SAFETY DATA SHEET



Version #: 02

Issue date: 11-November-2022 Revision date: 11-October-2023 Supersedes date: 11-November-2022

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

1.1. Product identifier

Trade name or designation

STEEL-IT 2213 Epoxy Ester Precoat

of the mixture

Registration number -

Synonyms None

Product code FGPR2213P (pint), FGPR2213Q (quart), FGPR2213G (gallon), FGPR2213-5G (5-gallon pail)

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

Identified uses Paint / Industrial coating (precoat).

Category: Pigmented metallic coating.

Uses advised against Uses other than the recommended use.

1.3. Details of the supplier of the safety data sheet

Manufacturer Stainless Steel Coatings, Inc.

Address 835 Sterling Road, Lancaster MA 01523-2915, USA

 Telephone
 +1 (978) 365-9828

 E-mail
 sds@STEEL-IT.com

Supplier HM Industrieservice GmbH

Address Großer Sand 3

76698 Ubstadt-Weiher, Germany

 Telephone
 +49 7251 44127-0

 Fax
 +49 7251 44127-29

 E-mail
 info@hm-industrie.de

 Website
 www.hm-industrie.de

1.4. Emergency telephone

number

CHEMTREC:

+1-703-527-3887 (International)

General in EU 112 (Available 24 hours a day. SDS/Product information may not be available for

the Emergency Service.)

Austria National Poisons Information Centre

+431 406 4343 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Belgium National Poisons

Control Centre

070 245 245 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Bulgaria National

Toxicological Information

Centre

+359 2 9154 233 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Croatia Poisons Information Centre

+385 1 2348 342 (Hours of operation not provided. SDS/Product information may

not be available for the Emergency Service.)

Cyprus Poison Centre 1401 (Available 24 hours a day. SDS/Product information may not be available

for the Emergency Service.)

Czech Republic National Poisons Information

Centre

+420 224 919 293, or +420 224 915 402 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)

Denmark National Poisons

Control Centre

+45 82 12 12 12 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

16662 or abroad: (+372) 626 9390 (Monday 9:00AM to Saturday 9:00AM (closed **Estonia National Poisons** on Sundays and on national holidays). SDS/Product information may not be **Information Centre** available for the Emergency Service.)

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800 250 250

Finland National Poison (09) 471 977 (direct) or (09) 4711 (exchange) (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.) **Information Centre**

France National Poisons ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (Available 24 hours a day. **Control Centre** SDS/Product information may not be available for the Emergency Service.)

(0030) 2107793777 (Available 24 hours a day. SDS/Product information may not **Greece Poison Information** be available for the Emergency Service.) Centre telephone number

available for the Emergency Service.) **Emergency Phone Number** (+354) 543 2222 (Available 24 hours a day. SDS/Product information may not be **Iceland Poison Centre**

+36-80-201-199 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

+371 67042473 (Available 24 hours a day. SDS/Product information may not be **Latvia Poison and Drug** available for the Emergency Service.) **Information Centre**

Lithuania Neatidėliotina +370 5 236 20 52 or +37068753378 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.) informacija apsinuodijus

Malta Accident and 2545 4030 (Hours of operation not provided. SDS/Product information may not be **Emergency Department** available for the Emergency Service.) NVIC: +31 (0)88 755 8000 (Only for the purpose of informing medical personnel **Netherlands National**

Poisons Information in cases of acute intoxications) Centre (NVIC)

22 59 13 00 (Available 24 hours a day. SDS/Product information may not be **Norway Norwegian Poison** available for the Emergency Service.) **Information Centre**

Portugal Poison Centre Romania Biroul RSI si 021.318.36.06 (Available 8:00AM-3:00PM. SDS/Product information may not be

available for the Emergency Service.) Informare Toxicologica +421 2 5477 4166 (Available 24 hours a day. SDS/Product information may not **Slovakia National** be available for the Emergency Service.) **Toxicological Information**

Centre + 34 91 562 04 20 (Available 24 hours a day. SDS/Product information may not **Spain Toxicology** Information Service be available for the Emergency Service.)

Sweden National Poison 112 - and ask for Poison Information (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.) Information Centre

145 (Available 24 hours a day. SDS/Product information may not be available for **Switzerland Tox Info** the Emergency Service.) Suisse

Ireland National Poisons 353 (1) 809 2566 Healthcare Professionals: 24 hours, 7 days a week **Information Centre**

SECTION 2: Hazards identification

Hungary National

Latvia Emergency medical

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 Category 3 H226 - Flammable liquid and

Health hazards

Skin sensitisation Category 1 H317 - May cause an allergic skin reaction.

Carcinogenicity Category 2 H351 - Suspected of causing

cancer.

Reproductive toxicity (inhalation) Category 2 H361 - Suspected of damaging fertility or the unborn child by

inhalation.

vapour.

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Specific target organ toxicity - repeated exposure (inhalation)

Category 2 (respiratory tract)

H373 - May cause damage to organs (respiratory tract) through prolonged or repeated exposure by inhalation.

Environmental hazards

Hazardous to the aquatic environment, long-term aquatic hazard

Category 2

H411 - Toxic to aquatic life with long lasting effects.

2.2. Label elements

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

Contains: Benzene, 1-chloro-4-(trifluoromethyl)-, Nickel, Talc

Hazard pictograms



Signal word Danger

Hazard statements

H226 Flammable liquid and vapour.
H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer.

H361 Suspected of damaging fertility or the unborn child by inhalation.

H373 May cause damage to organs (respiratory tract) through prolonged or repeated exposure by

inhalation.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

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

P260 Do not breathe mist/vapours/spray. P273 Avoid release to the environment.

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

Response

P308 + P313 IF exposed or concerned: Get medical advice/attention.

Storage

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

Disposal Not assigned.

Supplemental information on

the label

None.

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.

The mixture contains substance(s) in the list established in accordance with REACH Article 59(1)

for having endocrine disrupting properties.

The mixture contains substance(s) considered to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or

Commission Regulation (EU) 2018/605.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	<u></u> %	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Benzene, 1-chloro-4-(trifluorom	ethyl)- 30 - 40	98-56-6 202-681-1	-	-	
Classific		3;H226, Skin Sens. ´ nronic 2;H411	1B;H317, Carc. 2;H351, Repr	. 2;H361,	
Iron oxide	5 - 10	1309-37-1 215-168-2	-	-	
Classific	cation: -				
Talc	5 - 10	14807-96-6 238-877-9	-	-	

Classification: STOT RE 1;H372

Chemical name tert-Butyl acetate		540-88-5	REACH Registration I	No. Index No. 607-026-00-7	Notes
ton Butyr acctate	0 .0	208-760-7		00. 020 00 .	
Classifica	t ion: Flam. Liq. 2 3;H335;H3		;H332;(ATE: 11 mg/l), S	TOT SE	
Supplemental Ha Stateme					
trizinc bis(orthophosphate)	1 - 5	7779-90-0 231-944-3	-	030-011-00-6	
Classifica	ition: Aquatic Ac	ute 1;H400, Aquatic (Chronic 1;H410		
Chromium	< 2	7440-47-3 231-157-5	-	-	#
Classifica	ition: -				
Zinc oxide	< 2	1314-13-2 215-222-5	-	030-013-00-7	
Classifica	ition: Aquatic Ac	ute 1;H400, Aquatic (Chronic 1;H410		
Nickel	< 2	7440-02-0 231-111-4	-	028-002-01-4	
Classifica	tion: Skin Sens.	1;H317, Carc. 2;H35	1, STOT RE 1;H372		
Xylene	< 2	1330-20-7 215-535-7	-	601-022-00-9	#
Classifica	4;H332;(AT		H312;(ATE: 1100 mg/k . 2;H315, Eye Irrit. 2;H3 , Asp. Tox. 1;H304		
Ethylbenzene	< 1	100-41-4 202-849-4	-	601-023-00-4	#
Classifica		2;H225, Acute Tox. 4 p. Tox. 1;H304, Aqua	;H332;(ATE: 17,4 mg/l), atic Chronic 3;H412	STOT RE	
Copper	< 0,1	7440-50-8 231-159-6	-	029-024-00-X	ED
Classifies	otion: Aquatia Aq		quatic Chronic 1;H410(N	1-10 \	

List of abbreviations and symbols that may be used above

#: This substance has been assigned Union workplace exposure limit(s).

ATE: Acute toxicity estimate.

ED: Endocrine disruptor

Composition comments

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

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. Components not listed are either non-hazardous or are below reportable limits.

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. Oxygen or artificial respiration if needed. Call a physician if symptoms develop or

persist.

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. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

4.2. Most important symptoms Direct contact with eyes may cause temporary irritation. Mild skin irritation. May cause an allergic

and effects, both acute and delayed

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skin reaction. Dermatitis. Rash. Prolonged exposure may cause chronic effects.

SDS EU

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. 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 such as: Carbon oxides. Aldehydes. Chlorine compounds. Fluorine compounds. Fumes of metal oxides.

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. Cool containers exposed to flames with water until well after the fire is out. Prevent runoff from fire control or dilution from entering streams, sewers or drinking water supply.

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

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/spray. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

For emergency responders

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist/vapours/spray. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained.

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.

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. Retain and dispose of contaminated wash water.

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

Never return spills to original containers for re-use.

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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/spray. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Persons susceptible to allergic reactions should not handle this product. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only in well-ventilated areas. 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 and sources of ignition. 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).

TRGS 510 storage class: 3.

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

ANNEX 1, PART 1 Categories of dangerous substances

Hazard categories in accordance with Regulation (EC) No 1272/2008

- P5a, b or c FLAMMABLE LIQUIDS (Lower-tier requirements = 50 tonnes; Upper-tier requirements = 200 tonnes)
- requirements = 200 tonnes)
- E2 Hazardous to the Aquatic Environment Chronic (Lower-tier requirements = 200 tonnes; Upper-tier requirements = 500 tonnes)

7.3. Specific end use(s)

Paint / Industrial coating (topcoat). Category: Pigmented metallic coating.

Observe industrial sector guidance on best practices.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Austria. MAK List Components	Туре	Value	Form
Chromium (CAS 7440-47-3)	MAK	2 mg/m3	
Copper (CAS 7440-50-8)	MAK	1 mg/m3	Inhalable fraction.
		0,1 mg/m3	Fume and respirable dust.
	STEL	4 mg/m3	Inhalable fraction.
		0,4 mg/m3	Fume and respirable dust.
Ethylbenzene (CAS 100-41-4)	Ceiling	880 mg/m3	
		200 ppm	
	MAK	440 mg/m3	
		100 ppm	
Iron oxide (CAS 1309-37-1)	MAK	5 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
	STEL	20 mg/m3	Inhalable fraction.
		10 mg/m3	Respirable fraction.
Talc (CAS 14807-96-6)	MAK	2 mg/m3	Respirable fraction.
ert-Butyl acetate (CAS 540-88-5)	Ceiling	480 mg/m3	
		100 ppm	
	MAK	96 mg/m3	
		20 ppm	
	STEL	96 mg/m3	
		20 ppm	
Xylene (CAS 1330-20-7)	MAK	221 mg/m3	
		50 ppm	
	STEL	442 mg/m3	
		100 ppm	
Zinc oxide (CAS 1314-13-2)	MAK	5 mg/m3	Fume and respirable dust.
	STEL	20 mg/m3	Inhalable fraction.
		10 mg/m3	Respirable fraction.

