

SAFETY DATA SHEET

Version #: 01 Issue date: 23-September-2023 Revision date: -Supersedes date: -

SECTION 1: Identification	of the substance/mixture and of the company/undertaking
1.1. Product identifier	
Trade name or designation of the mixture	STEEL-IT 6811 Equipment Cleaning Blend
Registration number	-
Synonyms	None.
SDS number	SDS-6811
Product code	FGTH6811-G (gallon), FGTH6811-5G (5-gallon pail), FGTH6811-DM (55-gallon drum)
1.2. Relevant identified uses of t	he substance or mixture and uses advised against
Identified uses	Equipment Cleaning Blend for STEEL-IT 4907 (A&B) and 4210 (A&B) epoxy products.
Uses advised against	Uses other than the recommended use.
1.3. Details of the supplier of the	e 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.)

Estonia National Poisons Information Centre	16662 or abroad: (+372) 626 9390 (Monday 9:00AM to Saturday 9:00AM (closed on Sundays and on national holidays). SDS/Product information may not be available for the Emergency Service.)
Finland National Poison Information Centre	(09) 471 977 (direct) or (09) 4711 (exchange) (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
France National Poisons Control Centre	ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Greece Poison Information Centre telephone number	(0030) 2107793777 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Hungary National Emergency Phone Number	+36-80-201-199 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Iceland Poison Centre	(+354) 543 2222 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Latvia Emergency medical aid	113
Latvia Poison and Drug Information Centre	+371 67042473 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Lithuania Neatidėliotina informacija apsinuodijus	+370 5 236 20 52 or +37068753378 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)
Malta Accident and Emergency Department	2545 4030 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)
Netherlands National Poisons Information Centre (NVIC)	NVIC: +31 (0)88 755 8000 (Only for the purpose of informing medical personnel in cases of acute intoxications)
Norway Norwegian Poison Information Centre	22 59 13 00 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Portugal Poison Centre	800 250 250 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Romania Biroul RSI si Informare Toxicologica	021.318.36.06 (Available 8:00AM-3:00PM. SDS/Product information may not be available for the Emergency Service.)
Slovakia National Toxicological Information Centre	+421 2 5477 4166 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Spain Toxicology Information Service	+ 34 91 562 04 20 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Sweden National Poison Information Centre	112 - and ask for Poison Information (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Switzerland Tox Info Suisse	145 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Ireland National Poisons Information Centre	353 (1) 809 2566 Healthcare Professionals: 24 hours, 7 days a week

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	Category 2	H225 - Highly flammable liquid and vapour.
Health hazards		
Skin corrosion/irritation	Category 2	H315 - Causes skin irritation.
Serious eye damage/eye irritation	Category 2	H319 - Causes serious eye irritation.
Carcinogenicity	Category 2	H351 - Suspected of causing cancer.
Specific target organ toxicity - single exposure	Category 3 respiratory tract irritation	H335 - May cause respiratory irritation.

Specific target organ toxi exposure	icity - single	Category 3 narcotic effects	H336 - May cause drowsiness or dizziness.	
Specific target organ toxi exposure	icity - repeated	Category 2 (central nervous system, kidneys, liver)	H373 - May cause damage to organs (central nervous system, kidneys, liver) through prolonged or repeated exposure.	
Aspiration hazard		Category 1	H304 - May be fatal if swallowed and enters airways.	
2.2. Label elements				
Label according to Regulation ((EC) No. 1272/200	8 as amended		
Contains:	1-Methoxy-2-pro o-Xylene, p-Xyle	opanol, 4-methylpentan-2-one; isobutyl metl ene	hyl ketone, Ethylbenzene, m-Xylene,	
Hazard pictograms				
Signal word	Danger	• •		
Hazard statements				
H225	Highly flammabl	e liquid and vapour.		
H304	May be fatal if s	wallowed and enters airways.		
H315	Causes skin irrit			
H319	Causes serious			
H335	May cause resp			
H336	Suspected of ca	vsiness or dizziness.		
H351 H373		age to organs (central nervous system, kidr	neys, liver) through prolonged or	
Precautionary statements				
Prevention				
P210	Keep away from	n heat, hot surfaces, sparks, open flames ar	nd other ignition sources. No smoking.	
P260		mist/vapours/spray.		
P280	Wear protective	gloves/protective clothing/eye protection/fa	ce protection.	
Response				
P301 + P310	IF SWALLOWE	D: Immediately call a POISON CENTRE/do	ctor.	
P331	Do NOT induce	vomiting.		
P370 + P378	In case of fire: L	lse water fog, foam, dry chemical powder, c	arbon dioxide to extinguish.	
Storage				
P403 + P235	Store in a well-v	entilated place. Keep cool.		
Disposal	Not assigned.			
Supplemental information on the label	None.			
2.3. Other hazards	bioaccumulative 0.1% or higher. The mixture doe REACH Article 9 greater than 0.1 The mixture doe accordance with	mixture contains no components considered and toxic (PBT), or very persistent and ver so not contain any substances included in th 59(1) for having endocrine disrupting proper % by weight. so not contain any substances having endoc the criteria set out in Commission Delegate gulation (EU) 2018/605 at a concentration e	y bioaccumulative (vPvB) at levels of ne list established in accordance with rties at a concentration equal to or crine disrupting properties in ed Regulation (EU) 2017/2100 or	
SECTION 3: Composition	/information o	n ingredients		
3.2. Mixtures		-		
General information				

