 May cause cancer.

H370 Causes damage to organs.

H372 Causes damage to organs (central nervous system) through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

#### **Precautionary statements**

#### Prevention

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P235 Keep cool.

P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P260 Do not breathe vapour.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

Response

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTRE/doctor.

P331 Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTRE/doctor.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P370 + P378 In case of fire: Use appropriate media to extinguish.

**Storage** 

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

**Disposal** 

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information EUH208 - Contains butanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime. May

produce an allergic reaction.

2.3. Other hazards

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation

(EC) No 1907/2006, Annex XIII. The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or

Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

Material name: Dykem® Cross Check™ Torque Seal® - Pink
83320 Version #: 05 Revision date: 01-April-2022 Issue date: 30-December-2020

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Note
solvent naphtha (petroleum), medium aliph.; Straight run kerosine [A complex combination of hydrocarbons obtained from the distillation of crude oil or natural gasoline. It consists predominantly of saturated hydrocarbons having carbon numbers predominant	30 - 40	64742-88-7 265-191-7	-	649-405-00-X	
Classification:	STOT RE	1;H372, Asp. Tox. 1;I	H304		
2-Methoxy-1-methylethyl acetate	1 - 5	108-65-6 203-603-9	-	607-195-00-7	#
Classification:	Flam. Liq.	3;H226			
butanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime	1 - 5	96-29-7 202-496-6	-	616-014-00-0	
	1;H318, SI	. 4;H312;(ATE: 1100   kin Sens. 1;H317, Ca TOT RE 2;H373	mg/kg), Skin Irrit. 2;H315, E irc. 1B;H350, STOT SE 1;H	ye Dam. 370, STOT SE	
Diacetone alcohol	1 - 5	123-42-2 204-626-7	-	603-016-00-1	
Classification:	Eye Irrit. 2	;H319			
carbendazim (ISO);methyl benzimidazol-2-ylcarbamate	0,1 - 1	10605-21-7 234-232-0	-	613-048-00-8	
	Muta. 1B;ł Chronic 1;		PFD, Aquatic Acute 1;H400,	Aquatic	
Ethylbenzene	0,1 - 1	100-41-4	_	601-023-00-4	#

List of abbreviations and symbols that may be used above

CLP: Regulation No. 1272/2008. DSD: Directive 67/548/EEC. ATE: Acute toxicity estimate.

Other components below reportable

M: M-factor

PBT: persistent, bioaccumulative and toxic substance. vPvB: very persistent and very bioaccumulative substance.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. #: This substance has been assigned Union workplace exposure limit(s).

Classification: Flam. Liq. 2;H225, Acute Tox. 4;H332;(ATE: 11 mg/l), STOT RE 2;H373,

**Composition comments** 

The full text for all H-statements is displayed in section 16. The full text for all R- and H-phrases is displayed in section 16.

#### **SECTION 4: First aid measures**

**General information** 

Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

4.1. Description of first aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Asp. Tox. 1;H304

62,293

Remove contaminated clothing immediately and wash skin with soap and water. In case of Skin contact eczema or other skin disorders: Seek medical attention and take along these instructions.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact present and easy to do. Continue rinsing. Get medical attention immediately.

Call a physician or poison control centre immediately. Rinse mouth. Do not induce vomiting. If

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

4.2. Most important symptoms and effects, both acute and

delayed

Ingestion

Aspiration may cause pulmonary oedema and pneumonitis. Narcosis. Behavioural changes. Decrease in motor functions. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause an allergic skin reaction. Dermatitis. Rash. Prolonged exposure may cause chronic

effects.

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

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

#### **SECTION 5: Firefighting measures**

General fire hazards

Flammable liquid and vapour.

5.1. Extinguishing media

Suitable extinguishing

media

Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture Vapours may form explosive mixtures with air. Vapours may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting procedures

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do

so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials. Specific methods

#### **SECTION 6: Accidental release measures**

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

For non-emergency personnel

Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist/vapours. Do not touch damaged containers or spilled material unless wearing appropriate protective

For emergency responders

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Avoid breathing mist/vapours. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers.

6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13.

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist/vapours. Do not get this material in contact with eyes. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

7.3. Specific end use(s)

Not available.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

Material name: Dykem® Cross Check™ Torque Seal® - Pink 83320 Version #: 05 Revision date: 01-April-2022 Issue date: 30-December-2020

#### **Occupational exposure limits**

Components	GwV), BGBI. II, no. 184/2001 Type	Value	Form
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	Ceiling	550 mg/m3	
		100 ppm	
	MAK	275 mg/m3	
		50 ppm	
Aluminium hydroxide (CAS 21645-51-2)	MAK	5 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
	STEL	20 mg/m3	Inhalable fraction.
		10 mg/m3	Respirable fraction
Diacetone alcohol (CAS 123-42-2)	MAK	240 mg/m3	
		50 ppm	
Ethylbenzene (CAS 100-41-4)	Ceiling	880 mg/m3	
,		200 ppm	
	MAK	440 mg/m3	
		100 ppm	
Silica, amorphous (CAS 7631-86-9)	MAK	4 mg/m3	Inhalable fraction.
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter = 10 µm] (CAS 13463-67-7)	MAK	5 mg/m3	Respirable dust.
amj (CAS 13405-07-1)	STEL	10 mg/m3	Respirable dust.
Belgium. Exposure Limit Values			
Components	Туре	Value	Form
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	STEL	550 mg/m3	
		100 ppm	
	TWA	275 mg/m3	
		50 ppm	
Diacetone alcohol (CAS 123-42-2)	TWA	241 mg/m3	
		50 ppm	
Ethylbenzene (CAS 100-41-4)	STEL	551 mg/m3	
		125 ppm	
	TWA	87 mg/m3	
		20 ppm	
oxo-oxoalumanyloxy-[oxo(o koalumanyloxy)silyl]oxysilan e;dihydrate (CAS 1332-58-7)	TWA	2 mg/m3	Respirable fraction
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter = 10  µm] (CAS 13463-67-7)	TWA	10 mg/m3	
Bulgaria. OELs. Regulation No 13 o	=		<del>-</del>
Campananan	Туре	Value	Form
Components		EEO / 2	
2-Methoxy-1-methylethyl	STEL	550 mg/m3	
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)		100 ppm	
2-Methoxy-1-methylethyl	STEL	•	

SDS EU

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Components	Туре	Value	Form
Ethylbenzene (CAS 100-41-4)	STEL	545 mg/m3	
	TWA	435 mg/m3	
oxo-oxoalumanyloxy-[oxo(o xoalumanyloxy)silyl]oxysilan e;dihydrate (CAS 1332-58-7)	TWA	6 mg/m3	Inhalable fraction.
		3 mg/m3	Respirable fraction
Silica, amorphous (CAS 7631-86-9)	TWA	10 mg/m3	Inhalable fraction.
		0,07 mg/m3	Respirable fraction
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter = 10 µm] (CAS 13463-67-7)	TWA	10 mg/m3	Respirable dust.

Croatia. Dangerous Substance Exp Components	oosure Limit Values in the W Type	/orkplace (ELVs), Annexes 1 a Value	nd 2, Narodne Novine, 13/09 Form
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	MAC	275 mg/m3	
		50 ppm	
	STEL	550 mg/m3	
		100 ppm	
Diacetone alcohol (CAS 123-42-2)	MAC	241 mg/m3	
		50 ppm	
	STEL	362 mg/m3	
		75 ppm	
Ethylbenzene (CAS 100-41-4)	MAC	442 mg/m3	
		100 ppm	
	STEL	884 mg/m3	
		200 ppm	
oxo-oxoalumanyloxy-[oxo(o xoalumanyloxy)silyl]oxysilan e;dihydrate (CAS 1332-58-7)	MAC	2 mg/m3	Respirable dust.
Silica, amorphous (CAS 7631-86-9)	MAC	6 mg/m3	Total dust.
·		0,1 mg/m3	Respirable dust.
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter = 10 µm] (CAS 13463-67-7)	MAC	4 mg/m3	Respirable dust.
1 1(		10 mg/m3	Total dust.