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Belgium. OEL. Exposure Limit Values to Chemical Substances at Work, Code of Well-being at work, Book VI, Title 1 - Chemical agents, as amended

Components	Туре	Value	Form
Chromium (CAS 7440-47-3)	TWA	0,5 mg/m3	
Copper (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.
		0,2 mg/m3	Fume.
Ethylbenzene (CAS 100-41-4)	STEL	551 mg/m3	
		125 ppm	
	TWA	87 mg/m3	
		20 ppm	
Iron oxide (CAS 1309-37-1)	TWA	5 mg/m3	Respirable fraction.
Nickel (CAS 7440-02-0)	TWA	1 mg/m3	
Talc (CAS 14807-96-6)	TWA	2 mg/m3	
tert-Butyl acetate (CAS 540-88-5)	STEL	712 mg/m3	
		150 ppm	
	TWA	238 mg/m3	
		50 ppm	
Xylene (CAS 1330-20-7)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Respirable fraction.
	TWA	2 mg/m3	Respirable fraction.

Bulgaria. OELs. Ordinance No 13 on protection of workers against risks of exposure to chemical agents at work, as amended

Components	Туре	Value	Form
Chromium (CAS 7440-47-3)	TWA	2 mg/m3	
Copper (CAS 7440-50-8)	TWA	0,1 mg/m3	
Ethylbenzene (CAS 100-41-4)	STEL	545 mg/m3	
	TWA	435 mg/m3	
Iron oxide (CAS 1309-37-1)	TWA	5 mg/m3	
Nickel (CAS 7440-02-0)	TWA	0,05 mg/m3	
Talc (CAS 14807-96-6)	TWA	1 fibers/cm3	Respirable fraction.
		6 mg/m3	Inhalable fraction.
		3 mg/m3	Respirable fraction.
Xylene (CAS 1330-20-7)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	
	TWA	5 mg/m3	

Croatia. OELs (GVI). Regulation on Protection of Workers against Exposure to Dangerous Chemicals at Work, OELs and Biological Limit Values, Annex I (NN 91/2018), as amended

Components	Туре	Value	Form	
Chromium (CAS 7440-47-3)	MAC	2 mg/m3		
Copper (CAS 7440-50-8)	MAC	1 mg/m3		
		0,2 mg/m3	Dust.	
	STEL	2 mg/m3		
Ethylbenzene (CAS 100-41-4)	MAC	442 mg/m3		

STEL	Components	Туре	Value	Form
ron oxide (CAS 1309-37-1) MAC 5 mg/m3 Respirable dust. 10 mg/m3 Total dust. STEL 10 mg/m3 Fume. MAC 0,5 mg/m3 Fume. MAC 0,5 mg/m3 Fume. MAC 11 mg/m3 Respirable dust. Tale (CAS 14807-96-6) MAC 1 mg/m3 Respirable dust. MAC 966 mg/m3 Fume. MAC 1 mg/m3 Respirable dust. MAC 966 mg/m3 Fume. MAC 1210 mg/m3 Respirable dust. MAC 221 mg/m3 Fume. MAC 221 mg/m3 Fume. MAC 221 mg/m3 Respirable dust. MAC 221 mg/m3 Respirable dust. MAC 221 mg/m3 Respirable dust. MAC 22 mg/m3 Respirable dust. MAC 2 mg/m3 Respirable dust. MAC 3 mg/m3 Respirable dust. MAC 4 mg/m3 Fume. MAC 9 mg/m3 Fume. MAC			100 ppm	
Non-oxide (CAS 1309-37-1) MAC 5 mg/m3 Fume.		STEL	884 mg/m3	
A mg/m3 Respirable dust. 10 mg/m3 Total dust. 10 mg/m3 Total dust. 10 mg/m3 Total dust. 10 mg/m3 Fume. 10 mg/m3 Fume. 10 mg/m3 Fume. 10 mg/m3 Fume. 10 mg/m3 Respirable dust. 10 m			200 ppm	
STEL 10 mg/m3 Furme. 10 mg/m3 Respirable dust.	ron oxide (CAS 1309-37-1)	MAC	5 mg/m3	Fume.
STEL 10 mg/m3 Fume.			4 mg/m3	Respirable dust.
Mac			10 mg/m3	Total dust.
Falc (CAS 14807-96-6) MAC 1 mg/m3 Respirable dust. ert-Butyl acetate (CAS 440-86-5) MAC 966 mg/m3 442 mg/m3 440-98-5) 200 ppm 5TEL 1210 mg/m3 250 ppm Kylene (CAS 1330-20-7) MAC 221 mg/m3 50 ppm STEL 442 mg/m3 100 ppm Zinc oxide (CAS 1314-13-2) MAC 2 mg/m3 Respirable dust. STEL 10 mg/m3 Respirable dust. STEL Syprus. OELs. Control of factory atmosphere and dangerous substances in factories regulation. Pl 311/73, as amended Form Pume. Supper (CAS 7440-50-8) TWA 0.2 mg/m3 Fume. Value TWA 1 mg/m3 Fume. Valice Oxide (CAS 1314-13-2) TWA 5 mg/m3 Fume. Valice (CAS 7440-05-8) TWA 5 mg/m3 Fume. Valice Oxide (CAS 1314-13-2) TWA 5 mg/m3 Fume. Value (CAS 7440-47-30-6) TWA 5 mg/m3 Fume. Value (CAS 7440-47-3) TWA 2 mg/m3 2 mg/m3 Sitylbenzene (CAS 1330-20-7)<		STEL	10 mg/m3	Fume.
Raic (CAS 14807-96-6) MAC 1 mg/m3 Respirable dust.	Nickel (CAS 7440-02-0)	MAC	0,5 mg/m3	
ert-Butyl acetate (CAS MAC 966 mg/m3 960 mg/m3 940-86-5) 200 ppm 5TEL 1210 mg/m3 260 ppm 500 ppm	,	MAC	-	Respirable dust.
STEL 1210 mg/m3 250 ppm STEL 1210 mg/m3 250 ppm STEL 1210 mg/m3 250 ppm STEL 211 mg/m3 500 ppm STEL 442 mg/m3 100 ppm STEL 100 mg/m3 Respirable dust. 100 ppm STEL 10 mg/m3 Respirable dust. 100 ppm STEL 10 mg/m3 Respirable dust. 100 ppm STEL 10 mg/m3 Respirable dust. 10 mg/m3 10 mg	,	MAC	_	•
STEL 1210 mg/m3 250 ppm 250			Ŭ	
Cylene (CAS 1330-20-7) MAC 221 mg/m3 50 ppm 50			• •	
Sylene (CAS 1330-20-7) MAC 221 mg/m3 50 ppm 5TEL 442 mg/m3 100 ppm 5TEL 100 mg/m3 Respirable dust. 50 ppm 5TEL 100 mg/m3 Respirable dust. 5TEL		STEL	1210 mg/m3	
STEL			250 ppm	
STEL	(ylene (CAS 1330-20-7)	MAC	221 mg/m3	
MAC 2 mg/m3 Respirable dust.			50 ppm	
MAC 2 mg/m3 Respirable dust.		STEL	442 mg/m3	
STEL 10 mg/m3 Respirable dust. Copprus. OELs. Control of factory atmosphere and dangerous substances in factories regulation, PI 311/73, as amended Type Value Form Copper (CAS 7440-50-8) TWA 0,2 mg/m3 Fume. Copper (CAS 7440-50-8) TWA 1 mg/m3 Falc (CAS 7440-60-0) TWA 706 part/cm3 Calc (CAS 14807-96-6) TWA 5 mg/m3 Fume. Copprus. OELs. Occupational Exposure Limit Values of Chemicals at Work (Safety and Health at Work (Chem. Agents)) Reg., Ann. 1, R.A.A. 268/2001, as amended) Components Type Value Chromium (CAS 7440-47-3) TWA 2 mg/m3 Elhylbenzene (CAS STEL 884 mg/m3 Copprus. OELs. Occupational Exposure Limit Values of Chemicals at Work (Reg., Ann. 200 ppm TWA 442 mg/m3 100 ppm TWA 442 mg/m3 50 ppm Copprus. Occupational exposure limit values of chemicals at work (Decree on protection of health at work, 1861/2007, Annex 2, Part A & Annex 3, Part A, as amended) Components Type Value Form Type Value Form TWA 221 mg/m3 50 ppm Copprus. Occupational exposure limit values of chemicals at work (Decree on protection of health at work, 1861/2007, Annex 2, Part A & Annex 3, Part A, as amended) Chromium (CAS 7440-47-3) Ceiling 1,5 mg/m3 Aerosol, inhalable. TWA 0,5 mg/m3 Aerosol, inhalable. Copper (CAS 7440-50-8) Ceiling 2 mg/m3 Aerosol, inhalable.			100 ppm	
Copper (CAS 7440-50-8) TWA 0,2 mg/m3 Fume.	Zinc oxide (CAS 1314-13-2)	MAC	2 mg/m3	Respirable dust.
Type		STEL	10 mg/m3	Respirable dust.
TWA			_	
Tale (CAS 14807-96-6) TWA 706 part/cm3 Edition oxide (CAS 1314-13-2) TWA 5 mg/m3 Fume.	Copper (CAS 7440-50-8)	TWA	0,2 mg/m3	Fume.
Time oxide (CAS 1314-13-2) TWA 5 mg/m3 Fume. Supprus. OELs. Occupational Exposure Limit Values of Chemicals at Work (Safety and Health at Work (Chem. Agents) Reg., Ann. 1, R.A.A. 268/2001, as amended) Components Type Value Chromium (CAS 7440-47-3) TWA 2 mg/m3 Ethylbenzene (CAS 100-41-4) TWA 442 mg/m3 100 ppm TWA 442 mg/m3 100 ppm TWA 221 mg/m3 50 ppm Czech Republic. Occupational exposure limit values of chemicals at work (Decree on protection of health at work, 161/2007, Annex 2, Part A & Annex 3, Part A, as amended) Type Value Chromium (CAS 7440-47-3) Celling TWA 1,5 mg/m3 Aerosol, inhalable. TWA 0,5 mg/m3 Dust. Copper (CAS 7440-50-8) Ceiling 1,5 mg/m3 Aerosol, inhalable.	Nickel (CAS 7440-02-0)	TWA	1 mg/m3	
Components Type Value Chromium (CAS 7440-47-3) TWA 2 mg/m3 Ethylbenzene (CAS 1330-20-7) TWA 442 mg/m3 Cylene (CAS 1330-20-7) TWA 221 mg/m3 TWA 442 mg/m3 TWA 221 mg/m3 TWA 30 ppm T	Γalc (CAS 14807-96-6)	TWA	706 part/cm3	
Reg., Ann. 1, R.A.A. 268/2001, as amended Type	Zinc oxide (CAS 1314-13-2)	TWA	5 mg/m3	Fume.
Chromium (CAS 7440-47-3) TWA 2 mg/m3			s at Work (Safety and Health	at Work (Chem. Agents)
STEL 884 mg/m3 200 ppm TWA 442 mg/m3 100 ppm 442 mg/m3 50 ppm 442 mg/m3 50 ppm 442 mg/m3 442 mg/m3 4442 mg/m3 444	Components	Туре	Value	
200 ppm	Chromium (CAS 7440-47-3)	TWA	2 mg/m3	
TWA 442 mg/m3 100 ppm Aylene (CAS 1330-20-7) STEL 442 mg/m3 100 ppm TWA 221 mg/m3 50 ppm Czech Republic. Occupational exposure limit values of chemicals at work (Decree on protection of health at work, 1661/2007, Annex 2, Part A & Annex 3, Part A, as amended) Components Type Value Form Chromium (CAS 7440-47-3) Ceiling 1,5 mg/m3 Aerosol, inhalable. TWA 0,5 mg/m3 Dust. Copper (CAS 7440-50-8) Ceiling 2 mg/m3 Aerosol, inhalable.		STEL	884 mg/m3	
Aylene (CAS 1330-20-7) STEL A42 mg/m3 100 ppm TWA 221 mg/m3 50 ppm Czech Republic. Occupational exposure limit values of chemicals at work (Decree on protection of health at work, 361/2007, Annex 2, Part A & Annex 3, Part A, as amended) Components Type Value Form Chromium (CAS 7440-47-3) Ceiling TWA 0,5 mg/m3 Aerosol, inhalable. TWA 0,5 mg/m3 Dust. Copper (CAS 7440-50-8) Ceiling 2 mg/m3 Aerosol, inhalable.			200 ppm	
Additional Components Type Value Components Type Value Components Type Value Type Value Form Chromium (CAS 7440-47-3) Components Type Value Type Value Form Chromium (CAS 7440-47-3) Components Component		TWA	442 mg/m3	
TWA 221 mg/m3 50 ppm Czech Republic. Occupational exposure limit values of chemicals at work (Decree on protection of health at work, 361/2007, Annex 2, Part A & Annex 3, Part A, as amended) Components Type Value Form Chromium (CAS 7440-47-3) Ceiling 1,5 mg/m3 Aerosol, inhalable. TWA 0,5 mg/m3 Dust. Copper (CAS 7440-50-8) Ceiling 2 mg/m3 Aerosol, inhalable.			100 ppm	
TWA 221 mg/m3 50 ppm Czech Republic. Occupational exposure limit values of chemicals at work (Decree on protection of health at work, 361/2007, Annex 2, Part A & Annex 3, Part A, as amended) Components Type Value Form Chromium (CAS 7440-47-3) Ceiling 1,5 mg/m3 Aerosol, inhalable. TWA 0,5 mg/m3 Dust. Copper (CAS 7440-50-8) Ceiling 2 mg/m3 Aerosol, inhalable.	(V)lene (CAS 1330-20-7)	STEL	442 mg/m3	
Czech Republic. Occupational exposure limit values of chemicals at work (Decree on protection of health at work, 361/2007, Annex 2, Part A & Annex 3, Part A, as amended) Components Type Value Form Chromium (CAS 7440-47-3) Ceiling TWA 0,5 mg/m3 Aerosol, inhalable. 0,5 mg/m3 Dust. Copper (CAS 7440-50-8) Ceiling 2 mg/m3 Aerosol, inhalable.			100 ppm	
Czech Republic. Occupational exposure limit values of chemicals at work (Decree on protection of health at work, 361/2007, Annex 2, Part A & Annex 3, Part A, as amended) Components Type Value Form Chromium (CAS 7440-47-3) Ceiling TWA 0,5 mg/m3 Aerosol, inhalable. 0,5 mg/m3 Dust. Copper (CAS 7440-50-8) Ceiling 2 mg/m3 Aerosol, inhalable.		TWA	221 mg/m3	
Ref1/2007, Annex 2, Part A & Annex 3, Part A, as amended) Type Value Form Chromium (CAS 7440-47-3) Ceiling 1,5 mg/m3 Aerosol, inhalable. TWA 0,5 mg/m3 Aerosol, inhalable. Copper (CAS 7440-50-8) Ceiling 2 mg/m3 Aerosol, inhalable.			50 ppm	
Chromium (CAS 7440-47-3) Ceiling 1,5 mg/m3 Aerosol, inhalable. TWA 0,5 mg/m3 Aerosol, inhalable. 0,5 mg/m3 Dust. Copper (CAS 7440-50-8) Ceiling 2 mg/m3 Aerosol, inhalable.			ls at work (Decree on protect	ion of health at work,
TWA 0,5 mg/m3 Aerosol, inhalable. 0,5 mg/m3 Dust. Copper (CAS 7440-50-8) Ceiling 2 mg/m3 Aerosol, inhalable.			Value	Form
Copper (CAS 7440-50-8) Ceiling 0,5 mg/m3 Dust. 2 mg/m3 Aerosol, inhalable.	Chromium (CAS 7440-47-3)	Ceiling	1,5 mg/m3	Aerosol, inhalable.
Copper (CAS 7440-50-8) Ceiling 0,5 mg/m3 Dust. 2 mg/m3 Aerosol, inhalable.		TWA	0,5 mg/m3	Aerosol, inhalable.
Copper (CAS 7440-50-8) Ceiling 2 mg/m3 Aerosol, inhalable.			-	Dust.
	Copper (CAS 7440-50-8)	Ceiling	-	Aerosol, inhalable.
	•	-	_	