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
1-Methoxy-2-propanol	30 - 40	107-98-2 203-539-1	-	603-064-00-3	#
Classificatio	n: Flam I ia	3-H226 STOT SE 3-H	1336		

Classification: Flam. Liq. 3;H226, STOT SE 3;H336

1 mothulnonton 2 ana		%	CAS-No. / EC	No. RE	ACH Registration	No. Index No.	Notes
4-methylpentan-2-one; methyl ketone	; isobutyl	30 - 40	108-10-1 203-550-1		-	606-004-00-4	#
	Classification	Flam. Liq. Carc. 2;H3	2;H225, Acute T 51, STOT SE 3	ox. 4;H33 H336	2;(ATE: 11 mg/l), E	iye Irrit. 2;H319,	
Supple	mental Hazard Statement(s)						
m-Xylene		10 - 20	108-38-3 203-576-3		-	601-022-00-9	#
	Classification	4;H332;(A		in Irrit. 2;F	2;(ATE: 1100 mg/k I315, Eye Irrit. 2;H3 p. Tox. 1;H304		
Ethylbenzene		5 - 10	100-41-4 202-849-4		-	601-023-00-4	#
	Classification		2;H225, Acute T sp. Tox. 1;H304,		2;(ATE: 17,4 mg/l), Chronic 3;H412	STOT RE	
p-Xylene		5 - 10	106-42-3 203-396-5	1	-	601-022-00-9	#
	Classification	4;H332;(A		in Irrit. 2;⊦	2;(ATE: 1100 mg/k l315, Eye Irrit. 2;H3 p. Tox. 1;H304		
o-Xylene		1 - 10	95-47-6 202-422-2		-	601-022-00-9	#
	Classification	4;H332;(A		in Irrit. 2;⊦	2;(ATE: 1100 mg/k l315, Eye Irrit. 2;H3 p. Tox. 1;H304		
Toluene		< 0,2	108-88-3 203-625-9		-	601-021-00-3	#
	Classification				Repr. 2;H361d, ST , Aquatic Chronic 3		
st of abbreviations and #: This substance has	-	-		limit(s).			
ATE: Acute toxicity est	timate.						
omposition comments	All co	ncentrations		by weight	unless ingredient is	a gas. Gas concentra rdous or are below rep	
omposition comments ECTION 4: First aid	All co perce	ncentrations	are in percent b	by weight	unless ingredient is		
ECTION 4: First aid	All co perce I measures Take advice that m	ncentrations nt by volum off all conta dattention. I edical perso	are in percent t e. Components i ninated clothing f you feel unwel	immedial , seek me	unless ingredient is are either non-haza ely. IF exposed or o dical advice (show terial(s) involved, a		oortable lim al ble). Ensur
ECTION 4: First aid eneral information	All col perce I measures Take advice that m thems id measures	ncentrations nt by volume off all conta e/attention. I edical perse elves. Was	are in percent b e. Components i minated clothing f you feel unwel onnel are aware n contaminated o	immediat seek me of the ma clothing b	unless ingredient is are either non-haza ely. IF exposed or o dical advice (show terial(s) involved, a efore reuse.	rdous or are below rep concerned: Get medic the label where possil nd take precautions to	oortable lim al ble). Ensur protect
ECTION 4: First aid eneral information 1. Description of first ai Inhalation	All col perce I measures Take advice that m thems id measures Remo centre	ncentrations nt by volume off all conta e/attention. I edical perse elves. Was ve victim to or doctor/p	are in percent b e. Components i minated clothing f you feel unwel onnel are aware n contaminated o fresh air and ke hysician if you fe	immediat iseek me of the ma clothing b ep at rest eel unwell	unless ingredient is are either non-haza ely. IF exposed or o dical advice (show terial(s) involved, a efore reuse. in a position comfo	rdous or are below rep concerned: Get medic the label where possil nd take precautions to rtable for breathing. C	oortable lim al ble). Ensur protect all a poisor
ECTION 4: First aid eneral information 1. Description of first ai Inhalation Skin contact	All col perce I measures Take advice that m thems id measures Remo centre Take occurs	ncentrations nt by volume off all conta e/attention. I edical perse elves. Was ve victim to or doctor/p off immedia s: Get media	are in percent b e. Components i minated clothing f you feel unwel onnel are aware n contaminated o fresh air and ke hysician if you fe tely all contamin cal advice/attent	immediat in seek me of the ma clothing be ep at rest eel unwell ated cloth ion.	unless ingredient is are either non-haza ely. IF exposed or o dical advice (show terial(s) involved, a efore reuse. in a position comfo ing. Rinse skin with	rdous or are below rep concerned: Get medica the label where possil nd take precautions to rtable for breathing. C water/shower. If skin	oortable lim al ble). Ensur protect all a poisor irritation
ECTION 4: First aid eneral information 1. Description of first ai Inhalation Skin contact Eye contact	All col percer I measures Take advice that m thems id measures Remo centre Take occurs Imme prese	ncentrations int by volume off all contain edical persection. I edical persection elves. Wash we victim to or doctor/p off immedia s: Get media diately flush int and easy	are in percent b e. Components i minated clothing f you feel unwel onnel are aware n contaminated fresh air and ke hysician if you fe tely all contamin cal advice/attent eyes with plenty to do. Continue	immediat isseek me of the ma clothing b ep at rest eel unwell ated cloth ion. y of water rinsing. G	unless ingredient is are either non-haza ely. IF exposed or o idical advice (show terial(s) involved, a efore reuse. in a position comfo ing. Rinse skin with for at least 15 minu et medical attentior	rdous or are below rep concerned: Get medica the label where possil nd take precautions to rtable for breathing. C water/shower. If skin thes. Remove contact I n if irritation develops a	oortable lim al ole). Ensur protect all a poisor irritation enses, if and persist
ECTION 4: First aid eneral information 1. Description of first ai Inhalation Skin contact Eye contact Ingestion	All con percent d measures Take advice that m thems id measures Remo centre Take occurs Imme prese Call a vomiti	ncentrations int by volume off all contain (attention. I edical perse elves. Wash we victim to or doctor/p off immedia s: Get media diately flush int and easy physician of ng occurs, I	are in percent b e. Components i minated clothing f you feel unwel onnel are aware n contaminated of fresh air and ke hysician if you fe tely all contamin cal advice/attent eyes with plenty to do. Continue r poison control keep head low se	immediat I, seek me of the ma clothing b ep at rest eel unwell ated cloth ion. y of water rinsing. G centre im o that stor	unless ingredient is are either non-haza ely. IF exposed or o dical advice (show terial(s) involved, a efore reuse. in a position comfo ing. Rinse skin with for at least 15 minu et medical attention mediately. Rinse minach content doesr	rdous or are below rep concerned: Get medica the label where possil nd take precautions to rtable for breathing. C water/shower. If skin thes. Remove contact I n if irritation develops a outh. Do not induce vo 't get into the lungs.	oortable lim al ble). Ensure protect all a poisor irritation enses, if and persists omiting. If
ECTION 4: First aid eneral information 1. Description of first ai Inhalation Skin contact Eye contact	All con percent i measures Take a advice that m thems id measures Remo centre Take a occurs Imme prese Call a vomiti otoms Aspira nd Narco Decre redne	ncentrations int by volume off all contain (attention. I edical perse elves. Wash we victim to or doctor/p off immedia s: Get media diately flush int and easy physician of ng occurs, I tion may ca sis. Headac ase in moto ss, swelling ss and pain	are in percent b e. Components in minated clothing f you feel unwel onnel are aware n contaminated of fresh air and ke hysician if you for tely all contamin cal advice/attent eyes with plenty to do. Continue r poison control ceep head low se iuse pulmonary he. Nausea, vor r functions. Seve and blurred vis Jaundice. Prolo	immediat immediat l, seek me of the ma clothing b ep at rest eel unwell ated cloth ion. y of water rinsing. G centre im o that stor oedema a miting. Ab ere eye im ion. May o onged exp	unless ingredient is are either non-haza ely. IF exposed or o dical advice (show terial(s) involved, a efore reuse. in a position comfo ing. Rinse skin with for at least 15 minu et medical attention mediately. Rinse minu nach content doesr nd pneumonitis. Ma dominal pain. Diarrl itation. Symptoms i ause respiratory irr osure may cause c	rdous or are below rep concerned: Get medica the label where possil nd take precautions to rtable for breathing. C water/shower. If skin ites. Remove contact I n if irritation develops a outh. Do not induce vo of get into the lungs. ay cause drowsiness of noea. Behavioural cha may include stinging, t itation. Skin irritation.	al ble). Ensur- protect all a poisor irritation enses, if and persist omiting. If or dizziness nges. earing, May cause