# Cyprus. OELs. Control of factory atmosphere and dangerous substances in factories regulation, PI 311/73, as amended. Components Type Value

Components	туре	value	
Silica, amorphous (CAS 7631-86-9)	TWA	2 mg/m3	
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter = 10 µm] (CAS 13463-67-7)	TWA	10 mg/m3	

## Czech Republic. OELs. Government Decree 361

Components	Туре	Value	
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	Ceiling	550 mg/m3	
	TWA	270 mg/m3	
Diacetone alcohol (CAS 123-42-2)	Ceiling	300 mg/m3	

VA villing VA pe V	200 mg/m3 500 mg/m3 200 mg/m3 <b>Value</b> 275 mg/m3	Form
VA pe	200 mg/m3	Form
pe	Value	Form
		Form
		Form
V	275 mg/m3	
	50 ppm	
V	240 mg/m3	
	50 ppm	
V	217 mg/m3	
	50 ppm	
V	2 mg/m3	Respirable.
V	6 mg/m3	
	∨ ∨ s of Hazardous Substances (R	V 217 mg/m3 50 ppm V 2 mg/m3

Components	Туре	Value	Form
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	STEL	550 mg/m3	
		100 ppm	
	TWA	275 mg/m3	
		50 ppm	
Diacetone alcohol (CAS 23-42-2)	STEL	240 mg/m3	
		50 ppm	
	TWA	120 mg/m3	
		25 ppm	
thylbenzene (CAS 00-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
		100 ppm	
ilica, amorphous (CAS 631-86-9)	TWA	2 mg/m3	Fine dust, respiratory fraction
tanium dioxide [in powder orm containing 1 % or nore of particles with erodynamic diameter = 10 m] (CAS 13463-67-7)	TWA	5 mg/m3	
Finland. Workplace Exposure Limits			
Components	Туре	Value	Form
-Methoxy-1-methylethyl cetate (CAS 108-65-6)	STEL	550 mg/m3	
		100 ppm	
	TWA	270 mg/m3	
		50 ppm	
iacetone alcohol (CAS 23-42-2)	STEL	360 mg/m3	
		75 ppm	
	TWA	240 mg/m3	

Finland. Workplace Exposure Limi Components	its Type	Value	Form
		50 ppm	
Ethylbenzene (CAS 100-41-4)	STEL	880 mg/m3	
·		200 ppm	
	TWA	220 mg/m3	
		50 ppm	
oxo-oxoalumanyloxy-[oxo(o xoalumanyloxy)silyl]oxysilan e;dihydrate (CAS 1332-58-7)	TWA	2 mg/m3	Respirable.
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter = 10 µm] (CAS 13463-67-7)	TWA	10 mg/m3	Dust.

# France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984 Components Type Value 2-Methoxy-1-methylethyl accetate (CAS 108-65-6) Regulatory status: Regulatory binding (VRC)

Regulatory status: Regulatory binding (VRC)

VME 275 mg/m3

**Regulatory status:** Regulatory binding (VRC)

50 ppm

100 ppm

Regulatory status: Regulatory binding (VRC)

Diacetone alcohol (CAS VME

VME 240 mg/m3

123-42-2)

Regulatory status: Indicative limit (VL)

50 ppm

Regulatory status: Indicative limit (VL)

Ethylbenzene (CAS VLE 442 mg/m3

100-41-4)

Regulatory status: Regulatory binding (VRC)

100 ppm

Regulatory status: Regulatory binding (VRC)

VME 88,4 mg/m3

**Regulatory status:** Regulatory binding (VRC)

20 ppm

10 mg/m3

Regulatory status: Regulatory binding (VRC)

titanium dioxide [in powder VME

form containing 1 % or more of particles with aerodynamic diameter = 10 µm] (CAS 13463-67-7)

Regulatory status: Indicative limit (VL)

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Components	Туре	Value	Form
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	TWA	270 mg/m3	
		50 ppm	
Aluminium hydroxide (CAS 21645-51-2)	TWA	4 mg/m3	Inhalable dust.
		1,5 mg/m3	Respirable dust.
carbendazim (ISO);methyl benzimidazol-2-ylcarbamate (CAS 10605-21-7)	TWA	10 mg/m3	Inhalable fraction.
Diacetone alcohol (CAS 123-42-2)	TWA	96 mg/m3	

# Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

100.41-4    20 ppm	Components	Туре	Value	Form
100.41-4    20 ppm			20 ppm	
Silica amorphous (CAS   TWA   4 mg/m3   Inhalable fraction	Ethylbenzene (CAS 100-41-4)	TWA	88 mg/m3	
Form			20 ppm	
CAS 112945-22-6) Itanium dioxide [in powder or or or or particles with terrodynamic diameter = 10 immin containing 1 % or or or particles with terrodynamic diameter = 10 immin (CAS 1348-69-7)  Bermany. TRGS 900, Limit Values in the Ambient Air at the Workplace Type  Value Form  Value Value Value  Value Value Value  Value Value  Value Value  Value Value  Value Value  Value Value  Value Value  Value Value  Value Value  Value Value  Value Value  Value Value  Value Value  Value Value  Value Value  Value Form	Silica, amorphous (CAS 7631-86-9)	TWA	4 mg/m3	Inhalable fraction.
come containing 1 % or nonce of particles with terrodynamic diameter = 10 min (CAS 1348-67-7)         AGW         Form           Sermany, TRGS 900, Limit Values in the Ambient Air at the Workplace Components         Type         Value         Form           Adwithout, 1-methylethyl certate (CAS 108-65-6)         AGW         270 mg/m3         50 ppm           Journal one oxime; ethyl neithyl ketoxime; ethyl neithyl ketorie oxime (CAS 168-62-7)         AGW         10 mg/m3         Inhalable fraction.           Jearbendazim (ISO);methyl serbidiazol-2-ylcarbamate (CAS 108-62-17)         AGW         96 mg/m3         Inhalable fraction.           Sillica, amorphous (CAS A) George (CAS 108-62-17)         AGW         88 mg/m3         Inhalable fraction.           Sillica, amorphous (CAS A) George (CAS 108-65-6)         AGW         4 mg/m3         Inhalable fraction.           Sillica, amorphous (CAS A) George (CAS 108-65-6)         AGW         4 mg/m3         Inhalable fraction.           Sillica, amorphous (CAS A) George (CAS 108-65-6)         AGW         4 mg/m3         Inhalable fraction.           Sillica, amorphous (CAS A) George (CAS 108-65-6)         AGW         4 mg/m3         Inhalable fraction.           Sillica, amorphous (CAS 108-65-6)         TWA         275 mg/m3         50 ppm	Synthetic Amorphous Silica CAS 112945-52-5)	TWA	4 mg/m3	Inhalable fraction.
Components   Type	itanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter = 10 um] (CAS 13463-67-7)	TWA	0,3 mg/m3	Respirable fraction.
AGW   270 mg/m3		<del>-</del>	Value	Form
Solution	<u> </u>			
Autanone oxime; ethyl nethyl ketoxime; ethyl nethyl ketoxime; ethyl nethyl ketox oxime (CAS 1605-29-7)    Sarbendazim (ISO); methyl penzimidazol-2-ylicarbamate CAS 10605-21-7)   Sarbendazim (ISO); methyl penzimidazol-2-ylicarbamate CAS 10605-21-7)   Diacetone alcohol (CAS AGW 96 mg/m3 23-42-2) 20 ppm 20 2	acetate (CAS 108-65-6)	AGW	Z70 mg/ms	
Diagram   Diag			50 ppm	
0,3 ppm   10 mg/m3	outanone oxime; ethyl nethyl ketoxime; ethyl nethyl ketone oxime (CAS	AGW	1 mg/m3	
AGW   10 mg/m3   Inhalable fraction.   Inh	70-23-7)		0,3 ppm	
Diacetone alcohol (CAS   AGW   96 mg/m3   20 ppm	carbendazim (ISO);methyl penzimidazol-2-ylcarbamate	AGW		Inhalable fraction.
20 ppm   88 mg/m3   20 ppm	Diacetone alcohol (CAS	AGW	96 mg/m3	
20 ppm   300-41-4    20 ppm   301-34-6    301-36-9	,		20 ppm	
20 ppm   4 mg/m3   Inhalable fraction.   631-86-9     631-86-9	Ethylbenzene (CAS	AGW		
AGW 4 mg/m3 Inhalable fraction. 631-86-9) 631-86-9 631-			-	
Gareece   OELs (Decree No. 90/1999, as amended)   Streece   OELs (CAS 108-65-6)   Streece   OELs (CAS 108-65-6)   OELs (CAS 108-65-6)   OELs (CAS 108-65-6)   OELs (CAS 100 ppm   OELs (CAS 100 pp			• •	
Nethoxy-1-methylethyl cetate (CAS 108-65-6)   STEL   STEL   S50 mg/m3   S50 ppm   TWA   275 mg/m3   S50 ppm   S50		AGW	4 mg/m3	Inhalable fraction.
2-Methoxy-1-methylethyl accetate (CAS 108-65-6)  TWA 275 mg/m3 100 ppm  TWA 275 mg/m3 50 ppm  Diacetone alcohol (CAS 360 mg/m3 123-42-2)  TWA 240 mg/m3 50 ppm  TWA 240 mg/m3 50 ppm  Ethylbenzene (CAS 360 mg/m3 100 ppm  TWA 435 mg/m3 100 ppm  TWA 435 mg/m3 100 ppm  Itanium dioxide [in powder orm containing 1 % or nore of particles with herodynamic diameter = 10 um] (CAS 13463-67-7)		· · · · · · · · · · · · · · · · · · ·	Value	Form
100 ppm   100 ppm   275 mg/m3   50 ppm   23-42-2)   75 ppm   70	<u> </u>			
TWA 275 mg/m3 50 ppm 301 ppm 302 ppm 303 ppm 304 ppm 305 ppm 306 ppm 3		SIEL	550 mg/ms	
STEL   360 mg/m3			100 ppm	
STEL   360 mg/m3   23-42-2   75 ppm   TWA   240 mg/m3   50 ppm   545 mg/m3   125 ppm   125 ppm   TWA   435 mg/m3   100 ppm		TWA	275 mg/m3	
23-42-2)  TWA  240 mg/m3  50 ppm  Sthylbenzene (CAS  00-41-4)  TWA  545 mg/m3  125 ppm  TWA  435 mg/m3  100 ppm  stanium dioxide [in powder or			50 ppm	
TWA 240 mg/m3 50 ppm  Ethylbenzene (CAS 00-41-4)  STEL 545 mg/m3 125 ppm TWA 435 mg/m3 100 ppm  Itanium dioxide [in powder or nore of particles with lerodynamic diameter = 10 lm] (CAS 13463-67-7)  TWA 240 mg/m3 50 ppm TWA 5 mg/m3 Respirable.		STEL	360 mg/m3	
50 ppm 5thylbenzene (CAS 00-41-4)  TWA 5 mg/m3  100 ppm  Twa 5 mg/m3  100 ppm  Itanium dioxide [in powder orm containing 1 % or nore of particles with terodynamic diameter = 10 tm] (CAS 13463-67-7)			• •	
Ethylbenzene (CAS 00-41-4)  STEL  545 mg/m3  125 ppm  TWA  435 mg/m3  100 ppm  Itanium dioxide [in powder orm containing 1 % or nore of particles with herodynamic diameter = 10 mm] (CAS 13463-67-7)		TWA	_	
125 ppm  TWA 435 mg/m3 100 ppm  Itanium dioxide [in powder  TWA 5 mg/m3 Respirable.  Torm containing 1 % or nore of particles with lerodynamic diameter = 10  Im] (CAS 13463-67-7)			50 ppm	
TWA 435 mg/m3 100 ppm  tanium dioxide [in powder TWA 5 mg/m3 Respirable.  orm containing 1 % or nore of particles with erodynamic diameter = 10 m] (CAS 13463-67-7)		STEL	_	
itanium dioxide [in powder TWA 5 mg/m3 Respirable.  porm containing 1 % or nore of particles with perodynamic diameter = 10 perodynamic diameter = 1				
tanium dioxide [in powder TWA 5 mg/m3 Respirable. orm containing 1 % or nore of particles with serodynamic diameter = 10 sm] (CAS 13463-67-7)		TWA	_	
orm containing 1 % or nore of particles with nerodynamic diameter = 10 µm] (CAS 13463-67-7)			• •	
	itanium dioxide [in powder orm containing 1 % or nore of particles with aerodynamic diameter = 10 uml (CAS 13463-67-7)	TWA	5 mg/m3	Respirable.
			10 mg/m3	Inhalable