Aerosol, inhalable.

TWA

1 mg/m3

Components	Туре	Value	Form
		0,1 mg/m3	Respirable aerosol fraction
Ethylbenzene (CAS 100-41-4)	Ceiling	500 mg/m3	
	TWA	200 mg/m3	
ron (Massive metal) (CAS 7439-89-6)	TWA	10 mg/m3	
Nickel (CAS 7440-02-0)	Ceiling	1 mg/m3	Aerosol, inhalable.
	TWA	0,5 mg/m3	Aerosol, inhalable.
Гalc (CAS 14807-96-6)	TWA	2 mg/m3	Respirable dust.
		10 mg/m3	Total dust.
ert-Butyl acetate (CAS 540-88-5)	Ceiling	1200 mg/m3	
,	TWA	950 mg/m3	
Xylene (CAS 1330-20-7)	Ceiling	400 mg/m3	
,	TWA	200 mg/m3	
Zinc oxide (CAS 1314-13-2)	Ceiling	5 mg/m3	
, ,	TWA	2 mg/m3	
Denmark. Work Environment Auth Components		bstances & Materials, Annex 2 Value	2 Form
<u> </u>	Type		
Chromium (CAS 7440-47-3)	TLV	0,5 mg/m3	Dust.
Copper (CAS 7440-50-8)	TLV	1 mg/m3	Dust.
		0,1 mg/m3	Fume.
Ethylbenzene (CAS 100-41-4)	TLV	217 mg/m3	
		50 ppm	
ron oxide (CAS 1309-37-1)	TLV	3,5 mg/m3	
Nickel (CAS 7440-02-0)	TLV	0,05 mg/m3	Dust.
ert-Butyl acetate (CAS 540-88-5)	TLV	241 mg/m3	
		50 ppm	
Xylene (CAS 1330-20-7)	TLV	109 mg/m3	
		25 ppm	
Zinc oxide (CAS 1314-13-2)	TLV	4 mg/m3	
Estonia. OELs. Occupational Expo Components	osure Limits of Hazardous Su Type	bstances (Regulation No. 105/ Value	2001, Annex), as amend Form
Chromium (CAS 7440-47-3)	TWA	2 mg/m3	
Copper (CAS 7440-50-8)	TWA	1 mg/m3	Total dust.
,		0,2 mg/m3	Fine dust.
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
•		200 ppm	
	TWA	442 mg/m3	
		100 ppm	
ron oxide (CAS 1309-37-1)	TWA	3,5 mg/m3	Fine dust, respiratory fraction
Nickel (CAS 7440-02-0)	TWA	0,5 mg/m3	
ert-Butyl acetate (CAS	STEL	700 mg/m3	
540-88-5)			
540-88-5)		150 ppm	
540-88-5)	TWA	150 ppm 500 mg/m3	

Estonia. OELs. Occupational Expos Components	Type	Value	Form
Vylene (CAS 1330-20-7)	STEL	450 mg/m3	
		100 ppm	
	TWA	200 mg/m3	
		50 ppm	
Zinc oxide (CAS 1314-13-2)	TWA	5 mg/m3	
Finland. HTP-arvot, App 3., Binding Components	Limit Values, Social Affairs Type	and Ministry of Health Value	Form
Chromium (CAS 7440-47-3)	TWA	0,5 mg/m3	
Copper (CAS 7440-50-8)	TWA	0,02 mg/m3	Respirable dust and/or fume.
		0,02 mg/m3	Respirable.
Ethylbenzene (CAS 100-41-4)	STEL	880 mg/m3	
		200 ppm	
	TWA	220 mg/m3	
		50 ppm	
Iron oxide (CAS 1309-37-1)	TWA	5 mg/m3	Fume.
Nickel (CAS 7440-02-0)	TWA	0,01 mg/m3	Respirable.
Talc (CAS 14807-96-6)	TWA	2 mg/m3	Inhalable dust.
		1 mg/m3	Respirable.
ert-Butyl acetate (CAS 540-88-5)	STEL	725 mg/m3	
		150 ppm	
	TWA	240 mg/m3	
		50 ppm	
Xylene (CAS 1330-20-7)	STEL	440 mg/m3	
		100 ppm	
	TWA	220 mg/m3	
		50 ppm	
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Fume.
	TWA	2 mg/m3	Fume.
France. OELs. Indicative Occupatio Components	nal Exposure Limits as Pres Type	scribed by Order of 30 June 20 Value	004, as amended
Chromium (CAS 7440-47-3)	VME	2 mg/m3	
France. OELs. Occupational Expos Components	ure Limits as Prescribed by Type	Art. R.4412-149 of Labor Code Value	e, as amended
Ethylbenzene (CAS 100-41-4)	VLE	442 mg/m3	
		100 ppm	
	VME	88,4 mg/m3	
		20 ppm	
Xylene (CAS 1330-20-7)	VLE	442 mg/m3	
		100 ppm	
	VME	221 mg/m3	
		50 ppm	
France. Threshold Limit Values (VL	EP) for Occupational Expos Type	ure to Chemicals in France, IN Value	IRS ED 984 Form
Components			
*	VLE	2 mg/m3	Dust.
Components Copper (CAS 7440-50-8) Regulatory status: Indicative		2 mg/m3	Dust.
Copper (CAS 7440-50-8)		2 mg/m3 1 mg/m3	Dust.