SECTION 5: Firefighting measures

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protect	ctive 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
handlingObtain 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. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. 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).
	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)
7.3. Specific end use(s)	Equipment Cleaning Blend for STEEL-IT 4907 (A&B) and 4210 (A&B) epoxy products. 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	
1-Methoxy-2-propanol (CAS 107-98-2)	Ceiling	187 mg/m3	
		50 ppm	
	MAK	187 mg/m3	
		50 ppm	
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	МАК	83 mg/m3	
		20 ppm	
	STEL	208 mg/m3	
		50 ppm	
Ethylbenzene (CAS 100-41-4)	Ceiling	880 mg/m3	
		200 ppm	
	MAK	440 mg/m3	
		100 ppm	
m-Xylene (CAS 108-38-3)	MAK	221 mg/m3	
		50 ppm	
	STEL	442 mg/m3	
		100 ppm	
o-Xylene (CAS 95-47-6)	MAK	221 mg/m3	
		50 ppm	
	STEL	442 mg/m3	
		100 ppm	
o-Xylene (CAS 106-42-3)	MAK	221 mg/m3	
		50 ppm	
	STEL	442 mg/m3	
		100 ppm	
Toluene (CAS 108-88-3)	MAK	190 mg/m3	
		50 ppm	
	STEL	380 mg/m3	
		100 ppm	

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	
1-Methoxy-2-propanol (CAS 107-98-2)	STEL	369 mg/m3	