Components	Туре	Value	
-Methoxy-1-methylethyl cetate (CAS 108-65-6)	STEL	550 mg/m3	
	TWA	275 mg/m3	
thylbenzene (CAS 00-41-4)	STEL	884 mg/m3	
,	TWA	442 mg/m3	
celand. OELs. Regulation 154/199 components	9 on occupational exposure li Type	mits Value	Form
-Methoxy-1-methylethyl	STEL	550 mg/m3	
cetate (CAS 108-65-6)			
		100 ppm	
	TWA	275 mg/m3	
		50 ppm	
acetone alcohol (CAS 23-42-2)	TWA	240 mg/m3	
·	0.751	50 ppm	
thylbenzene (CAS 00-41-4)	STEL	884 mg/m3	
,		200 ppm	
	TWA	200 mg/m3	
		50 ppm	
ко-oxoalumanyloxy-[oxo(o	TWA	2 mg/m3	Respirable dust.
oalumanyloxy)silyl]oxysilan dihydrate (CAS 1332-58-7)	TWA	z mg/mo	respirable dust.
anium dioxide [in powder orm containing 1 % or nore of particles with erodynamic diameter = 10	TWA	6 mg/m3	
m] (CAS 13463-67-7)			
eland. Occupational Exposure Li		Value	Form
eland. Occupational Exposure Li components	Туре	Value	Form
eland. Occupational Exposure Linomponents  Methoxy-1-methylethyl		<b>Value</b> 550 mg/m3	Form
eland. Occupational Exposure Linomponents  Methoxy-1-methylethyl	Туре		Form
eland. Occupational Exposure Linomponents  Methoxy-1-methylethyl	Туре	550 mg/m3	Form
eland. Occupational Exposure Linomponents  Methoxy-1-methylethyl	<b>Type</b> STEL	550 mg/m3 100 ppm	Form
eland. Occupational Exposure Linomponents  Methoxy-1-methylethylocetate (CAS 108-65-6)	Type STEL TWA	550 mg/m3 100 ppm 275 mg/m3 50 ppm	Form
eland. Occupational Exposure Licomponents  Methoxy-1-methylethyl cetate (CAS 108-65-6)  utanone oxime; ethyl ethyl ketoxime; ethyl ethyl ketone oxime (CAS	<b>Type</b> STEL	550 mg/m3 100 ppm 275 mg/m3	Form
eland. Occupational Exposure Licomponents  Methoxy-1-methylethyl cetate (CAS 108-65-6)  utanone oxime; ethyl ethyl ketoxime; ethyl ethyl ketone oxime (CAS	Type STEL TWA	550 mg/m3 100 ppm 275 mg/m3 50 ppm	Form
eland. Occupational Exposure Licomponents  Methoxy-1-methylethyl cetate (CAS 108-65-6)  utanone oxime; ethyl ethyl ketoxime; ethyl ethyl ketone oxime (CAS	Type STEL TWA	550 mg/m3 100 ppm 275 mg/m3 50 ppm 33 mg/m3	Form
eland. Occupational Exposure Licomponents  Methoxy-1-methylethyl cetate (CAS 108-65-6)  utanone oxime; ethyl ethyl ketoxime; ethyl ethyl ketone oxime (CAS	Type  STEL  TWA  STEL	550 mg/m3 100 ppm 275 mg/m3 50 ppm 33 mg/m3	Form
eland. Occupational Exposure Linomponents  Methoxy-1-methylethyl cetate (CAS 108-65-6)  utanone oxime; ethyl ethyl ketoxime; ethyl ethyl ketone oxime (CAS 3-29-7)	Type  STEL  TWA  STEL	550 mg/m3  100 ppm  275 mg/m3  50 ppm  33 mg/m3  10 ppm  10 mg/m3  3 ppm	Form
eland. Occupational Exposure Linomponents  Methoxy-1-methylethyl cetate (CAS 108-65-6)  utanone oxime; ethyl ethyl ketoxime; ethyl ethyl ketone oxime (CAS 3-29-7)	Type  STEL  TWA  STEL  TWA	550 mg/m3  100 ppm  275 mg/m3  50 ppm  33 mg/m3  10 ppm  10 mg/m3  3 ppm  240 mg/m3	Form
eland. Occupational Exposure Linomponents  Methoxy-1-methylethyl cetate (CAS 108-65-6)  utanone oxime; ethyl ethyl ketoxime; ethyl ethyl ketone oxime (CAS 6-29-7)  iaccetone alcohol (CAS 23-42-2)	Type STEL TWA STEL TWA TWA	550 mg/m3  100 ppm  275 mg/m3  50 ppm  33 mg/m3  10 ppm  10 mg/m3  3 ppm  240 mg/m3  50 ppm	Form
eland. Occupational Exposure Linomponents  Methoxy-1-methylethyl cetate (CAS 108-65-6)  utanone oxime; ethyl ethyl ketoxime; ethyl ethyl ketone oxime (CAS 6-29-7)  diacetone alcohol (CAS 23-42-2)  thylbenzene (CAS	Type  STEL  TWA  STEL  TWA	550 mg/m3  100 ppm  275 mg/m3  50 ppm  33 mg/m3  10 ppm  10 mg/m3  3 ppm  240 mg/m3  50 ppm  884 mg/m3	Form
eland. Occupational Exposure Linomponents  Methoxy-1-methylethylocetate (CAS 108-65-6)  utanone oxime; ethylethyl ketoxime; ethylethyl ketone oxime (CAS 6-29-7)  iaccetone alcohol (CAS 23-42-2)  thylbenzene (CAS	Type STEL  TWA STEL  TWA  TWA  STEL	550 mg/m3  100 ppm  275 mg/m3  50 ppm  33 mg/m3  10 ppm  10 mg/m3  3 ppm  240 mg/m3  50 ppm  884 mg/m3  200 ppm	Form
eland. Occupational Exposure Linomponents  Methoxy-1-methylethyl cetate (CAS 108-65-6)  utanone oxime; ethyl ethyl ketoxime; ethyl ethyl ketone oxime (CAS 6-29-7)  iacetone alcohol (CAS 23-42-2)  thylbenzene (CAS	Type STEL TWA STEL TWA TWA	550 mg/m3  100 ppm  275 mg/m3  50 ppm  33 mg/m3  10 ppm  10 mg/m3  3 ppm  240 mg/m3  50 ppm  884 mg/m3  200 ppm  442 mg/m3	Form
eland. Occupational Exposure Linomponents  Methoxy-1-methylethyl cetate (CAS 108-65-6)  utanone oxime; ethyl ethyl ketoxime; ethyl ketoyl ketone oxime (CAS 6-29-7)  iacetone alcohol (CAS 23-42-2)  thylbenzene (CAS 00-41-4)	Type  STEL  TWA  STEL  TWA  TWA  STEL  TWA	550 mg/m3  100 ppm  275 mg/m3  50 ppm  33 mg/m3  10 ppm  10 mg/m3  3 ppm  240 mg/m3  50 ppm  884 mg/m3  200 ppm  442 mg/m3  100 ppm	
eland. Occupational Exposure Linomponents  Methoxy-1-methylethyl cetate (CAS 108-65-6)  utanone oxime; ethyl ethyl ketoxime; ethyl ketoyl ketone oxime (CAS 6-29-7)  iacetone alcohol (CAS 23-42-2)  thylbenzene (CAS 00-41-4)	Type STEL  TWA STEL  TWA  TWA  STEL	550 mg/m3  100 ppm  275 mg/m3  50 ppm  33 mg/m3  10 ppm  10 mg/m3  3 ppm  240 mg/m3  50 ppm  884 mg/m3  200 ppm  442 mg/m3	Form  Respirable dust.
eland. Occupational Exposure Linomponents  Methoxy-1-methylethyl cetate (CAS 108-65-6)  utanone oxime; ethyl ethyl ketoxime; ethyl ethyl ketone oxime (CAS 3-29-7)  iacetone alcohol (CAS 23-42-2)  thylbenzene (CAS 00-41-4)	Type  STEL  TWA  STEL  TWA  TWA  STEL  TWA	550 mg/m3  100 ppm  275 mg/m3  50 ppm  33 mg/m3  10 ppm  10 mg/m3  3 ppm  240 mg/m3  50 ppm  884 mg/m3  200 ppm  442 mg/m3  100 ppm	