Components	Туре	Value	Form
		0,2 mg/m3	Fume.
Regulatory status:	Indicative limit (VL)		
Ethylbenzene (CAS 100-41-4)	VLE	442 mg/m3	
Regulatory status:	Regulatory binding (VRC)		
		100 ppm	
Regulatory status:	Regulatory binding (VRC)		
	VME	88,4 mg/m3	
Regulatory status:	Regulatory binding (VRC)		
		20 ppm	
Regulatory status:	Regulatory binding (VRC)		
ron oxide (CAS 1309-37-	1) VME	5 mg/m3	Fume.
Regulatory status:	Indicative limit (VL)		
Nickel (CAS 7440-02-0)	VME	1 mg/m3	
Regulatory status:	Indicative limit (VL)		
tert-Butyl acetate (CAS 540-88-5)	VME	950 mg/m3	
Regulatory status:	Indicative limit (VL)		
		200 ppm	
Regulatory status:	Indicative limit (VL)		
Kylene (CAS 1330-20-7)	VLE	442 mg/m3	
Regulatory status:	Regulatory binding (VRC)		
		100 ppm	
Regulatory status:	Regulatory binding (VRC)		
	VME	221 mg/m3	
Regulatory status:	Regulatory binding (VRC)		
		50 ppm	
Regulatory status:	Regulatory binding (VRC)		
Zinc oxide (CAS 1314-13-	-2) VME	5 mg/m3	Fume.
Regulatory status:	Indicative limit (VL)		
		10 mg/m3	Dust.

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
Copper (CAS 7440-50-8)	TWA	0,01 mg/m3	Respirable fraction.
Ethylbenzene (CAS 100-41-4)	TWA	88 mg/m3	
		20 ppm	
Iron oxide (CAS 1309-37-1)	TWA	4 mg/m3	Inhalable dust.
tert-Butyl acetate (CAS 540-88-5)	TWA	96 mg/m3	
		20 ppm	
Xylene (CAS 1330-20-7)	TWA	220 mg/m3	
		50 ppm	
Germany. TRGS 900, Limit Values	in the Ambient Air at the Workplace		
Components	Туре	Value	Form
Chromium (CAS 7440-47-3)	AGW	2 mg/m3	Inhalable fraction.
Ethylbenzene (CAS 100-41-4)	AGW	88 mg/m3	
		20 ppm	
Iron oxide (CAS 1309-37-1)	AGW	10 mg/m3	Inhalable fraction.
		1,25 mg/m3	Respirable fraction.

STEEL-IT 2213 Epoxy Ester Precoat

Germany. TRGS 900, Limit Values Components	Туре	Value	Form
Nickel (CAS 7440-02-0)	AGW	0,03 mg/m3	Inhalable fraction.
		0,006 mg/m3	Respirable fraction.
tert-Butyl acetate (CAS	AGW	96 mg/m3	
540-88-5)		20 ppm	
Xylene (CAS 1330-20-7)	AGW	200 mg/m3	
Zinc oxide (CAS 1314-13-2)	AGW	10 mg/m3	Inhalable fraction.
2110 0XIde (0X6 1014-10-2)	7.000	1,25 mg/m3	Respirable fraction.
One of the Brands wild Brands	No. 007/4000 as amounted	1,20 1119/1110	recopilable fraction.
Greece. OELs, Presidential Decree Components	Type	Value	Form
Chromium (CAS 7440-47-3)	TWA	1 mg/m3	
Copper (CAS 7440-50-8)	STEL	2 mg/m3	Dust.
3 capper (3, 13 7 1 1 3 3 3)	TWA	1 mg/m3	Dust.
	1 **/ (0,2 mg/m3	Fume.
Ethylbenzene (CAS	STEL	545 mg/m3	i dillo.
100-41-4)	SILL	545 mg/m5	
		125 ppm	
	TWA	435 mg/m3	
		100 ppm	
Iron oxide (CAS 1309-37-1)	STEL	10 mg/m3	
	TWA	10 mg/m3	
Talc (CAS 14807-96-6)	TWA	2 mg/m3	Respirable.
		10 mg/m3	Inhalable
tert-Butyl acetate (CAS 540-88-5)	STEL	1190 mg/m3	
040-00-0)		250 ppm	
	TWA	950 mg/m3	
		200 ppm	
Xylene (CAS 1330-20-7)	STEL	650 mg/m3	
		150 ppm	
	TWA	435 mg/m3	
		100 ppm	
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Fume.
(TWA	5 mg/m3	Fume.
Hungary. OELs. Decree on protect		· ·	
Components	Type	Value	Form
Chromium (CAS 7440-47-3)	TWA	2 mg/m3	
Copper (CAS 7440-50-8)	STEL	0,2 mg/m3	
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
	TWA	442 mg/m3	
Iron oxide (CAS 1309-37-1)	TWA	4 mg/m3	Respirable.
Talc (CAS 14807-96-6)	TWA	2 mg/m3	Respirable dust.
Xylene (CAS 1330-20-7)	STEL	442 mg/m3	
	TWA	221 mg/m3	
Zinc oxide (CAS 1314-13-2)	TWA	5 mg/m3	Fume.
		5 mg/m3	Dust.
Iceland. OELs. Regulation 390/200 Components	9 on Pollution Limits and Mea Type	sures to Reduce Pollution at th Value	e Workplace, as amende Form

	Туре		
Copper (CAS 7440-50-8)	TWA	1 mg/m3	Total dust.
		0,1 mg/m3	Respirable dust.
Ethylbenzene (CAS I00-41-4)	STEL	884 mg/m3	
•		200 ppm	
	TWA	200 mg/m3	
		50 ppm	
ron oxide (CAS 1309-37-1)	TWA	3,5 mg/m3	Respirable dust.
lickel (CAS 7440-02-0)	TWA	0,05 mg/m3	Dust.
ert-Butyl acetate (CAS i40-88-5)	TWA	700 mg/m3	
		150 ppm	
(ylene (CAS 1330-20-7)	STEL	442 mg/m3	
		100 ppm	
	TWA	109 mg/m3	
		25 ppm	
Zinc oxide (CAS 1314-13-2)	TWA	4 mg/m3	Fume.
reland. OELVs, Schedules 1 & 2, 0 Components	Code of Practise for Chemical Type	Agents and Carcinogens Reg Value	gulations Form
Chromium (CAS 7440-47-3)	TWA	2 mg/m3	
Copper (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.
,		0,2 mg/m3	Fume.
Ethylbenzene (CAS	STEL	884 mg/m3	
00-41-4)			
		200 ppm	
	TWA	442 mg/m3	
		100 ppm	
ron oxide (CAS 1309-37-1)	STEL	10 mg/m3	Fume.
	TWA	5 mg/m3	Fume.
		4 mg/m3	Respirable dust.
		10 mg/m3	Total inhalable dust.
Nickel (CAS 7440-02-0)	TWA	0,5 mg/m3	
Talc (CAS 14807-96-6)	TWA	10 mg/m3	Total inhalable dust.
		0,8 mg/m3	Respirable dust.
ert-Butyl acetate (CAS 540-88-5)	TWA	200 ppm	
(ylene (CAS 1330-20-7)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Respirable fraction and fume.
	TWA	2 mg/m3	Respirable fraction and fume.
taly. OELs			
Components	Туре	Value	Form
Chromium (CAS 7440-47-3)	TWA	0,5 mg/m3	
Copper (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.
,		0,2 mg/m3	Fume.
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
,		200 ppm	

Italy. OELs	.	V/.1	Earn-
Components	Туре	Value	Form
	TWA	442 mg/m3	
		100 ppm	
Iron oxide (CAS 1309-37-1)	TWA	5 mg/m3	Respirable fraction.
Nickel (CAS 7440-02-0)	TWA	1,5 mg/m3	Inhalable fraction.
Talc (CAS 14807-96-6)	TWA	2 mg/m3	Respirable fraction.
ert-Butyl acetate (CAS 540-88-5)	STEL	150 ppm	
	TWA	50 ppm	
Xylene (CAS 1330-20-7)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Respirable fraction.
	TWA	2 mg/m3	Respirable fraction.
_atvia. OELs. Occupational Expos	ure Limits of Chemical Subst	ances at Workplace (Reg. No	. 325/ 2007. L.V. 80. Anne
1), as amended		· · · · ·	. •=• =•• , = : : •• ,
Components	Туре	Value	
Chromium (CAS 7440-47-3)	TWA	2 mg/m3	
Copper (CAS 7440-50-8)	STEL	1 mg/m3	
	TWA	0,5 mg/m3	
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
		100 ppm	
Nickel (CAS 7440-02-0)	TWA	0,05 mg/m3	
ert-Butyl acetate (CAS 540-88-5)	TWA	200 mg/m3	
Xylene (CAS 1330-20-7)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	
Zinc oxide (CAS 1314-13-2)	TWA	0,5 mg/m3	
Lithuania. OELs. Limit Values for Components		_	rm HN 23:2007) Form
Benzene,	TWA	20 mg/m3	
derizerie, 1-chloro-4-(trifluoromethyl)- (CAS 98-56-6)	TWA	20 mg/m3	
Chromium (CAS 7440-47-3)	TWA	2 mg/m3	
Copper (CAS 7440-50-8)	TWA	1 mg/m3	Inhalable fraction.
,		0,2 mg/m3	Respirable fraction.
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	·
,		200 ppm	
	TWA	442 mg/m3	
		100 ppm	
ron oxide (CAS 1309-37-1)	TWA	3,5 mg/m3	Respirable fraction.
,	TWA	-	respirable fraction.
Nickel (CAS 7440-02-0)		0,5 mg/m3	lab alabia fu
Talc (CAS 14807-96-6)	TWA	2 mg/m3	Inhalable fraction.
Xylene (CAS 1330-20-7)	STEL	1 mg/m3 442 mg/m3	Respirable fraction.