Chemical agents, as amended Components	Туре	Value	
		100 ppm	
	TWA	184 mg/m3	
		50 ppm	
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	STEL	208 mg/m3	
		50 ppm	
	TWA	83 mg/m3	
		20 ppm	
Ethylbenzene (CAS 100-41-4)	STEL	551 mg/m3	
		125 ppm	
	TWA	87 mg/m3	
		20 ppm	
m-Xylene (CAS 108-38-3)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	
o-Xylene (CAS 95-47-6)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	
p-Xylene (CAS 106-42-3)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	
Toluene (CAS 108-88-3)	STEL	384 mg/m3	
		100 ppm	
	TWA	77 mg/m3	
		20 ppm	

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

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

Components	Туре	Value	
1-Methoxy-2-propanol (CAS 107-98-2)	STEL	568 mg/m3	
		150 ppm	
	TWA	375 mg/m3	
		100 ppm	
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	STEL	200 mg/m3	
	TWA	50 mg/m3	
Ethylbenzene (CAS 100-41-4)	STEL	545 mg/m3	
	TWA	435 mg/m3	
m-Xylene (CAS 108-38-3)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	
o-Xylene (CAS 95-47-6)	STEL	442 mg/m3	
		100 ppm	

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

Components	Туре	Value	
	TWA	221 mg/m3	
		50 ppm	
p-Xylene (CAS 106-42-3)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	
Toluene (CAS 108-88-3)	STEL	384 mg/m3	
		100 ppm	
	TWA	192 mg/m3	
		50 ppm	

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
1-Methoxy-2-propanol (CAS 107-98-2)	MAC	375 mg/m3
		100 ppm
	STEL	568 mg/m3
		150 ppm
4-methylpentan-2-one; sobutyl methyl ketone (CAS 108-10-1)	MAC	83 mg/m3
		20 ppm
	STEL	208 mg/m3
		50 ppm
Ethylbenzene (CAS 100-41-4)	MAC	442 mg/m3
		100 ppm
	STEL	884 mg/m3
		200 ppm
m-Xylene (CAS 108-38-3)	MAC	221 mg/m3
		50 ppm
	STEL	442 mg/m3
		100 ppm
o-Xylene (CAS 95-47-6)	MAC	221 mg/m3
		50 ppm
	STEL	442 mg/m3
		100 ppm
o-Xylene (CAS 106-42-3)	MAC	221 mg/m3
		50 ppm
	STEL	442 mg/m3
		100 ppm
Foluene (CAS 108-88-3)	MAC	192 mg/m3
		50 ppm
	STEL	384 mg/m3
		100 ppm

Cyprus. 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	Гуре	Value
1-Methoxy-2-propanol (CAS 107-98-2)	STEL	568 mg/m3

Cyprus. 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	Туре	Value	
		150 ppm	
	TWA	375 mg/m3	
		100 ppm	
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	STEL	208 mg/m3	
		50 ppm	
	TWA	83 mg/m3	
		20 ppm	
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
		100 ppm	
m-Xylene (CAS 108-38-3)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	
o-Xylene (CAS 95-47-6)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	
p-Xylene (CAS 106-42-3)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	
Toluene (CAS 108-88-3)	STEL	384 mg/m3	
		100 ppm	
	TWA	192 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	Туре	Value	
1-Methoxy-2-propanol (CAS 107-98-2)	Ceiling	550 mg/m3	
	TWA	270 mg/m3	
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	Ceiling	200 mg/m3	
	TWA	80 mg/m3	
Ethylbenzene (CAS 100-41-4)	Ceiling	500 mg/m3	
	TWA	200 mg/m3	
m-Xylene (CAS 108-38-3)	Ceiling	400 mg/m3	
	TWA	200 mg/m3	
o-Xylene (CAS 95-47-6)	Ceiling	400 mg/m3	
	TWA	200 mg/m3	
p-Xylene (CAS 106-42-3)	Ceiling	400 mg/m3	
	TWA	200 mg/m3	
Toluene (CAS 108-88-3)	Ceiling	384 mg/m3	
	TWA	192 mg/m3	

Components	Туре	Value	
1-Methoxy-2-propanol (CAS 107-98-2)	TLV	185 mg/m3	
		50 ppm	
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	TLV	83 mg/m3	
		20 ppm	
Ethylbenzene (CAS 100-41-4)	TLV	217 mg/m3	
		50 ppm	
m-Xylene (CAS 108-38-3)	TLV	109 mg/m3	
		25 ppm	
o-Xylene (CAS 95-47-6)	TLV	109 mg/m3	
		25 ppm	
p-Xylene (CAS 106-42-3)	TLV	109 mg/m3	
		25 ppm	
Toluene (CAS 108-88-3)	TLV	94 mg/m3	
		25 ppm	

Denmark. Work Environment Authority. Exposure Limits for Substances & Materials, Annex 2

Estonia. OELs. Occupational Exposure Limits of Hazardous Substances (Regulation No. 105/2001, Annex), as amended Components Type Value