Components	Туре	Value	Form
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter = 10 µm] (CAS 13463-67-7)	TWA	4 mg/m3	Respirable dust.
		10 mg/m3	Total inhalable dust
Italy. Occupational Exposure Limits Components	Туре	Value	Form
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	STEL	550 mg/m3	
		100 ppm	
	TWA	275 mg/m3	
		50 ppm	
Diacetone alcohol (CAS 123-42-2)	TWA	50 ppm	
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
		100 ppm	
oxo-oxoalumanyloxy-[oxo(o xoalumanyloxy)silyl]oxysilan e;dihydrate (CAS 1332-58-7)	TWA	2 mg/m3	Respirable fraction.
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter = 10 µm] (CAS 13463-67-7)	TWA	10 mg/m3	
Latvia. OELs. Occupational exposure Components	limit values of chemical s	substances in work environme Value	ent
2-Methoxy-1-methylethyl	STEL	550 mg/m3	
acetate (CAS 108-65-6)			
acetate (CAS 108-65-6)		100 ppm	
acetate (CAS 108-65-6)	TWA	275 mg/m3	
		275 mg/m3 50 ppm	
Aluminium hydroxide (CAS	TWA	275 mg/m3	
Aluminium hydroxide (CAS 21645-51-2) Ethylbenzene (CAS		275 mg/m3 50 ppm	
Aluminium hydroxide (CAS 21645-51-2) Ethylbenzene (CAS	TWA	275 mg/m3 50 ppm 6 mg/m3	
Aluminium hydroxide (CAS 21645-51-2) Ethylbenzene (CAS	TWA	275 mg/m3 50 ppm 6 mg/m3 884 mg/m3	
Aluminium hydroxide (CAS 21645-51-2) Ethylbenzene (CAS	TWA STEL	275 mg/m3 50 ppm 6 mg/m3 884 mg/m3 200 ppm	
Aluminium hydroxide (CAS 21645-51-2) Ethylbenzene (CAS 100-41-4) Silica, amorphous (CAS	TWA STEL	275 mg/m3 50 ppm 6 mg/m3 884 mg/m3 200 ppm 442 mg/m3	
Aluminium hydroxide (CAS 21645-51-2) Ethylbenzene (CAS 100-41-4)  Silica, amorphous (CAS 7631-86-9) titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter = 10	TWA STEL TWA	275 mg/m3 50 ppm 6 mg/m3 884 mg/m3 200 ppm 442 mg/m3 100 ppm	
Aluminium hydroxide (CAS 21645-51-2) Ethylbenzene (CAS 100-41-4)  Silica, amorphous (CAS 7631-86-9) titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter = 10 μm] (CAS 13463-67-7)	TWA STEL TWA TWA TWA	275 mg/m3 50 ppm 6 mg/m3 884 mg/m3 200 ppm 442 mg/m3 100 ppm 1 mg/m3 10 mg/m3	
Aluminium hydroxide (CAS 21645-51-2) Ethylbenzene (CAS 100-41-4)  Silica, amorphous (CAS 7631-86-9) titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter = 10 μm] (CAS 13463-67-7)  Lithuania. OELs. Limit Values for Che	TWA STEL TWA TWA TWA	275 mg/m3 50 ppm 6 mg/m3 884 mg/m3 200 ppm 442 mg/m3 100 ppm 1 mg/m3 10 mg/m3	
Aluminium hydroxide (CAS 21645-51-2) Ethylbenzene (CAS 100-41-4)  Silica, amorphous (CAS 7631-86-9) titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter = 10 μm] (CAS 13463-67-7)  Lithuania. OELs. Limit Values for Che Components  2-Methoxy-1-methylethyl	TWA STEL  TWA TWA TWA TWA	275 mg/m3 50 ppm 6 mg/m3 884 mg/m3 200 ppm 442 mg/m3 100 ppm 1 mg/m3 10 mg/m3	
Aluminium hydroxide (CAS 21645-51-2) Ethylbenzene (CAS 100-41-4)  Silica, amorphous (CAS 7631-86-9) titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter = 10 μm] (CAS 13463-67-7)  Lithuania. OELs. Limit Values for Che Components  2-Methoxy-1-methylethyl	TWA STEL  TWA TWA TWA  Mical Substances, Generatype STEL	275 mg/m3 50 ppm 6 mg/m3 884 mg/m3 200 ppm 442 mg/m3 100 ppm 1 mg/m3 10 mg/m3  ral Requirements Value  400 mg/m3 75 ppm	
Aluminium hydroxide (CAS 21645-51-2) Ethylbenzene (CAS 100-41-4)  Silica, amorphous (CAS 7631-86-9) titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter = 10	TWA STEL  TWA TWA TWA TWA TWA	275 mg/m3 50 ppm 6 mg/m3 884 mg/m3 200 ppm 442 mg/m3 100 ppm 1 mg/m3 10 mg/m3  ral Requirements Value  400 mg/m3 75 ppm 250 mg/m3	
Aluminium hydroxide (CAS 21645-51-2) Ethylbenzene (CAS 100-41-4)  Silica, amorphous (CAS 7631-86-9) titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter = 10 μm] (CAS 13463-67-7)  Lithuania. OELs. Limit Values for Che Components  2-Methoxy-1-methylethyl	TWA STEL  TWA TWA TWA  Mical Substances, Generatype STEL	275 mg/m3 50 ppm 6 mg/m3 884 mg/m3 200 ppm 442 mg/m3 100 ppm 1 mg/m3 10 mg/m3  ral Requirements Value  400 mg/m3 75 ppm	