Components	Туре	Value	Form
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	
Zinc oxide (CAS 1314-13-2)	TWA	5 mg/m3	

Luxembourg. OELs. Binding Occupational Exposure Limit Values (Annex I), G.D.R. of 14 November 2016, OJ Memorial A, $n \circ 235/2016$, as amended

Components	Туре	Value	
Chromium (CAS 7440-47-3)	TWA	2 mg/m3	
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
		100 ppm	
Xylene (CAS 1330-20-7)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	

Malta. OELs. Protection of Health and Safety of Workers from Risks related to Chemical Agents at Work (L.N 227/2003 Schedules I and V), as amended

Components	Туре	Value	
Chromium (CAS 7440-47-3)	TWA	2 mg/m3	
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
		100 ppm	
Xylene (CAS 1330-20-7)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	

Netherlands. OELs per Annex XIII of Working Conditions Regulation (Government Gazette no. 252, 29 December 2006), as amended

Components	Туре	Value	Form
Chromium (CAS 7440-47-3)	TWA	0,5 mg/m3	
Copper (CAS 7440-50-8)	TWA	0,1 mg/m3	Inhalable fraction.
Ethylbenzene (CAS 100-41-4)	STEL	430 mg/m3	
	TWA	215 mg/m3	
Talc (CAS 14807-96-6)	TWA	0,25 mg/m3	Respirable dust.
Xylene (CAS 1330-20-7)	STEL	442 mg/m3	
	TWA	210 mg/m3	

Norway. Regulation No. 1358 on Measures and Limit Values for Physical and Chemical Factors in Work Environment and Infection Groups for Biological Factors, as amended

Components	Туре	Value	Form
Copper (CAS 7440-50-8)	TLV	1 mg/m3	Dust.
		0,1 mg/m3	Fume.
Ethylbenzene (CAS 100-41-4)	TLV	20 mg/m3	
		5 ppm	
Iron oxide (CAS 1309-37-1)	TLV	3 mg/m3	
Nickel (CAS 7440-02-0)	TLV	0,05 mg/m3	

Components	Туре	Value	Form
Talc (CAS 14807-96-6)	TLV	6 mg/m3	Total dust.
		2 mg/m3	Respirable dust.
tert-Butyl acetate (CAS 540-88-5)	STEL	723 mg/m3	
		150 ppm	
	TLV	241 mg/m3	
		50 ppm	
Xylene (CAS 1330-20-7)	TLV	108 mg/m3	
		25 ppm	
Zinc oxide (CAS 1314-13-2)	TLV	5 mg/m3	Respirable dust.
		5 mg/m3	Dust.
		10 mg/m3	Total dust.
Poland. Maximum permissible cor 1286/2018, Annex 1)	centrations and intensities of	harmful factors in the work e	environment (Dz.U.Poz.
Components	Туре	Value	Form
Chromium (CAS 7440-47-3)	TWA	0,5 mg/m3	
Copper (CAS 7440-50-8)	TWA	0,2 mg/m3	
Ethylbenzene (CAS 100-41-4)	STEL	400 mg/m3	
	TWA	200 mg/m3	
Iron oxide (CAS 1309-37-1)	STEL	5 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
	TWA	5 mg/m3	Inhalable fraction.
		2,5 mg/m3	Respirable fraction.
Nickel (CAS 7440-02-0)	TWA	0,25 mg/m3	
Talc (CAS 14807-96-6)	TWA	4 mg/m3	Inhalable fraction.
		1 mg/m3	Respirable fraction.
tert-Butyl acetate (CAS 540-88-5)	STEL	900 mg/m3	
	TWA	900 mg/m3	
Xylene (CAS 1330-20-7)	STEL	200 mg/m3	
	TWA	100 mg/m3	
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Inhalable fraction.
	TWA	5 mg/m3	Inhalable fraction.
Portugal. Decree-Law No. 24/2012, Components	Occupational Exposure Limit Type	Values, Annex II, as amende Value	ed
Ethylbenzene (CAS	STEL	884 mg/m3	
100-41-4)	SILL	200 ppm	
	TWA	442 mg/m3	
	1 1 1 1 7	100 ppm	
Xylene (CAS 1330-20-7)	STEL	442 mg/m3	
Ayione (OAO 1000-20-1)	JILL	100 ppm	
	TWA	221 mg/m3	
	I VVA	_	
Portugal VI Es Naver an account	anal avnogura to aborded	50 ppm	
Portugal. VLEs. Norm on occupati Components	onal exposure to cnemical age Type	ents (NP 1796-2014) Value	Form

Copper (CAS 7440-50-8)

Chromium (CAS 7440-47-3)

Dust and mist.

Fume.

0,5 mg/m3

0,2 mg/m3

1 mg/m3

TWA

TWA

Portugal. VLEs. Norm on occupatio Components	nal exposure to chemical a	gents (NP 1796-2014) Value	Form
Ethylbenzene (CAS 100-41-4)	TWA	20 ppm	
Iron oxide (CAS 1309-37-1)	TWA	5 mg/m3	Respirable fraction.
Nickel (CAS 7440-02-0)	TWA	1,5 mg/m3	Inhalable fraction.
Talc (CAS 14807-96-6)	TWA	2 mg/m3	Respirable fraction.
tert-Butyl acetate (CAS 540-88-5)	TWA	200 ppm	
Xylene (CAS 1330-20-7)	STEL	150 ppm	
	TWA	100 ppm	
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Respirable fraction.
	TWA	2 mg/m3	Respirable fraction.
Romania. OELs. Limit Values of Chamended)	emical Agents at Workplace	e (Regulation 1.218/2006, M.O 8	345, Annex 1, 3&4, as
Components	Туре	Value	Form
Chromium (CAS 7440-47-3)	TWA	2 mg/m3	
Copper (CAS 7440-50-8)	STEL	1,5 mg/m3	Dust.
		0,2 mg/m3	Fume.
	TWA	0,5 mg/m3	Dust.
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
		100 ppm	
Iron oxide (CAS 1309-37-1)	STEL	10 mg/m3	Dust and fume.
	TWA	5 mg/m3	Dust and fume.
Nickel (CAS 7440-02-0)	STEL	0,5 mg/m3	
	TWA	0,1 mg/m3	
Talc (CAS 14807-96-6)	TWA	2 mg/m3	Respirable fraction.
Xylene (CAS 1330-20-7)	STEL	442 mg/m3 100 ppm	
	TWA	221 mg/m3	
		50 ppm	
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Fume.
	TWA	5 mg/m3	Fume.
Slovakia. OELs for carcinogens and amended	l mutagens. Regulation No.	356/2006 on carcinogenic and	mutagenic substances, as
Components	Туре	Value	Form
Nickel (CAS 7440-02-0)	TWA	0,05 mg/m3	Inhalable fraction.
Slovakia. OELs. Decree of the gove agents	rnment of the Slovak Repub	olic concerning protection of h	
Components	Туре	Value	Form
Chromium (CAS 7440-47-3)	TWA	2 mg/m3	
Copper (CAS 7440-50-8)	TWA	1 mg/m3	Inhalable fraction.
		0,2 mg/m3	Respirable fume.
Ethylbenzene (CAS 100-41-4)	TWA	442 mg/m3	
Iron (Massive metal) (CAS	TWA	100 ppm 6 mg/m3	
7439-89-6) Iron oxide (CAS 1309-37-1)	TWA	4 mg/m3	Inhalable fume.
11011 OVIDE (CVO 1908-91-1)	1 VV/A	4 mg/m3 1,5 mg/m3	Respirable fume.
Talc (CAS 14807-96-6)	TWA	2 mg/m3	Respirable furne.
14.0 (0/10 17007-00-0)	I V ∜ / \	2 mg/m3	поорналь насцон.

Slovakia. OELs. Decree of the government of the Slovak Republic concerning protection of health in work with chemical agents

agents Components	Туре	Value	Form
		10 mg/m3	Total
ert-Butyl acetate (CAS 540-88-5)	TWA	500 mg/m3	
		100 ppm	
trizinc bis(orthophosphate) (CAS 7779-90-0)	TWA	2 mg/m3	Inhalable fraction.
		0,1 mg/m3	Respirable fraction.
Xylene (CAS 1330-20-7)	TWA	221 mg/m3	
		50 ppm	
Zinc oxide (CAS 1314-13-2)	TWA	1 mg/m3	Respirable fume.
Slovakia. OELs. Maximum permis: Annex 1, Table 1, as amended)			_
Components	Туре	Value	Form
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
Talc (CAS 14807-96-6)	TWA	2 mg/m3	Respirable fraction.
tert-Butyl acetate (CAS 540-88-5)	STEL	700 mg/m3	
		150 ppm	
Xylene (CAS 1330-20-7)	STEL	442 mg/m3	
		100 ppm	
Zinc oxide (CAS 1314-13-2)	STEL	1 mg/m3	Respirable fume.
Components Chromium (CAS 7440-47-3)	Type KTV	Value 2 mg/m3	Form Inhalable fraction.
Ethylbenzene (CAS 100-41-4)	KTV	884 mg/m3	
		200 ppm	
lron oxide (CAS 1309-37-1)	KTV	20 mg/m3	Inhalable fraction.
		2,5 mg/m3	Respirable fraction.
Nickel (CAS 7440-02-0)	KTV	0,048 mg/m3	Respirable fraction.
Xylene (CAS 1330-20-7)	KTV	442 mg/m3	
		100 ppm	
Zinc oxide (CAS 1314-13-2)	KTV	20 mg/m3	Inhalable fraction.
		2,5 mg/m3	Respirable fraction.
Slovenia. OELs. Occupational Exp due to Exp. to Chemicals at Work,	Annex I), as amended		
Components	Туре	Value	Form
Chromium (CAS 7440-47-3)	TWA	2 mg/m3	Inhalable fraction.
Ethylbenzene (CAS 100-41-4)	TWA	442 mg/m3	
100-41-4)		100 ppm	
100-41-4)	TWA	100 ppm 10 mg/m3	Inhalable fraction.
100-41-4) Iron oxide (CAS 1309-37-1)	TWA	100 ppm 10 mg/m3 1,25 mg/m3	Respirable fraction.
ron oxide (CAS 1309-37-1) Nickel (CAS 7440-02-0)	TWA TWA	100 ppm 10 mg/m3 1,25 mg/m3 0,006 mg/m3	
ron oxide (CAS 1309-37-1) Nickel (CAS 7440-02-0) Jert-Butyl acetate (CAS	TWA	100 ppm 10 mg/m3 1,25 mg/m3 0,006 mg/m3 200 mg/m3	Respirable fraction.
100-41-4) Iron oxide (CAS 1309-37-1) Nickel (CAS 7440-02-0) tert-Butyl acetate (CAS 540-88-5)	TWA TWA TWA	100 ppm 10 mg/m3 1,25 mg/m3 0,006 mg/m3 200 mg/m3	Respirable fraction.
100-41-4)	TWA TWA	100 ppm 10 mg/m3 1,25 mg/m3 0,006 mg/m3 200 mg/m3	Respirable fraction.

Components	Туре	Value	Form
Zinc oxide (CAS 1314-13-2)	TWA	10 mg/m3	Inhalable fraction.
		1,25 mg/m3	Respirable fraction.

Spain. OELs. INSST, Límites de Exposición Profesional Para Agentes Químicos, Table 1-Valores Límites Ambientales (VLAs)

Components	Туре	Value	Form
Copper (CAS 7440-50-8)	TWA	0,01 mg/m3	Respirable fraction.
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	441 mg/m3	
		100 ppm	
Iron oxide (CAS 1309-37-1)	TWA	5 mg/m3	Dust and fume.
Nickel (CAS 7440-02-0)	TWA	1 mg/m3	
Talc (CAS 14807-96-6)	TWA	2 mg/m3	Respirable fraction.
tert-Butyl acetate (CAS 540-88-5)	STEL	724 mg/m3	
		150 ppm	
	TWA	241 mg/m3	
		50 ppm	
Xylene (CAS 1330-20-7)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Respirable fraction.
	TWA	2 mg/m3	Respirable fraction.