Components	Туре	Value	
1-Methoxy-2-propanol (CAS 107-98-2)	STEL	568 mg/m3	
		150 ppm	
	TWA	375 mg/m3	
		100 ppm	
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	STEL	208 mg/m3	
		50 ppm	
	TWA	83 mg/m3	
		20 ppm	
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
		100 ppm	
m-Xylene (CAS 108-38-3)	STEL	450 mg/m3	
		100 ppm	
	TWA	200 mg/m3	
		50 ppm	
o-Xylene (CAS 95-47-6)	STEL	450 mg/m3	
		100 ppm	
	TWA	200 mg/m3	
		50 ppm	
p-Xylene (CAS 106-42-3)	STEL	450 mg/m3	
		100 ppm	
	TWA	200 mg/m3	
		50 ppm	
Toluene (CAS 108-88-3)	STEL	384 mg/m3	
		100 ppm	
	TWA	192 mg/m3	
		50 ppm	

Components	Туре	Value	
1-Methoxy-2-propanol (CAS 107-98-2)	STEL	560 mg/m3	
		150 ppm	
	TWA	370 mg/m3	
		100 ppm	
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	STEL	210 mg/m3	
		50 ppm	
	TWA	80 mg/m3	
		20 ppm	
Ethylbenzene (CAS 100-41-4)	STEL	880 mg/m3	
		200 ppm	
	TWA	220 mg/m3	
		50 ppm	
m-Xylene (CAS 108-38-3)	STEL	440 mg/m3	
		110 ppm	
	TWA	220 mg/m3	
		50 ppm	
o-Xylene (CAS 95-47-6)	STEL	440 mg/m3	
		110 ppm	
	TWA	220 mg/m3	
		50 ppm	
p-Xylene (CAS 106-42-3)	STEL	440 mg/m3	
		110 ppm	
	TWA	220 mg/m3	
		50 ppm	
Toluene (CAS 108-88-3)	STEL	380 mg/m3	
		100 ppm	
	TWA	81 mg/m3	
		25 ppm	

Finland. HTP-arvot, App 3., Binding Limit Values, Social Affairs and Ministry of Health

France. OELs. Occupational Exposure Limits as Prescribed by Art. R.4412-149 of Labor Code, as amended Value Componente Turne

Components	Туре	Value	
1-Methoxy-2-propanol (CAS 107-98-2)	VLE	375 mg/m3	
		100 ppm	
	VME	188 mg/m3	
		50 ppm	
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	VLE	208 mg/m3	
		50 ppm	
	VME	83 mg/m3	
		20 ppm	
Ethylbenzene (CAS 100-41-4)	VLE	442 mg/m3	
		100 ppm	
	VME	88,4 mg/m3	
		20 ppm	
m-Xylene (CAS 108-38-3)	VLE	442 mg/m3	
		100 ppm	

Components	Туре	Value	
	VME	221 mg/m3	
		50 ppm	
o-Xylene (CAS 95-47-6)	VLE	442 mg/m3	
		100 ppm	
	VME	221 mg/m3	
		50 ppm	
p-Xylene (CAS 106-42-3)	VLE	442 mg/m3	
		100 ppm	
	VME	221 mg/m3	
		50 ppm	
Toluene (CAS 108-88-3)	VLE	384 mg/m3	
		100 ppm	
	VME	76,8 mg/m3	
		20 ppm	

France. OELs. Occupational Exposure Limits as Prescribed by Art. R.4412-149 of Labor Code, as amended

France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984ComponentsTypeValue

components	Туре	Value
1-Methoxy-2-propanol (CA 107-98-2)	S VLE	375 mg/m3
Regulatory status:	Regulatory binding (VRC)	
· · · · · · · · · · · · · · · · · · ·		100 ppm
Regulatory status:	Regulatory binding (VRC)	· · · · · · · · · · · · · · · · · · ·
Regulatory status.	VME	188 mg/m3
Degulatory status	Regulatory binding (VRC)	
Regulatory status:	Regulatory binding (VRC)	FO
		50 ppm
Regulatory status:	Regulatory binding (VRC)	
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	VLE	208 mg/m3
Regulatory status:	Regulatory binding (VRC)	
		50 ppm
Regulatory status:	Regulatory binding (VRC)	
	VME	83 mg/m3
Regulatory status:	Regulatory binding (VRC)	
· • • • • • • • •		20 ppm
Regulatory status:	Regulatory binding (VRC)	
Ethylbenzene (CAS	VLE	442 mg/m3
100-41-4)	VLL	112 119/110
Regulatory status:	Regulatory binding (VRC)	
		100 ppm
Regulatory status:	Regulatory binding (VRC)	
0	VME	88,4 mg/m3
Regulatory status:	Regulatory binding (VRC)	
		20 ppm
Regulatory status:	Regulatory binding (VRC)	
m-Xylene (CAS 108-38-3)		442 mg/m3
	Regulatory binding (VRC)	
Regulatory status:		100 ppm
De sudat de la trat	Desculators (hinding (1/DO)	100 ppm
Regulatory status:	Regulatory binding (VRC)	004 / 0
	VME	221 mg/m3
Regulatory status:	Regulatory binding (VRC)	
		50 ppm
Regulatory status:	Regulatory binding (VRC)	

Components	Туре	Value
o-Xylene (CAS 95-47-6)	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)	
p-Xylene (CAS 106-42-3)	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)	
Toluene (CAS 108-88-3)	VLE	384 mg/m3
Regulatory status:	Regulatory binding (VRC)	
		100 ppm
Regulatory status:	Regulatory binding (VRC)	
	VME	76,8 mg/m3
Regulatory status:	Regulatory binding (VRC)	
		20 ppm
Regulatory status:	Regulatory binding (VRC)	