Lithuania. OELs. Limit Values for Components	Chemical Substances, Gene Type	ral Requirements Value
Diacetone alcohol (CAS 123-42-2)	STEL	240 mg/m3
		50 ppm
	TWA	120 mg/m3
		25 ppm
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3
		200 ppm
	TWA	442 mg/m3
		100 ppm
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter = 10 µm] (CAS 13463-67-7)	TWA	5 mg/m3
Luxembourg. Binding Occupation Components	al exposure limit values (Ani Type	nex I), Memorial A Value
2-Methoxy-1-methylethyl	STEL	550 mg/m3
acetate (CAS 108-65-6)	OTEL	ood mg/mo
		100 ppm
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3
		200 ppm
Malta. OELs. Occupational Exposi Schedules I and V)	ure Limit Values (L.N. 227. of	Occupational Health and Safety Authority Act (CAP. 424),
Components	Type	Value
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	STEL	550 mg/m3
		100 ppm
	TWA	275 mg/m3
		50 ppm
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3
		200 ppm
	TWA	442 mg/m3
		100 ppm
Netherlands. OELs (binding)		
Components	Type	Value
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	TWA	550 mg/m3
Ethylbenzene (CAS 100-41-4)	STEL	430 mg/m3
	TWA	215 mg/m3
Norway. Administrative Norms for Components	Contaminants in the Workpl Type	lace Value
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	TLV	270 mg/m3
		50 ppm
Diacetone alcohol (CAS 123-42-2)	TLV	120 mg/m3
		25 ppm
Ethylbenzene (CAS 100-41-4)	TLV	20 mg/m3
		5 nnm

5 ppm

#### Norway. Administrative Norms for Contaminants in the Workplace Components Type Value titanium dioxide [in powder form containing 1 % or TLV 5 mg/m3 more of particles with

Poland. Ordinance of the Minister of Labour and Social Policy on 6 June 2014 on the maximum permissible

concentrations and intensities of h Components	Туре	Value	Form
P-Methoxy-1-methylethyl acetate (CAS 108-65-6)	STEL	520 mg/m3	
		0 ppm	
	TWA	260 mg/m3	
		0 ppm	
Aluminium hydroxide (CAS 21645-51-2)	TWA	2,5 mg/m3	Inhalable fraction.
		1,2 mg/m3	Respirable fraction.
		0 ppm	Inhalable fraction.
		0 ppm	Respirable fraction.
arbendazim (ISO);methyl enzimidazol-2-ylcarbamate CAS 10605-21-7)	TWA	10 mg/m3	
		0 ppm	
Diacetone alcohol (CAS 23-42-2)	TWA	240 mg/m3	
		0 ppm	
thylbenzene (CAS 00-41-4)	STEL	400 mg/m3	
		0 ppm	
	TWA	200 mg/m3	
		0 ppm	
oxo-oxoalumanyloxy-[oxo(o coalumanyloxy)silyl]oxysilan e;dihydrate (CAS 1332-58-7)	TWA	10 mg/m3	Inhalable fraction.
		0 ppm	Inhalable fraction.
itanium dioxide [in powder orm containing 1 % or nore of particles with aerodynamic diameter = 10 um] (CAS 13463-67-7)	TWA	10 mg/m3	Inhalable fraction.
		0 ppm	Inhalable fraction.
Portugal. OELs. Decree-Law n. 290 Components	/2001 (Journal of the Republ Type	ic - 1 Series A, n.266) Value	
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	STEL	550 mg/m3	
,		100 ppm	
	TWA	275 mg/m3	
		50 ppm	
Ethylbenzene (CAS 00-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
		100 ppm	
Portugal. VLEs. Norm on occupation	onal exposure to chemical aç Type	gents (NP 1796) Value	Form
Diacetone alcohol (CAS 123-42-2)	TWA	50 ppm	
,	TWA	20 ppm	

aerodynamic diameter = 10 μm] (ĆAS 13463-67-7)

Components	Туре	Value	Form
oxo-oxoalumanyloxy-[oxo(o xoalumanyloxy)silyl]oxysilan e;dihydrate (CAS 1332-58-7)	TWA	2 mg/m3	Respirable fraction.
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter = 10 µm] (CAS 13463-67-7)	TWA	10 mg/m3	
Romania. OELs. Protection of wor Components	kers from exposure to chemi Type	ical agents at the workplace Value	Form
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	STEL	550 mg/m3	
		100 ppm	
	TWA	275 mg/m3	
		50 ppm	
Diacetone alcohol (CAS 123-42-2)	STEL	250 mg/m3	
		53 ppm	
	TWA	150 mg/m3	
Though a mana /OAO	OTE!	32 ppm	
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
	T\A/A	200 ppm	
	TWA	442 mg/m3	
ave avealume and ave fave/a	T\A/A	100 ppm	Desnivelle frestien
oxo-oxoalumanyloxy-[oxo(o koalumanyloxy)silyl]oxysilan e;dihydrate (CAS 1332-58-7)	TWA	2 mg/m3	Respirable fraction.
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter = 10 um] (CAS 13463-67-7)	STEL	15 mg/m3	
	TWA	10 mg/m3	
Slovakia. OELs. Regulation No. 30	0/2007 concerning protection	n of health in work with chemi	cal agents
Components	Туре	Value	Form
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	STEL	550 mg/m3	
		100 ppm	
	TWA	275 mg/m3	
		50 ppm	
Aluminium hydroxide (CAS 21645-51-2)	TWA	4 mg/m3	Inhalable fraction.
		1,5 mg/m3	Respirable fraction.
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
	T\A/A	200 ppm	
	TWA	442 mg/m3	
		100 ppm	
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter = 10 µm] (CAS 13463-67-7)	TWA	5 mg/m3	

Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)

Components Type Value Form

2-Methoxy-1-methylethyl TWA 275 mg/m3 acetate (CAS 108-65-6)

## Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)

Components	Туре	Value	Form
		50 ppm	
butanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime (CAS 96-29-7)	TWA	1 mg/m3	
		0,3 ppm	
carbendazim (ISO);methyl benzimidazol-2-ylcarbamate (CAS 10605-21-7)	TWA	10 mg/m3	Inhalable fraction.
Diacetone alcohol (CAS 123-42-2)	TWA	96 mg/m3	
		20 ppm	
Ethylbenzene (CAS 100-41-4)	TWA	442 mg/m3	
		100 ppm	
Silica, amorphous (CAS 7631-86-9)	TWA	4 mg/m3	Inhalable fraction.
Spain. Occupational Exposure Lim Components	its Type	Value	Form
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	STEL	550 mg/m3	
		100 ppm	
	TWA	275 mg/m3	
		50 ppm	
Diacetone alcohol (CAS 123-42-2)	TWA	241 mg/m3	
		50 ppm	
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	441 mg/m3	
		100 ppm	
oxo-oxoalumanyloxy-[oxo(o xoalumanyloxy)silyl]oxysilan e;dihydrate (CAS 1332-58-7)	TWA	2 mg/m3	Respirable fraction.
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter = 10 µm] (CAS 13463-67-7)	TWA	10 mg/m3	