Sweden. OELs (Annex 1). Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2018:1), as amended

Components	Type	Value	Form
Chromium (CAS 7440-47-3)	TWA	0,5 mg/m3	Total dust.
Copper (CAS 7440-50-8)	TWA	0,01 mg/m3	Respirable dust.
Ethylbenzene (CAS 100-41-4)	Ceiling	884 mg/m3	
		200 ppm	
	TWA	220 mg/m3	
		50 ppm	
Iron oxide (CAS 1309-37-1)	TWA	3,5 mg/m3	Respirable dust.
Nickel (CAS 7440-02-0)	TWA	0,5 mg/m3	Total dust.
Talc (CAS 14807-96-6)	TWA	2 mg/m3	Total dust.
		1 mg/m3	Respirable dust.
tert-Butyl acetate (CAS 540-88-5)	Ceiling	723 mg/m3	
		150 ppm	
	STEL	700 mg/m3	
		150 ppm	
	TWA	500 mg/m3	
		100 ppm	
Xylene (CAS 1330-20-7)	Ceiling	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	

Sweden. OELs (Annex 1). Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2018:1), as amended

Components	Туре	Value	Form
Zinc oxide (CAS 1314-13-2)	TWA	5 mg/m3	Total dust.
Switzerland. SUVA Grenzwerte an			_
Components	Туре	Value	Form
Chromium (CAS 7440-47-3)	TWA	0,5 mg/m3	Inhalable fraction.
Copper (CAS 7440-50-8)	STEL	0,2 mg/m3	Inhalable fraction.
	TWA	0,1 mg/m3	Inhalable fraction.
Ethylbenzene (CAS 100-41-4)	STEL	220 mg/m3	
		50 ppm	
	TWA	220 mg/m3	
		50 ppm	
Iron oxide (CAS 1309-37-1)	TWA	3 mg/m3	Respirable fraction.
Nickel (CAS 7440-02-0)	TWA	0,5 mg/m3	Inhalable fraction.
Talc (CAS 14807-96-6)	TWA	3 mg/m3	Respirable fraction.
tert-Butyl acetate (CAS 540-88-5)	STEL	480 mg/m3	
		100 ppm	
	TWA	240 mg/m3	
		50 ppm	
Xylene (CAS 1330-20-7)	STEL	440 mg/m3	
		100 ppm	
	TWA	220 mg/m3	
		50 ppm	
Zinc oxide (CAS 1314-13-2)	STEL	3 mg/m3	Respirable fume.
	TWA	3 mg/m3	Respirable fume.
UK. OELs. Workplace Exposure L Components	imits (WELs) (EH40/2005 (Fou Type	rth Edition 2020)), Table 1 Value	Form
Chromium (CAS 7440-47-3)	TWA	0,5 mg/m3	
		0,0g/0	
Copper (CAS 7440-50-8)	STEL	2 mg/m3	Inhalable dusts and mists
Copper (CAS 7440-50-8)		·	
Copper (CAS 7440-50-8)	STEL	2 mg/m3	
Ethylbenzene (CAS	STEL	2 mg/m3 1 mg/m3	Inhalable dusts and mists
Ethylbenzene (CAS	STEL TWA	2 mg/m3 1 mg/m3 0,2 mg/m3	Inhalable dusts and mists
Ethylbenzene (CAS	STEL TWA	2 mg/m3 1 mg/m3 0,2 mg/m3 552 mg/m3	Inhalable dusts and mists
Ethylbenzene (CAS	STEL TWA STEL	2 mg/m3 1 mg/m3 0,2 mg/m3 552 mg/m3	Inhalable dusts and mists
Ethylbenzene (CAS 100-41-4)	STEL TWA STEL	2 mg/m3 1 mg/m3 0,2 mg/m3 552 mg/m3 125 ppm 441 mg/m3	Inhalable dusts and mists
Ethylbenzene (CAS 100-41-4)	STEL TWA STEL TWA	2 mg/m3 1 mg/m3 0,2 mg/m3 552 mg/m3 125 ppm 441 mg/m3 100 ppm	Inhalable dusts and mists Fume.
Ethylbenzene (CAS 100-41-4)	STEL TWA STEL TWA STEL	2 mg/m3 1 mg/m3 0,2 mg/m3 552 mg/m3 125 ppm 441 mg/m3 100 ppm 10 mg/m3	Inhalable dusts and mists Fume. Fume.
Ethylbenzene (CAS 100-41-4)	STEL TWA STEL TWA STEL	2 mg/m3 1 mg/m3 0,2 mg/m3 552 mg/m3 125 ppm 441 mg/m3 100 ppm 10 mg/m3 5 mg/m3	Inhalable dusts and mists Fume. Fume. Fume.
Ethylbenzene (CAS 100-41-4) Iron oxide (CAS 1309-37-1)	STEL TWA STEL TWA STEL	2 mg/m3 1 mg/m3 0,2 mg/m3 552 mg/m3 125 ppm 441 mg/m3 100 ppm 10 mg/m3 5 mg/m3 4 mg/m3	Inhalable dusts and mists Fume. Fume. Fume. Respirable.
Ethylbenzene (CAS 100-41-4) Iron oxide (CAS 1309-37-1) Nickel (CAS 7440-02-0)	STEL TWA STEL TWA STEL TWA	2 mg/m3 1 mg/m3 0,2 mg/m3 552 mg/m3 125 ppm 441 mg/m3 100 ppm 10 mg/m3 5 mg/m3 4 mg/m3 10 mg/m3	Inhalable dusts and mists Fume. Fume. Fume. Respirable.
Ethylbenzene (CAS 100-41-4) Iron oxide (CAS 1309-37-1) Nickel (CAS 7440-02-0) Talc (CAS 14807-96-6) tert-Butyl acetate (CAS	STEL TWA STEL TWA STEL TWA TWA	2 mg/m3 1 mg/m3 0,2 mg/m3 552 mg/m3 125 ppm 441 mg/m3 100 ppm 10 mg/m3 5 mg/m3 4 mg/m3 10 mg/m3 0,5 mg/m3	Inhalable dusts and mists Fume. Fume. Fume. Respirable. Inhalable
Ethylbenzene (CAS 100-41-4) Iron oxide (CAS 1309-37-1) Nickel (CAS 7440-02-0) Talc (CAS 14807-96-6) tert-Butyl acetate (CAS	STEL TWA STEL TWA STEL TWA TWA TWA	2 mg/m3 1 mg/m3 0,2 mg/m3 552 mg/m3 125 ppm 441 mg/m3 100 ppm 10 mg/m3 5 mg/m3 4 mg/m3 10 mg/m3 10 mg/m3 10 mg/m3 10 mg/m3	Inhalable dusts and mists Fume. Fume. Fume. Respirable. Inhalable
Ethylbenzene (CAS 100-41-4) Iron oxide (CAS 1309-37-1) Nickel (CAS 7440-02-0) Talc (CAS 14807-96-6) tert-Butyl acetate (CAS	STEL TWA STEL TWA STEL TWA TWA TWA STEL	2 mg/m3 1 mg/m3 0,2 mg/m3 552 mg/m3 125 ppm 441 mg/m3 100 ppm 10 mg/m3 5 mg/m3 4 mg/m3 10 mg/m3 10 mg/m3 10 mg/m3 10 mg/m3 250 ppm	Inhalable dusts and mists Fume. Fume. Fume. Respirable. Inhalable
Ethylbenzene (CAS 100-41-4) Iron oxide (CAS 1309-37-1) Nickel (CAS 7440-02-0) Talc (CAS 14807-96-6) tert-Butyl acetate (CAS	STEL TWA STEL TWA STEL TWA TWA TWA	2 mg/m3 1 mg/m3 0,2 mg/m3 552 mg/m3 125 ppm 441 mg/m3 100 ppm 10 mg/m3 5 mg/m3 4 mg/m3 10 mg/m3 10 mg/m3 250 ppm 966 mg/m3	Inhalable dusts and mists Fume. Fume. Fume. Respirable. Inhalable
Ethylbenzene (CAS 100-41-4) Iron oxide (CAS 1309-37-1) Nickel (CAS 7440-02-0) Talc (CAS 14807-96-6) tert-Butyl acetate (CAS 540-88-5)	STEL TWA STEL TWA STEL TWA TWA TWA STEL TWA	2 mg/m3 1 mg/m3 0,2 mg/m3 552 mg/m3 125 ppm 441 mg/m3 100 ppm 10 mg/m3 5 mg/m3 4 mg/m3 10 mg/m3 10 mg/m3 250 ppm 966 mg/m3 200 ppm	Inhalable dusts and mists Fume. Fume. Fume. Respirable. Inhalable
Ethylbenzene (CAS 100-41-4) Iron oxide (CAS 1309-37-1) Nickel (CAS 7440-02-0) Talc (CAS 14807-96-6) tert-Butyl acetate (CAS 540-88-5)	STEL TWA STEL TWA STEL TWA TWA TWA STEL	2 mg/m3 1 mg/m3 0,2 mg/m3 552 mg/m3 125 ppm 441 mg/m3 100 ppm 10 mg/m3 5 mg/m3 4 mg/m3 10 mg/m3 10 mg/m3 200 ppm 966 mg/m3 200 ppm 441 mg/m3	Inhalable dusts and mists Fume. Fume. Fume. Respirable. Inhalable
Copper (CAS 7440-50-8) Ethylbenzene (CAS 100-41-4) Iron oxide (CAS 1309-37-1) Nickel (CAS 7440-02-0) Talc (CAS 14807-96-6) tert-Butyl acetate (CAS 540-88-5) Xylene (CAS 1330-20-7)	STEL TWA STEL TWA STEL TWA TWA TWA STEL TWA	2 mg/m3 1 mg/m3 0,2 mg/m3 552 mg/m3 125 ppm 441 mg/m3 100 ppm 10 mg/m3 5 mg/m3 4 mg/m3 10 mg/m3 10 mg/m3 250 ppm 966 mg/m3 200 ppm	Fume. Fume. Respirable. Inhalable

JK. OELs. Workplace Exposure Limits (WELs) (EH40/2005 (Fourth Edition 2020)), Table 1 Components Type Value Form					
		50 ppm			
Zinc oxide (CAS 1314-13-2)	TWA	4 mg/m3	Respirable dust.		
		10 mg/m3	Inhalable dust.		
EU. Indicative Exposure Limit Values in D Components	irectives 91/322/EEC, 2000/39/EC, 2 Type	006/15/EC, 2009/1 Value	61/EU, 2017/164/EU		
Chromium (CAS 7440-47-3)	TWA	2 mg/m3			
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3			
		200 ppm			
	TWA	442 mg/m3			
		100 ppm			
Xylene (CAS 1330-20-7)	STEL	442 mg/m3			
		100 ppm			
	TWA	221 mg/m3			
		50 ppm			

Biological limit values

Croatia. BELs (BGV). Regulation on Protection of Workers against Exposure to Dangerous Chemicals at Work, OELs and BELs, Annex IV (NN 91/2018), as amended