France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984

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

Components	Туре	Value	
1-Methoxy-2-propanol (CAS 107-98-2)	TWA	370 mg/m3	
		100 ppm	
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	TWA	83 mg/m3	
		20 ppm	
Ethylbenzene (CAS 100-41-4)	TWA	88 mg/m3	
		20 ppm	
m-Xylene (CAS 108-38-3)	TWA	220 mg/m3	
		50 ppm	
o-Xylene (CAS 95-47-6)	TWA	220 mg/m3	
		50 ppm	
p-Xylene (CAS 106-42-3)	TWA	220 mg/m3	
		50 ppm	
Toluene (CAS 108-88-3)	TWA	190 mg/m3	
		50 ppm	
Germany. TRGS 900, Limit Values	in the Ambient Air at the Wo	rkplace	
Components	Туре	Value	
1-Methoxy-2-propanol (CAS 107-98-2)	AGW	370 mg/m3	
		100 ppm	
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	AGW	83 mg/m3	

Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace

Components	Туре	Value	
		20 ppm	
Ethylbenzene (CAS 100-41-4)	AGW	88 mg/m3	
		20 ppm	
m-Xylene (CAS 108-38-3)	AGW	220 mg/m3	
		50 ppm	
o-Xylene (CAS 95-47-6)	AGW	220 mg/m3	
		50 ppm	
p-Xylene (CAS 106-42-3)	AGW	220 mg/m3	
		50 ppm	
Toluene (CAS 108-88-3)	AGW	190 mg/m3	
		50 ppm	

Greece. OELs, Presidential Decree No. 307/1986, as amended Type

Components	Туре	Value	
1-Methoxy-2-propanol (CAS 107-98-2)	STEL	1080 mg/m3	
		300 ppm	
	TWA	360 mg/m3	
		100 ppm	
I-methylpentan-2-one; sobutyl methyl ketone CAS 108-10-1)	STEL	410 mg/m3	
,		100 ppm	
	TWA	410 mg/m3	
		100 ppm	
Ethylbenzene (CAS I00-41-4)	STEL	545 mg/m3	
		125 ppm	
	TWA	435 mg/m3	
		100 ppm	
n-Xylene (CAS 108-38-3)	STEL	650 mg/m3	
		150 ppm	
	TWA	435 mg/m3	
		100 ppm	
o-Xylene (CAS 95-47-6)	STEL	650 mg/m3	
		150 ppm	
	TWA	435 mg/m3	
		100 ppm	
o-Xylene (CAS 106-42-3)	STEL	650 mg/m3	
		150 ppm	
	TWA	435 mg/m3	
		100 ppm	
oluene (CAS 108-88-3)	STEL	384 mg/m3	
		100 ppm	
	TWA	192 mg/m3	
		50 ppm	

Components	Туре	Value	
1-Methoxy-2-propanol (CAS 107-98-2)	STEL	568 mg/m3	
	TWA	375 mg/m3	

Components	Туре	Value
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	STEL	208 mg/m3
	TWA	83 mg/m3
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3
	TWA	442 mg/m3
m-Xylene (CAS 108-38-3)	STEL	442 mg/m3
	TWA	221 mg/m3
o-Xylene (CAS 95-47-6)	STEL	442 mg/m3
	TWA	221 mg/m3
p-Xylene (CAS 106-42-3)	STEL	442 mg/m3
	TWA	221 mg/m3
Toluene (CAS 108-88-3)	STEL	380 mg/m3
	TWA	190 mg/m3

Hungary. OELs. Decree on protection of workers exposed to chemical agents (5/2020. (II.6)), Annex 1&2, as amended

Iceland. OELs. Regulation 390/2009 on Pollution Limits and Measures to Reduce Pollution at the Workplace, as amended

Components	Туре	Value
1-Methoxy-2-propanol (CAS 107-98-2)	STEL	568 mg/m3
		150 ppm
	TWA	185 mg/m3
		50 ppm
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	STEL	208 mg/m3
		50 ppm
	TWA	83 mg/m3
		20 ppm
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3
		200 ppm
	TWA	200 mg/m3
		50 ppm
m-Xylene (CAS 108-38-3)	STEL	442 mg/m3
		100 ppm
	TWA	109 mg/m3
		25 ppm
o-Xylene (CAS 95-47-6)	STEL	442 mg/m3
		100 ppm
	TWA	109 mg/m3
		25 ppm
p-Xylene (CAS 106-42-3)	STEL	442 mg/m3
		100 ppm
	TWA	109 mg/m3
		25 ppm
Toluene (CAS 108-88-3)	STEL	88 mg/m3
		50 ppm
	TWA	94 mg/m3
		25 ppm