## Sweden. OELs. Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2015:7)

Components	Туре	Value Form
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	Ceiling	550 mg/m3
		100 ppm
	TWA	275 mg/m3
		50 ppm
Diacetone alcohol (CAS 123-42-2)	STEL	240 mg/m3
		50 ppm
	TWA	120 mg/m3
		25 ppm
Ethylbenzene (CAS 100-41-4)	Ceiling	884 mg/m3
		200 ppm
	TWA	220 mg/m3
		50 ppm

titanium dioxide [in powder	TWA	5 mg/m3	Total dust.
form containing 1 % or more of particles with aerodynamic diameter = 10 um] (CAS 13463-67-7)		•	
Switzerland. SUVA Grenzwerte am Components	Arbeitsplatz Type	Value	Form
2-Methoxy-1-methylethyl	STEL	275 mg/m3	
acetate (CAS 108-65-6)		50 ppm	
	TWA	275 mg/m3	
		50 ppm	
Numinium hydroxide (CAS 11645-51-2)	TWA	3 mg/m3	Respirable fraction.
earbendazim (ISO);methyl enzimidazol-2-ylcarbamate CAS 10605-21-7)	STEL	40 mg/m3	Inhalable fraction.
,	TWA	10 mg/m3	Inhalable fraction.
Diacetone alcohol (CAS 23-42-2)	STEL	192 mg/m3	
		40 ppm	
	TWA	96 mg/m3	
		20 ppm	
ithylbenzene (CAS 00-41-4)	STEL	220 mg/m3	
		50 ppm	
	TWA	220 mg/m3	
		50 ppm	
xo-oxoalumanyloxy-[oxo(o oalumanyloxy)silyl]oxysilan ;dihydrate (CAS 1332-58-7)	TWA	3 mg/m3	Respirable fraction.
ilica, amorphous (CAS 631-86-9)	TWA	4 mg/m3	
tanium dioxide [in powder orm containing 1 % or nore of particles with erodynamic diameter = 10 m] (CAS 13463-67-7)	TWA	3 mg/m3	Respirable dust.
JK. EH40 Workplace Exposure Lin			<b>-</b>
Components	Туре	Value	Form
-Methoxy-1-methylethyl acetate (CAS 108-65-6)	STEL	548 mg/m3	
	T14.4	100 ppm	
	TWA	274 mg/m3	
Niggotono aleghal (CAC	OTF!	50 ppm	
Diacetone alcohol (CAS 23-42-2)	STEL	362 mg/m3	
	TIAIA	75 ppm	
	TWA	241 mg/m3	
thylhanzana (CAS	QTE!	50 ppm	
ithylbenzene (CAS 00-41-4)	STEL	552 mg/m3	
	TWA	125 ppm	
	IVVA	441 mg/m3 100 ppm	
oxo-oxoalumanyloxy-[oxo(o koalumanyloxy)silyl]oxysilan	TWA	2 mg/m3	Respirable dust.

UK. EH40 Workplace Exposure Limits (WELs)					
Components	Туре	Value	Form		
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter = 10 µm] (CAS 13463-67-7)	TWA	4 mg/m3	Respirable.		
		10 mg/m3	Inhalable		

Components	Type	Value
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	STEL	550 mg/m3
		100 ppm
	TWA	275 mg/m3
		50 ppm
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3
		200 ppm
	TWA	442 mg/m3
		100 ppm

#### **Biological limit values**

Croatia. BLV. Dangerous Substance Exposure Limit Values at Workplace, Annexes 4 (as amended) **Specimen** Components Value Determinant **Sampling Time** Ethylbenzene (CAS Mandelic acid Creatinine in 1,5 g/g 100-41-4) urine 1,5 mg/l Ethylbenzene Blood 1,12 mol/mol Mandelic acid Creatinine in urine Blood 14,1 umol/l Ethylbenzene

Czech Republic. Limit Values for Indictators of Biological Exposure Tests in Urine and Blood, Annex 2, Tables 1 and 2, Government Decree 432/2003 Sb.

Components	Value	Determinant	Specimen	Sampling Time
Ethylbenzene (CAS 100-41-4)	1100 µmol/mmol	Mandelic acid	Creatinine in urine	*
	1500 mg/g	Mandelic acid	Creatinine in urine	*

<sup>\* -</sup> For sampling details, please see the source document.

Finland. HTP-arvot, App 2., Biological Limit Values, (BRA/BGV) , Social Affairs and Ministry of Health				
Components	Value	Determinant	Specimen	Sampling Time
Ethylbenzene (CAS	5,2 mmol/l	Mandelic acid	Urine	*

<sup>\* -</sup> For sampling details, please see the source document.

France. Biological indicators of exposure (IBE) (National Institute for Research and Security (INRS, ND 2065)

Components	Value	Determinant	Specimen	Sampling Time	
Ethylbenzene (CAS 100-41-4)	1500 mg/g	Acide mandélique	Creatinine in urine	*	
* For compling details	places soo the source	o document			

<sup>\* -</sup> For sampling details, please see the source document.

#### Germany. TRGS 903, BAT List (Biological Limit Values)

Components	Value	Determinant	Specimen	Sampling Time
Ethylbenzene (CAS 100-41-4)	250 mg/g	Mandelsäure plus Phenylglyoxyls äure	Creatinine in urine	*

<sup>\* -</sup> For sampling details, please see the source document.

Hungary. Chemical Safety at Workplace Ordinance Joint Decree No. 25/2000 (Annex 2): Permissible limit values of

biological exposure (effect) indices						
Components	Value	Determinant	Specimen	Sampling Time		
Ethylbenzene (CAS 100-41-4)	1110 µmol/mmol	mandelic acid	Creatinine in urine	*		

<sup>\* -</sup> For sampling details, please see the source document.

#### Hungary. Chemical Safety at Workplace Ordinance Joint Decree No. 25/2000 (Annex 2): Permissible limit values of biological exposure (effect) indices

Components	Value	Determinant	Specimen	Sampling Time	
•	1500 mg/g	mandelic acid	Creatinine in	*	
			urine		

<sup>\* -</sup> For sampling details, please see the source document.

#### Slovakia. BLVs (Biological Limit Value). Regulation no. 355/2006 concerning protection of workers exposed to chemical agents, Annex 2

Components	Value	Determinant	Specimen	Sampling Time	
Ethylbenzene (CAS 100-41-4)	8,03 mg/g	2 and 4-ethylphenol	Creatinine in urine	*	
	12 mg/l	2 and 4-ethylphenol	Urine	*	

<sup>\* -</sup> For sampling details, please see the source document.

Spain. Biological Limit Values (VLBs), Occupational Exposure Limits for Chemical Agents, Table 4					
Components	Value	Determinant	Specimen	Sampling Time	
Ethylbenzene (CAS 100-41-4)	700 mg/g	Suma del acido mandélico y el ácido fenilglioxílico	Creatinine in urine	*	

<sup>\* -</sup> For sampling details, please see the source document.

Switzerland. BAT-Werte (Biological Limit Values in the Workplace as per SUVA)					
Components	Value	Determinant	Specimen	Sampling Time	
Aluminium hydroxide (CAS 21645-51-2)	50 μg/g	Aluminium	Creatinine in urine	*	
Ethylbenzene (CAS 100-41-4)	600 mg/g	Mandelsäure plus Phenylglyoxyls äure	Creatinine in urine	*	

<sup>\* -</sup> For sampling details, please see the source document.

Recommended monitoring procedures

Follow standard monitoring procedures.

Derived no effect levels

(DNELs)

Not available.

Predicted no effect Not available.

concentrations (PNECs)

#### **Exposure guidelines**

Austria	MAK:	Skin	desian	ation

2-Methoxy-1-methylethyl acetate (CAS 108-65-6) Diacetone alcohol (CAS 123-42-2) Ethylbenzene (CAS 100-41-4)	Can be absorbed through the skin. Can be absorbed through the skin. Can be absorbed through the skin.
Belgium OELs: Skin designation	
2-Methoxy-1-methylethyl acetate (CAS 108-65-6) Ethylbenzene (CAS 100-41-4) Bulgaria OELs: Skin designation	Can be absorbed through the skin. Can be absorbed through the skin.
	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2-Methoxy-1-methylethyl acetate (CAS 108-65-6) Ethylbenzene (CAS 100-41-4)	Can be absorbed through the skin.  Can be absorbed through the skin.
Croatia ELVs: Skin designation	
2-Methoxy-1-methylethyl acetate (CAS 108-65-6) Ethylbenzene (CAS 100-41-4)	Can be absorbed through the skin. Can be absorbed through the skin.
Czech Republic PELs: Skin designation	
2-Methoxy-1-methylethyl acetate (CAS 108-65-6) Ethylbenzene (CAS 100-41-4)	Can be absorbed through the skin. Can be absorbed through the skin.