Components	Value	Determinant	Specimen	Sampling Time
Ethylbenzene (CAS 100-41-4)	1,5 g/g	Mandelic acid	Creatinine in urine	*
	1,5 mg/l	ethylbenzene	Blood	*
	1,12 mol/mol	Mandelic acid	Creatinine in urine	*
	14,1 umol/l	ethylbenzene	Blood	*
Xylene (CAS 1330-20-7)	1,5 g/g	Methylhippuric acids	Creatinine in urine	*
	1,5 mg/l	xylene	Blood	*
	0,88 mol/mol	Methylhippuric acids	Creatinine in urine	*
	14,13 umol/l	xylene	Blood	*

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

Czech Republic. BELs. Government Decree 432/2003 Sb., as amended

Components	Value	Determinant	Specimen	Sampling Time
Chromium (CAS 7440-47-3)0,065 µmol/mmo		Total chromium	Creatinine in urine	*
	0,03 mg/g	Total chromium	Creatinine in urine	*
Ethylbenzene (CAS 100-41-4)	1100 µmol/mmol	Mandelic acid	Creatinine in urine	*
·	1500 mg/g	Mandelic acid	Creatinine in urine	*
Nickel (CAS 7440-02-0)	0,077 µmol/mmol	Nickel	Creatinine in urine	*
	0,04 mg/g	Nickel	Creatinine in urine	*
Xylene (CAS 1330-20-7)	820 µmol/mmol	Methylhippuric acids	Creatinine in urine	*
	1400 mg/g	Methylhippuric acids	Creatinine in urine	*

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

Finland. HTP-arvot, App 2., Biological Limit Values, Social Affairs and Ministry of Health

Components	Value	Determinant	Specimen	Sampling Time
Ethylbenzene (CAS 100-41-4)	5,2 mmol/l	Mandelic acid	Urine	*

Finland. HTP-arvot, App 2., Biological Limit Values, Social Affairs and Ministry of Health

Components	Value	Determinant	Specimen	Sampling Time	
Nickel (CAS 7440-02-0)	0,1 umol/l	Nickel	Urine	*	
Xylene (CAS 1330-20-7)	5 mmol/l	Methylhippuric	Urine	*	

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

France. Biological indica	tors of exposure (IBE) (National Institute f	or Research an	d Security (INRS), ND 2065)
Components	Value	Determinant	Specimen	Sampling Time

Components	Value	Beterminant	Оресппеп	Camping Time
Ethylbenzene (CAS 100-41-4)	1500 mg/g	Acide mandélique	Creatinine in urine	*
Xylene (CAS 1330-20-7)	1500 mg/g	Acides méthylhippuriq ues	Creatinine in urine	*

^{* -} 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	*	
Xylene (CAS 1330-20-7)	2000 mg/l	Methylhippur-(T olur-) säure (alle Isomere)	Urine	*	

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

Hungary. BELs. Decree on protection of workers exposed to chemical agents (5/2020. (II.6)), Annex 3&4, as amended Components Value Determinant Specimen Sampling Time

Components	Value	Determinant	Opecimen	Camping Time
Chromium (CAS 7440-47-	3)0,022 µmol/mmol	chromium	Creatinine in urine	*
	0,01 mg/g	chromium	Creatinine in urine	*
Ethylbenzene (CAS 100-41-4)	1110 µmol/mmol	mandelic acid	Creatinine in urine	*
	1500 mg/g	mandelic acid	Creatinine in urine	*
Nickel (CAS 7440-02-0)	0,051 µmol/l	Nickel	Urine	*
	0,003 mg/l	Nickel	Urine	*
Xylene (CAS 1330-20-7)	860 µmol/mmol	methyl hippuric acids	Creatinine in urine	*
	1500 mg/g	methyl hippuric acids	Creatinine in urine	*

^{* -} 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	*	
Xylene (CAS 1330-20-7)	1334 mg/g	Methylhippuric acids	Creatinine in urine	*	
	2000 mg/l	Methylhippuric acids	Urine	*	
	1,5 mg/l	xylene	Blood	*	

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

Spain. BELs. INSST, Límites de Exposición Profesional Para Agentes Químicos, Table 3-Valores Límite Biológicos (VLB) Components Value Determinant Specimen Sampling Time

Components	value	Determinant	Opecimen	Camping Time
Ethylbenzene (CAS 100-41-4)	700 mg/g	Suma del acido mandélico y el ácido fenilglioxílico	Creatinine in urine	*

Spain. BELs. INSST, Límites de Exposición Profesional Para Agentes Químicos, Table 3-Valores Límite Biológicos (VLB)

Components	Value	Determinant	Specimen	Sampling Time	
Xylene (CAS 1330-20-7)	1 g/g	Ácidos metilhipúricos	Creatinine in urine	*	

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

Switzerland. SUVA Grenzwerte am Arbeitsplatz: Aktuelle BAT-Werte

Components	Value	Determinant	Specimen	Sampling Time
Ethylbenzene (CAS 100-41-4)	600 mg/g	Mandelsäure + Phenylglyoxyls äure	Creatinine in urine	*
Nickel (CAS 7440-02-0)	45 μg/l	Nickel	Urine	*
Xylene (CAS 1330-20-7)	2 g/l	Methylhippursä uren	Urine	*

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

UK. BELs. Biological Monitoring Guidance Values (BMGVs) (EH40/2005 (Fourth Edition 2020)), Table 2					
Components	Value	Determinant	Specimen	Sampling Time	
Chromium (CAS 7440-47-3)10 umol/mol	Chromium	Creatinine in urine	*	
Xylene (CAS 1330-20-7)	650 mmol/mol	Methyl hippuric acid	Creatinine in urine	*	

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

Recommended monitoring

Follow standard monitoring procedures.

procedures

Derived no effect levels

(DNELs)

Not available.

Predicted no effect Not available.

concentrations (PNECs)

Exposure guidelines Austria. MAK List

> Xylene (CAS 1330-20-7) Can be absorbed through the skin. **Belgium OELs: Skin designation** Xylene (CAS 1330-20-7) Can be absorbed through the skin.

Bulgaria OELs: Skin designation Xylene (CAS 1330-20-7) Croatia ELVs: Skin designation

Can be absorbed through the skin.

Xylene (CAS 1330-20-7) Czech Republic PELs: Skin designation

Can be absorbed through the skin.

Xylene (CAS 1330-20-7)

Denmark GV: Skin designation

Xylene (CAS 1330-20-7) Estonia OELs: Skin designation Xylene (CAS 1330-20-7)

Can be absorbed through the skin.

EU Exposure Limit Values: Skin designation

Can be absorbed through the skin. Xylene (CAS 1330-20-7)

Finland Exposure Limit Values: Skin designation

Xylene (CAS 1330-20-7) Can be absorbed through the skin. France INRS: Skin designation

Xylene (CAS 1330-20-7) France Mandatory OELs (VLEP): Skin designation

Can be absorbed through the skin.

Xylene (CAS 1330-20-7) Germany DFG MAK (advisory): Skin designation

Xylene (CAS 1330-20-7) Can be absorbed through the skin.

Germany TRGS 900 Limit Values: Skin designation

Xylene (CAS 1330-20-7) Can be absorbed through the skin. **Greece OEL: Skin designation** Xylene (CAS 1330-20-7) Can be absorbed through the skin.

Hungary OELs: Skin designation Xylene (CAS 1330-20-7) Can be absorbed through the skin. Iceland OELs: Skin designation

Xylene (CAS 1330-20-7) Can be absorbed through the skin. Ireland Exposure Limit Values: Skin designation

Xylene (CAS 1330-20-7) Can be absorbed through the skin.

Italy OELs: Skin designation

Xylene (CAS 1330-20-7) Danger of cutaneous absorption

Latvia OELs: Skin designation

Xylene (CAS 1330-20-7) Can be absorbed through the skin.

Lithuania OELs: Skin designation

Benzene, 1-chloro-4-(trifluoromethyl)- (CAS 98-56-6)

Xylene (CAS 1330-20-7)

Can be absorbed through the skin.

Can be absorbed through the skin.

Luxembourg OELs: Skin designation

Xylene (CAS 1330-20-7)

Can be absorbed through the skin.

Malta OELs: Skin designation

Xylene (CAS 1330-20-7) Can be absorbed through the skin.

Netherlands OELs (binding): Skin designation

Xylene (CAS 1330-20-7) Can be absorbed through the skin.

Norway Exposure Limit Values: Skin designation

Xylene (CAS 1330-20-7) Can be absorbed through the skin.

Portugal OELs: Skin designation

Xylene (CAS 1330-20-7) Can be absorbed through the skin.

Romania OELs: Skin designation

Xylene (CAS 1330-20-7) Can be absorbed through the skin.

Slovakia OELs for Carcinogens and Mutagens: Skin designation

Nickel (CAS 7440-02-0) Can be absorbed through the skin.

Slovakia OELs: Skin designation

Xylene (CAS 1330-20-7)

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)

Xylene (CAS 1330-20-7) Can be absorbed through the skin.

Spain OELs: Skin designation

Xylene (CAS 1330-20-7)

Can be absorbed through the skin.

Sweden Threshold Limit Values: Skin designation

Xylene (CAS 1330-20-7) Can be absorbed through the skin.

Switzerland SUVA Limit Values at the Workplace: Skin designation

Xylene (CAS 1330-20-7)

Can be absorbed through the skin.

UK EH40 WEL: Skin designation

Nickel (CAS 7440-02-0)

Xylene (CAS 1330-20-7)

Can be absorbed through the skin.

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. General ventilation normally adequate. Provide easy access to water supply or an

emergency shower.

Individual protection measures, such as personal protective equipment

General informationUse personal protective equipment as required. Personal protection equipment should be chosen

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

equipment.

Eye/face protection Wear safety glasses with side shields (or goggles) and a face shield. Wear a full-face respirator, if

needed. Eye protection should meet standard EN 166.

Skin protection

- Hand protection Wear suitable gloves tested to EN374. Glove material: Nitrile. Use gloves with breakthrough time

of 151 +/- 8 minutes. Minimum glove thickness 0.381 (15 mil) mm. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove

material.

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

Respiratory protection If engineering controls do not maintain airborne concentrations below recommended exposure

limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Wear respiratory protection with combination filter (dust and gas filter) during spraying operations. Use filter type (ABEK2/P3)

according to EN 143. Check with respiratory protective equipment suppliers.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

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

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 stateLiquid.FormLiquid.ColourRed.

Odour Characteristic of solvents.

Odour threshold Property has not been measured.

Melting point/freezing point Technically not possible to determine.

Boiling point or initial boiling

point and boiling range

97 - 139 °C (206,6 - 282,2 °F)

Flammability Flammable liquid and vapour.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) 0,9 % (oxsol) **Explosive limit - upper** 10,5 % (oxsol)

(%)

Flash point $24 \,^{\circ}\text{C} \, (75,2 \,^{\circ}\text{F}) \, \text{Closed cup}$ Auto-ignition temperature $> 500 \,^{\circ}\text{C} \, (> 932 \,^{\circ}\text{F}) \, (\text{oxsol})$ Decomposition temperature $377,1 \,^{\circ}\text{C} \, (710,7 \,^{\circ}\text{F})$

pH Not applicable (material is insoluble in water).