1-Methoxy-2-propanol (CAS STEL 568 mg/m3 107-98-2) 150 ppm TWA 375 mg/m3 100 ppm 100 ppm 4-methylpentan-2-one; STEL 208 mg/m3 sobutyl methyl ketone 50 ppm (CAS 108-10-1) TWA 83 mg/m3 Ethylbenzene (CAS STEL 884 mg/m3 100-41-4) 200 ppm
TWA 375 mg/m3 100 ppm 100 ppm sobutyl methyl ketone (CAS 108-10-1) 208 mg/m3 TWA 50 ppm TWA 83 mg/m3 20 ppm Ethylbenzene (CAS 100-41-4) STEL
4-methylpentan-2-one; sobutyl methyl ketone (CAS 108-10-1) TWA 50 ppm TWA 50 ppm 20 ppm 20 ppm 20 ppm 20 ppm
4-methylpentan-2-one; sobutyl methyl ketone (CAS 108-10-1) TWA 50 ppm 100-41-4) STEL 50 ppm 83 mg/m3 20 ppm 884 mg/m3
sobutyl methyl ketone (CAS 108-10-1) 50 ppm TWA 83 mg/m3 20 ppm Ethylbenzene (CAS STEL 884 mg/m3 100-41-4)
TWA 83 mg/m3 20 ppm Ethylbenzene (CAS STEL 100-41-4) 884 mg/m3
20 ppm Ethylbenzene (CAS STEL 884 mg/m3 100-41-4)
Ethylbenzene (CAS STEL 884 mg/m3 100-41-4)
100-41-4)
200 ppm
TWA 442 mg/m3
100 ppm
m-Xylene (CAS 108-38-3) STEL 442 mg/m3
100 ppm
TWA 221 mg/m3
50 ppm
p-Xylene (CAS 95-47-6) STEL 442 mg/m3
100 ppm
TWA 221 mg/m3
50 ppm
p-Xylene (CAS 106-42-3) STEL 442 mg/m3
100 ppm
TWA 221 mg/m3
50 ppm
Toluene (CAS 108-88-3) STEL 384 mg/m3
100 ppm
TWA 192 mg/m3
50 ppm
italy. OELs
Components Type Value
1-Methoxy-2-propanol (CAS STEL 568 mg/m3 107-98-2)
150 ppm
TWA 375 mg/m3
100 ppm
4-methylpentan-2-one; STEL 208 mg/m3 sobutyl methyl ketone (CAS 108-10-1)
50 ppm
TWA 83 mg/m3
20 ppm
Ethylbenzene (CAS STEL 884 mg/m3 100-41-4)
200 ppm
TWA 442 mg/m3
100 ppm
m-Xylene (CAS 108-38-3) STEL 442 mg/m3
100 ppm

Ireland. OELVs, Schedules 1 & 2, Code of Practise for Chemical Agents and Carcinogens Regulations

ltaly. OELs Components	Туре	Value	
	TWA	221 mg/m3	
		50 ppm	
o-Xylene (CAS 95-47-6)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	
p-Xylene (CAS 106-42-3)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	
Toluene (CAS 108-88-3)	TWA	192 mg/m3	
		50 ppm	

Latvia. OELs. Occupational Exposure Limits of Chemical Substances at Workplace (Reg. No. 325/ 2007, L.V. 80, Annex 1), as amended

Components	Туре	Value
1-Methoxy-2-propanol (CAS 107-98-2)	STEL	568 mg/m3
		150 ppm
	TWA	375 mg/m3
		100 ppm
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	STEL	208 mg/m3
		50 ppm
	TWA	83 mg/m3
		20 ppm
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3
		200 ppm
	TWA	442 mg/m3
		100 ppm
m-Xylene (CAS 108-38-3)	STEL	442 mg/m3
		100 ppm
	TWA	221 mg/m3
		50 ppm
o-Xylene (CAS 95-47-6)	STEL	442 mg/m3
		100 ppm
	TWA	221 mg/m3
		50 ppm
p-Xylene (CAS 106-42-3)	STEL	442 mg/m3
		100 ppm
	TWA	221 mg/m3
		50 ppm
Toluene (CAS 108-88-3)	STEL	150 mg/m3
		40 ppm
	TWA	50 mg/m3
		14 ppm

Lithuania. OELs. Limit Values for Chemical Substances, General Requirements (Hygiene Norm HN 23:2007)

Components	Туре	Value
1-Methoxy-2-propanol (CAS 107-98-2)	STEL	300 mg/m3

Components	Туре	Value
		75 ppm
	TWA	190 mg/m3
		50 ppm
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	STEL	208 mg/m3
		50 ppm
	TWA	83 mg/m3
		20 ppm
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3
		200 ppm
	TWA	442 mg/m3
		100 ppm
m-Xylene (CAS 108-38-3)	STEL	442 mg/m3
		100 ppm
	TWA	221 mg/m3
		50 ppm
o-Xylene (CAS 95-47-6)	STEL	442 mg/m3
		100 ppm
	TWA	221 mg/m3
		50 ppm
p-Xylene (CAS 106-42-3)	STEL	442 mg/m3
		100 ppm
	TWA	221 mg/m3
		50 ppm
Toluene (CAS 108-88-3)	STEL	384 mg/m3
		100 ppm
	TWA	192 mg/m3
		50 ppm

Lithuania. OELs. Limit Values for Chemical Substances, General Requirements (Hygiene Norm HN 23:2007) Components Type Value

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

Components	Туре	Value	
1-Methoxy-2-propanol (CAS 107-98-2)	STEL	568 mg/m3	
		150 ppm	
	TWA	375 mg/m3	
		100 ppm	
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	STEL	208 mg/m3	
		50 ppm	
	TWA	83 mg/m3	
		20 ppm	
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
		100 ppm	
m-Xylene (CAS 108-38-3)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	