Denmark GV: Skin designation

2-Methoxy-1-methylethyl acetate (CAS 108-65-6) Can be absorbed through the skin. Ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. Estonia OELs: Skin designation

2-Methoxy-1-methylethyl acetate (CAS 108-65-6) Can be absorbed through the skin. Ethylbenzene (CAS 100-41-4) Can be absorbed through the skin.

**EU Exposure Limit Values: Skin designation** 

2-Methoxy-1-methylethyl acetate (CAS 108-65-6) Can be absorbed through the skin. Can be absorbed through the skin. Ethylbenzene (CAS 100-41-4)

Finland Exposure Limit Values: Skin designation

2-Methoxy-1-methylethyl acetate (CAS 108-65-6) Can be absorbed through the skin.

Ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. France INRS: Skin designation 2-Methoxy-1-methylethyl acetate (CAS 108-65-6) Can be absorbed through the skin. Ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. Germany DFG MAK (advisory): Skin designation butanone oxime; ethyl methyl ketoxime; ethyl methyl Can be absorbed through the skin. ketone oxime (CAS 96-29-7) Diacetone alcohol (CAS 123-42-2) Can be absorbed through the skin. Ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. Germany TRGS 900 Limit Values: Skin designation butanone oxime: ethyl methyl ketoxime: ethyl methyl Can be absorbed through the skin. ketone oxime (CAS 96-29-7) Diacetone alcohol (CAS 123-42-2) Can be absorbed through the skin. Can be absorbed through the skin. Ethylbenzene (CAS 100-41-4) Greece OEL: Skin designation 2-Methoxy-1-methylethyl acetate (CAS 108-65-6) Can be absorbed through the skin. **Hungary OELs: Skin designation** Ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. Iceland OELs: Skin designation 2-Methoxy-1-methylethyl acetate (CAS 108-65-6) Can be absorbed through the skin. Ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. Ireland Exposure Limit Values: Skin designation 2-Methoxy-1-methylethyl acetate (CAS 108-65-6) Can be absorbed through the skin. Ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. Italy OELs: Skin designation 2-Methoxy-1-methylethyl acetate (CAS 108-65-6) Danger of cutaneous absorption Ethylbenzene (CAS 100-41-4) Danger of cutaneous absorption Latvia OELs: Skin designation 2-Methoxy-1-methylethyl acetate (CAS 108-65-6) Can be absorbed through the skin. Ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. Lithuania OELs: Skin designation 2-Methoxy-1-methylethyl acetate (CAS 108-65-6) Can be absorbed through the skin. Ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. Luxembourg OELs: Skin designation 2-Methoxy-1-methylethyl acetate (CAS 108-65-6) Can be absorbed through the skin. Ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. Malta OELs: Skin designation 2-Methoxy-1-methylethyl acetate (CAS 108-65-6) Can be absorbed through the skin. Ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. Netherlands OELs (binding): Skin designation Ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. Norway Exposure Limit Values: Skin designation 2-Methoxy-1-methylethyl acetate (CAS 108-65-6) Can be absorbed through the skin. Ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. Portugal OELs: Skin designation 2-Methoxy-1-methylethyl acetate (CAS 108-65-6) Can be absorbed through the skin. Ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. Romania OELs: Skin designation 2-Methoxy-1-methylethyl acetate (CAS 108-65-6) Can be absorbed through the skin. Ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. Slovakia OELs: Skin designation 2-Methoxy-1-methylethyl acetate (CAS 108-65-6) Can be absorbed through the skin. Ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia) 2-Methoxy-1-methylethyl acetate (CAS 108-65-6) Can be absorbed through the skin. butanone oxime; ethyl methyl ketoxime; ethyl methyl Can be absorbed through the skin. ketone oxime (CAS 96-29-7) Diacetone alcohol (CAS 123-42-2) Can be absorbed through the skin. Can be absorbed through the skin. Ethylbenzene (CAS 100-41-4) Spain OELs: Skin designation 2-Methoxy-1-methylethyl acetate (CAS 108-65-6) Can be absorbed through the skin. Ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. Sweden Threshold Limit Values: Skin designation Can be absorbed through the skin. 2-Methoxy-1-methylethyl acetate (CAS 108-65-6) Ethylbenzene (CAS 100-41-4) Can be absorbed through the skin.

#### Switzerland SUVA Limit Values at the Workplace: Skin designation

Diacetone alcohol (CAS 123-42-2) Can be absorbed through the skin. Ethylbenzene (CAS 100-41-4) Can be absorbed through the skin.

UK EH40 WEL: Skin designation

2-Methoxy-1-methylethyl acetate (CAS 108-65-6) Can be absorbed through the skin. Ethylbenzene (CAS 100-41-4) Can be absorbed through the skin.

8.2. Exposure controls

Appropriate engineering

controls

Explosion-proof general and local exhaust ventilation. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

Individual protection measures, such as personal protective equipment

Use personal protective equipment as required. Personal protection equipment should be chosen **General information** 

according to the CEN standards and in discussion with the supplier of the personal protective

equipment.

Eve/face protection Chemical respirator with organic vapour cartridge and full facepiece.

Skin protection

- Hand protection Wear appropriate chemical resistant gloves.

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. - Other

Respiratory protection Chemical respirator with organic vapour cartridge and full facepiece.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

Observe any medical surveillance requirements. When using do not smoke. Always observe good Hygiene measures

personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

**Environmental exposure** 

controls

Inform appropriate managerial or supervisory personnel of all environmental releases. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable

levels

#### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state Liquid. Liquid. **Form** Pink. Colour Odour Mild.

Melting point/freezing point Not available.

Boiling point or initial boiling

point and boiling range

136,11 - 251,67 °C (277 - 485 °F)

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) 1,1 % Explosive limit - upper

(%)

4,8 - 40,6 °C (40,6 - 105,0 °F) Flash point

Not available. Auto-ignition temperature **Decomposition temperature** Not available. Not available.

Solubility(ies)

Solubility (water) Negligible Not available. Partition coefficient

(n-octanol/water)

Not available. Vapour pressure > 1 (air = 1)Vapour density > 1 @ 70°C Relative density Not available. Particle characteristics

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No relevant additional information available.

#### 9.2.2. Other safety characteristics

**Evaporation rate** < 1 (BuAc = 1)**Explosive properties** Not explosive. Oxidising properties Not oxidisina. VOC 30,83 %

#### **SECTION 10: Stability and reactivity**

10.1. Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability Material is stable under normal conditions.

10.3. Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the 10.4. Conditions to avoid

flash point. Contact with incompatible materials.

10.5. Incompatible materials Strong oxidising agents.

10.6. Hazardous Carbon oxides.

decomposition products

#### **SECTION 11: Toxicological information**

**General information** Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

May cause damage to organs by inhalation. Prolonged inhalation may be harmful. Inhalation

Skin contact May cause an allergic skin reaction.

Eve contact Causes serious eve damage.

Ingestion Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious

chemical pneumonia.

**Symptoms** Aspiration may cause pulmonary oedema and pneumonitis. Narcosis. Behavioural changes.

Decrease in motor functions. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

May cause an allergic skin reaction. Dermatitis. Rash.

#### 11.1. Information on toxicological effects

Acute toxicity May be fatal if swallowed and enters airways.

Components **Species Test Results** 

2-Methoxy-1-methylethyl acetate (CAS 108-65-6)

Dermal

LD50 Rat > 2000 mg/kg, 24 Hours

Oral

LD50 Rat > 5000 mg/kg

carbendazim (ISO);methyl benzimidazol-2-ylcarbamate (CAS 10605-21-7)

**Acute** 

Oral

LD50 Rat > 5000 mg/kg

Diacetone alcohol (CAS 123-42-2)

**Acute** 

Oral

LD50 Rat 3000 mg/kg

Ethylbenzene (CAS 100-41-4)

**Acute** 

Oral

3500 mg/kg LD50 Rat

solvent naphtha (petroleum), medium aliph.; Straight run kerosine [A complex combination of hydrocarbons obtained from the distillation of crude oil or natural gasoline. It consists predominantly of saturated hydrocarbons having carbon numbers predominant (CAS 64742-88-7)

**Acute** 

**Dermal** 

LD50 Rabbit > 2000 mg/kg, 24 Hours

Inhalation

Vapour

LC50 Rat > 4,5 mg/l, 4 Hours

Material name: Dykem® Cross Check™ Torque Seal® - Pink

83320 Version #: 05 Revision date: 01-April-2022 Issue date: 30-December-2020

**Test Results** Components **Species** 

Oral

LD50 Rat > 5000 ma/ka

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eve damage/eve

Causes serious eye damage.

irritation

Respiratory sensitisation Not a respiratory sensitiser.