Kinematic viscosity 450 mm²/s (25 °C (77 °F))

Solubility

Solubility (water) (< 0,1%) Insoluble in water.

Partition coefficient Not applicable, product is a mixture.

(n-octanol/water) (log value)

Vapour pressure 5,3 mmHg (oxsol) (20 °C (68 °F))

Density and/or relative density

 Density
 1,55 g/cm³ (25 °C (77 °F))

 Relative density
 1,55 (Water=1) (25 °C (77 °F))

 Vapour density
 > 1 (Air=1) (25 °C (77 °F))

Particle characteristics

Particle size Does not contain nanomaterials.

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 rateProperty has not been measured.FlammabilityFlammable liquid and vapour.ViscosityProperty has not been measured.

VOC 679,75 g/l (EU VOC) 49,72 g/l (US VOC)

5,8 lb/gal (EU VOC) 0,41 lb/gal (US VOC)

Other safety Total weight solids: 56.15 % w/w characteristics Total volume solids: 39.36 % v/v

SECTION 10: Stability and reactivity

10.1. ReactivityThe 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 No dangerous reaction known under conditions of normal use.

reactions

10.4. Conditions to avoid Keep away from heat, hot surfaces, sparks, open flames and other ignition sources, Avoid

temperatures exceeding the flash point. Protect against direct sunlight. Contact with incompatible

materials.

10.5. Incompatible materials

Strong acids. Strong oxidising agents. Strong reducing agents. Halogens. 10.6. Hazardous

decomposition products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or

vapours. Aldehydes. Chlorine compounds. Fluorine compounds. Fumes of metal oxides.

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 through prolonged or repeated exposure by inhalation. Suspected Inhalation

of damaging fertility or the unborn child by inhalation.

Skin contact May cause an allergic skin reaction. Causes mild skin irritation.

Direct contact with eyes may cause temporary irritation. Eye contact

Ingestion May cause discomfort if swallowed.

Symptoms Direct contact with eyes may cause temporary irritation. Mild skin irritation. May cause an allergic

skin reaction. Dermatitis. Rash. Prolonged exposure may cause chronic effects.

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

Acute toxicity Not expected to be acutely toxic.

Components **Test Results Species** Ethylbenzene (CAS 100-41-4) **Acute Dermal** LD50 Rabbit 15400 mg/kg Inhalation LC50 Rat 17,4 mg/l, 4 hours Oral

LD50 Rat 3500 - 4700 mg/kg

Talc (CAS 14807-96-6)

Acute Oral

LD50 Rat > 5000 mg/kg

Xylene (CAS 1330-20-7)

Acute

Oral LD50

Rat 3523 mg/kg

Zinc oxide (CAS 1314-13-2)

Acute

Inhalation

LC50 Mouse > 5,7 mg/l, 4 Hours

Oral

LD50 > 5000 mg/kg Rat

Skin corrosion/irritation Serious eye damage/eye

Respiratory sensitisation

irritation

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

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

May cause an allergic skin reaction. Skin sensitisation

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

Carcinogenicity Suspected of causing cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

Benzene, 1-chloro-4-(trifluoromethyl)- (CAS 98-56-6)

Chromium (CAS 7440-47-3) Nickel (CAS 7440-02-0)

Xylene (CAS 1330-20-7)

2B Possibly carcinogenic to humans.

3 Not classifiable as to carcinogenicity to humans.

2B Possibly carcinogenic to humans.

3 Not classifiable as to carcinogenicity to humans.

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

Nickel (CAS 7440-02-0) Carcinogenic, Category 2.

Suspected of damaging fertility or the unborn child by inhalation. Reproductive toxicity

Specific target organ toxicity -

single exposure

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

Specific target organ toxicity repeated exposure

May cause damage to organs (respiratory tract) through prolonged or repeated exposure by inhalation.

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

Mixture versus substance

information

No information available.

11.2. Information on other hazards

Endocrine disrupting properties

The mixture contains substance(s) considered to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or

Commission Regulation (EU) 2018/605.

Symptoms may be delayed. Other information

SECTION 12: Ecological information

12.1. Toxicity Toxic to aquatic life with long lasting effects.

Components **Species Test Results** Copper (CAS 7440-50-8) Aquatic Chronic Other NOEC Juga plicifera 6 µg/l Nickel (CAS 7440-02-0) Aquatic Acute EC50 Water flea (Daphnia magna) 1 mg/l, 48 hours Crustacea LC50 >= 7,35 - <= 12,12 mg/l, 96 hours Calanoid copepod (Eurytemora affinis) Xylene (CAS 1330-20-7) Aquatic

Fish LC50 Rainbow trout, donaldson trout 2,6 mg/l, 96 hours

(Oncorhynchus mykiss)

12.2. Persistence and

degradability

No data is available on the degradability of this product.

12.3. Bioaccumulative potential

Partition coefficient Not applicable, product is a mixture.

n-octanol/water (log Kow)

Benzene, 1-chloro-4-(trifluoromethyl)- (CAS 98-56-6) 3,6 tert-Butyl acetate (CAS 540-88-5) 1.76

Bioconcentration factor (BCF)

Not available.

12.4. Mobility in soil

The product is insoluble in water. Not expected to be mobile in soil.

12.5. Results of PBT and vPvB

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. Endocrine disrupting

properties

The mixture contains substance(s) considered to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or

Commission Regulation (EU) 2018/605.

12.7. Other adverse effects

The product contains volatile organic compounds which have a photochemical ozone creation potential.

12.8. Additional information

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Estonia Dangerous substances in soil Data

Chromium (CAS 7440-47-3) Chromium (Cr) 100 mg/kg Chromium (Cr) 300 mg/kg Chromium (Cr) 800 mg/kg Copper (CAS 7440-50-8) Copper (Cu) 100 mg/kg Copper (Cu) 150 mg/kg Copper (Cu) 500 mg/kg

Nickel (CAS 7440-02-0) Nickel (Ni) 150 mg/kg Nickel (Ni) 50 mg/kg

Nickel (Ni) 500 mg/kg Zinc (Zn) 1000 mg/kg trizinc bis(orthophosphate) (CAS 7779-90-0) Zinc (Zn) 200 mg/kg Zinc (Zn) 500 mg/kg Zinc oxide (CAS 1314-13-2) Zinc (Zn) 1000 mg/kg

Zinc (Zn) 200 mg/kg Zinc (Zn) 500 mg/kg

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Dispose 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.

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

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

disposal. Do not re-use empty containers.

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

disposal company.

08 01 11

Disposal methods/information Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the

material under controlled conditions in an approved incinerator. 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 D/E **Tunnel restriction code** 14.4. Packing group Ш 14.5. Environmental hazards Yes

14.6. Special precautions

Read safety instructions, SDS and emergency procedures before handling.

RID

UN1263 14.1. UN number 14.2. UN proper shipping Paint

name

for user

14.3. Transport hazard class(es)

Class 3 Subsidiary risk 3 Label(s) Ш 14.4. Packing group 14.5. Environmental hazards

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)

3 Class Subsidiary risk 3 Label(s) 14.4. Packing group Ш 14.5. Environmental hazards Yes

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

for user

IATA

14.1. UN number UN1263

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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 Yes
FRG Code 3I

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

for user

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

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

for user

14.7. Maritime transport in bulk Not established.

according to IMO instruments

SECTION 15: Regulatory information

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

EU regulations

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

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

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended Not listed.

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

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

Chromium (CAS 7440-47-3) Copper (CAS 7440-50-8) Nickel (CAS 7440-02-0) Talc (CAS 14807-96-6)

trizinc bis(orthophosphate) (CAS 7779-90-0)

Xylene (CAS 1330-20-7) Zinc oxide (CAS 1314-13-2)

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

Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended - Conditions of restriction given for the associated entry number should be considered

trizinc bis(orthophosphate) (CAS 7779-90-0) 3

Xylene (CAS 1330-20-7) 75

Zinc oxide (CAS 1314-13-2) 3

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

Not listed.

Regulation 2019/1148 on Marketing and Use of Explosive Precursors, Annex I, as amended

Not listed

Regulation 2019/1148 on Marketing and Use of Explosive Precursors, Annex II, as amended

Not listed.

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

ANNEX 1, PART 1 Categories of dangerous substances

Hazard categories in accordance with Regulation (EC) No 1272/2008

- P5a, b or c FLAMMABLE LIQUIDS

- E2 Hazardous to the Aquatic Environment Chronic

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 for work with chemical agents in accordance with Directive 98/24/EC, as amended.

Contains a substance which is included on the TRGS 905 list of carcinogenic, germ cell mutagenic and reproductive toxic substances

Zinc oxide (CAS 1314-13-2)

Anorganische Faserstäube, soweit nicht erwähnt (ausgenommen

Gipsfasernund Wollastonitfasern)

Contains a substance which is included on the TRGS 907 list of registry of sensitizing substances

Nickel (CAS 7440-02-0) Nickelverbindungen, Wasserlösliche insbesondere Ni-sulfat und

Ni-dichlorid

France regulations

France INRS Table of Occupational Diseases

Talc (CAS 14807-96-6) Affections consécutives à l'inhalation de poussières minérales

renfermant de la silicecristalline (quartz, cristobalite, tridymite), des silicates cristallins (kaolin, talc), du graphite ou de la houille

25

tert-Butyl acetate (CAS 540-88-5)

Affections engendrées par les solvants organiques liquides à

usage professionnel : hydrocarbures liquides aliphatiques ou cycliques saturés ou insaturés et leurs mélanges; hydrocarbures halogénés liquides; dérivés nitrés des hydrocarbures aliphatiques;

al 84

15.2. Chemical safety

assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany).

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.

EC50: Effective Concentration 50%.

IATA: International Air Transport Association.

IMDG Code: International Maritime Dangerous Goods Code.

IMO: International Maritime Organization.

KTV: Short term exposure limit LC50: Lethal Concentration 50%.

LD50: Lethal Dose 50%.

MAC: Maximum Allowed Concentration. PBT: Persistent, bioaccumulative, toxic.

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

STEL: Short-Term Exposure Limit. TLV: Threshold Limit Value.

TWA: Time Weighed Average Value.

VLE: Exposure Limit Value. VME: Exposure Average Value.

vPvB: very Persistent, very Bioaccumulative.

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SDS EU

References

ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices

ECHA: European Chemical Agency.

EPA: AQUIRE database

HSDB® - Hazardous Substances Data Bank

IARC Monographs. Overall Evaluation of Carcinogenicity National Toxicology Program (NTP) Report on Carcinogens

NLM: Hazardous Substances Data Base

Information on evaluation method leading to the classification of mixture

Full text of any statements, which are not written out in full under sections 2 to 15

methods and test data, if available.

The classification for health and environmental hazards is derived by a combination of calculation

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.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer.

H361 Suspected of damaging fertility or the unborn child.

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. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. Follow training instructions when handling this material.

Training information

Disclaimer

Stainless Steel Coatings, Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the

product, and to assume liability for loss, injury, damage or expense due to improper use.

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