Skin sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity May cause genetic defects.

Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)

carbendazim (ISO);methyl benzimidazol-2-ylcarbamate Mutagenic, Category 1B.

(CAS 10605-21-7)

May cause cancer. Carcinogenicity

**ACGIH Carcinogens** 

Ethylbenzene (CAS 100-41-4) Confirmed animal carcinogen with unknown relevance to humans.

**A3** 

Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)

carbendazim (ISO);methyl benzimidazol-2-ylcarbamate (CAS 10605-21-7)

IARC Monographs. Overall Evaluation of Carcinogenicity

Ethylbenzene (CAS 100-41-4) 2B Possibly carcinogenic to humans.

Slovenia, OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)

butanone oxime; ethyl methyl ketoxime; ethyl methyl

Carcinogenic, Category 2.

ketone oxime (CAS 96-29-7)

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)

carbendazim (ISO):methyl benzimidazol-2-vlcarbamate

(CAS 10605-21-7)

Toxic for reproduction. Category 1B.

Specific target organ toxicity single exposure

Causes damage to organs.

Specific target organ toxicity -

repeated exposure

Mixture versus substance

information

Aspiration hazard

No information available.

11.2. Information on other hazards

**Endocrine disrupting** 

properties

The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU)

Causes damage to organs (central nervous system) through prolonged or repeated exposure.

2018/605 at levels of 0.1% or higher.

May be fatal if swallowed and enters airways.

Symptoms may be delayed. Other information

**SECTION 12: Ecological information** 

Harmful to aquatic life with long lasting effects. Based on available data, the classification criteria 12.1. Toxicity

are not met for hazardous to the aquatic environment, acute hazard.

Components

butanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime (CAS 96-29-7)

Aquatic

Acute

LC50 Fish Fathead minnow (Pimephales promelas) >= 777 - <= 914 mg/l, 96 hours

carbendazim (ISO);methyl benzimidazol-2-ylcarbamate (CAS 10605-21-7)

Aquatic

Acute

Fish LC50 Channel catfish (Ictalurus punctatus) >= 0,008 - <= 0,013 mg/l, 96 hours

Diacetone alcohol (CAS 123-42-2)

Aquatic

Acute

Fish LC50 Bluegill (Lepomis macrochirus) 420 mg/l, 96 hours

Material name: Dykem® Cross Check™ Torque Seal® - Pink 83320 Version #: 05 Revision date: 01-April-2022 Issue date: 30-December-2020 Components Species Test Results

Ethylbenzene (CAS 100-41-4)

Aquatic Acute

Crustacea EC50 Water flea (Daphnia magna) >= 1,37 - <= 4,4 mg/l, 48 hours
Fish LC50 Atlantic silverside (Menidia menidia) >= 4.4 - <= 5.7 mg/l, 96 hours

12.2. Persistence and

No data is available on the degradability of any ingredients in the mixture.

degradability

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

carbendazim (ISO);methyl benzimidazol-2-ylcarbamate 1,52
Diacetone alcohol -0,098
Ethylbenzene 3,15

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil Not established.

12.5. Results of PBT and vPvB assessment

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.

12.6. Endocrine disrupting

properties

The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU)

2018/605 at levels of 0.1% or higher.

**12.7. Other adverse effects** The product contains volatile organic compounds which have a photochemical ozone creation

potential.

12.8. Additional information

Estonia Dangerous substances in soil Data

Ethylbenzene (CAS 100-41-4)

ETHYLBENZENE 0,1 mg/kg

ETHYLBENZENE 5 mg/kg

ETHYLBENZENE 50 mg/kg

**SECTION 13: Disposal considerations** 

13.1. Waste treatment methods

**Residual waste** Dispose of in accordance with local regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

EU waste code The Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Disposal methods/information Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

**Special precautions**Dispose in accordance with all applicable regulations.

**SECTION 14: Transport information** 

**ADR** 

**14.1. UN number** UN1263 **14.2. UN proper shipping** Paint

name

14.3. Transport hazard class(es)

Class 3
Subsidiary risk Label(s) 3
Hazard No. (ADR) 30
Tunnel restriction code D/E
14.4. Packing group III

14.5. Environmental hazards No.

14.5. Environmental mazarus

14.6. Special precautions

Read safety instructions, SDS and emergency procedures before handling.

for user

**14.1. UN number** UN1263 **14.2. UN proper shipping** Paint

name

#### 14.3. Transport hazard class(es)

Class 3
Subsidiary risk Label(s) 3
14.4. Packing group III
14.5. Environmental hazards No.

**14.6. Special precautions** Read safety instructions, SDS and emergency procedures before handling.

for user

#### ADN

**14.1. UN number** UN1263 **14.2. UN proper shipping** Paint

name

#### 14.3. Transport hazard class(es)

Class 3
Subsidiary risk Label(s) 3
14.4. Packing group III
14.5. Environmental hazards No.

**14.6. Special precautions** Read safety instructions, SDS and emergency procedures before handling.

for user

#### **IATA**

**14.1. UN number** UN1263 **14.2. UN proper shipping** Paint

name

#### 14.3. Transport hazard class(es)

Class 3
Subsidiary risk 14.4. Packing group III
14.5. Environmental hazards No.
ERG Code 3L

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

**14.1. UN number** UN1263 **14.2. UN proper shipping** PAINT

name

#### 14.3. Transport hazard class(es)

Class 3
Subsidiary risk 
14.4. Packing group III

14.5. Environmental hazards
Marine pollutant No.

EmS F-E, S-E

**14.6. Special precautions** Read safety instructions, SDS and emergency procedures before handling.

for user

14.7. Maritime transport in bulk Not applicable.

according to IMO instruments

ADN; ADR; IATA; IMDG; RID



#### **SECTION 15: Regulatory information**

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

#### **EU** regulations

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

EU Regulation 648/2004. Annex VII. Content Labeling for Detergents

Not listed.

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended carbendazim (ISO):methyl benzimidazol-2-ylcarbamate (CAS 10605-21-7)

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Ethylbenzene (CAS 100-41-4)

#### **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

butanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime (CAS 96-29-7) carbendazim (ISO);methyl benzimidazol-2-ylcarbamate (CAS 10605-21-7)

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

butanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime (CAS 96-29-7) carbendazim (ISO);methyl benzimidazol-2-ylcarbamate (CAS 10605-21-7)

#### Other EU regulations

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

2-Methoxy-1-methylethyl acetate (CAS 108-65-6)

butanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime (CAS 96-29-7)

carbendazim (ISO);methyl benzimidazol-2-ylcarbamate (CAS 10605-21-7)

Ethylbenzene (CAS 100-41-4)

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 According to Directive 92/85/EEC as amended, pregnant women should not work with the product,

if there is the least risk of exposure.

Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work, as amended Follow national regulation on the protection of workers from the risks of exposure to carcinogens and mutagens at work, in accordance with Directive 2004/37/EC, as amended. Follow national regulation on the protection of workers from the risks of exposure to carcinogens and mutagens at work, in

accordance with Directive 2004/37/EC.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

#### **SECTION 16: Other information**

#### List of abbreviations

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.

CAS: Chemical Abstract Service.

CEN: European Committee for Standardization. IATA: International Air Transport Association.

IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous

Chemicals in Bulk.

IMDG: International Maritime Dangerous Goods.

MARPOL: International Convention for the Prevention of Pollution from Ships.

PBT: Persistent, bioaccumulative and toxic.

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

vPvB: Very persistent and very bioaccumulative.

References Not available.

Information on evaluation method leading to the classification of mixture

Full text of any H-statements not written out in full under Sections 2 to 15 The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H336 May cause drowsiness or dizziness.

H340 May cause genetic defects.

H350 May cause cancer.

H360FD May damage fertility. May damage the unborn child.

H370 Causes damage to organs.

H372 Causes damage to organs through prolonged or repeated exposure.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

This document has undergone significant changes and should be reviewed in its entirety.

Follow training instructions when handling this material.

Revision information Training information Disclaimer

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