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

Components	Туре	Value	
		50 ppm	
o-Xylene (CAS 95-47-6)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	
p-Xylene (CAS 106-42-3)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	
Toluene (CAS 108-88-3)	STEL	384 mg/m3	
		100 ppm	
	TWA	192 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	
1-Methoxy-2-propanol (CAS 107-98-2)	STEL	568 mg/m3	
		150 ppm	
	TWA	375 mg/m3	
		100 ppm	
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	STEL	208 mg/m3	
		50 ppm	
	TWA	83 mg/m3	
		20 ppm	
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
		100 ppm	
m-Xylene (CAS 108-38-3)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	
o-Xylene (CAS 95-47-6)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	
p-Xylene (CAS 106-42-3)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	
Toluene (CAS 108-88-3)	STEL	384 mg/m3	
		100 ppm	
	TWA	192 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	
1-Methoxy-2-propanol (CAS 107-98-2)	STEL	563 mg/m3	
	TWA	375 mg/m3	
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	STEL	208 mg/m3	
	TWA	104 mg/m3	
Ethylbenzene (CAS 100-41-4)	STEL	430 mg/m3	
	TWA	215 mg/m3	
m-Xylene (CAS 108-38-3)	STEL	442 mg/m3	
	TWA	210 mg/m3	
o-Xylene (CAS 95-47-6)	STEL	442 mg/m3	
	TWA	210 mg/m3	
p-Xylene (CAS 106-42-3)	STEL	442 mg/m3	
	TWA	210 mg/m3	
Toluene (CAS 108-88-3)	STEL	384 mg/m3	
	TWA	150 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	
1-Methoxy-2-propanol (CAS 107-98-2)	TLV	180 mg/m3	
		50 ppm	
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	STEL	208 mg/m3	
		50 ppm	
	TLV	83 mg/m3	
		20 ppm	
Ethylbenzene (CAS 100-41-4)	TLV	20 mg/m3	
		5 ppm	
m-Xylene (CAS 108-38-3)	TLV	108 mg/m3	
		25 ppm	
o-Xylene (CAS 95-47-6)	TLV	108 mg/m3	
		25 ppm	
p-Xylene (CAS 106-42-3)	TLV	108 mg/m3	
		25 ppm	
Toluene (CAS 108-88-3)	TLV	94 mg/m3	
		25 ppm	

Poland. Maximum permissible concentrations and intensities of harmful factors in the work environment (Dz.U.Poz. 1286/2018, Annex 1)

Components	Туре	Value	
1-Methoxy-2-propanol (CAS 107-98-2)	STEL	360 mg/m3	
	TWA	180 mg/m3	
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	STEL	200 mg/m3	
	TWA	83 mg/m3	
Ethylbenzene (CAS 100-41-4)	STEL	400 mg/m3	

Poland. Maximum permissible concentrations and intensities of harmful factors in the work environment (Dz.U.Poz. 1286/2018, Annex 1)

Components	Туре	Value	
	TWA	200 mg/m3	
m-Xylene (CAS 108-38-3)	STEL	200 mg/m3	
	TWA	100 mg/m3	
o-Xylene (CAS 95-47-6)	STEL	200 mg/m3	
	TWA	100 mg/m3	
p-Xylene (CAS 106-42-3)	STEL	200 mg/m3	
	TWA	100 mg/m3	
Toluene (CAS 108-88-3)	STEL	200 mg/m3	
	TWA	100 mg/m3	

Portugal. Decree-Law No. 24/2012, Occupational Exposure Limit Values, Annex II, as amended

Components	Туре	Value	
1-Methoxy-2-propanol (CAS 107-98-2)	STEL	568 mg/m3	
		150 ppm	
	TWA	375 mg/m3	
		100 ppm	
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	STEL	208 mg/m3	
		50 ppm	
	TWA	83 mg/m3	
		20 ppm	
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
		100 ppm	
m-Xylene (CAS 108-38-3)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	
o-Xylene (CAS 95-47-6)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	
p-Xylene (CAS 106-42-3)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	
Toluene (CAS 108-88-3)	STEL	384 mg/m3	
		100 ppm	
	TWA	192 mg/m3	
		50 ppm	
Portugal. VLEs. Norm on occupati Components	onal exposure to chemical ac Type	ents (NP 1796-2014) Value	
1-Methoxy-2-propanol (CAS 107-98-2)	STEL	100 ppm	
	TWA	50 ppm	

75 ppm

STEL

4-methylpentan-2-one;

isobutyl methyl ketone (CAS 108-10-1)

Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796-2014)			
Components	Туре	Value	
	TWA	20 ppm	
Ethylbenzene (CAS 100-41-4)	TWA	20 ppm	
m-Xylene (CAS 108-38-3)	STEL	150 ppm	
	TWA	100 ppm	
o-Xylene (CAS 95-47-6)	STEL	150 ppm	
	TWA	100 ppm	
p-Xylene (CAS 106-42-3)	STEL	150 ppm	
	TWA	100 ppm	
Toluene (CAS 108-88-3)	TWA	20 ppm	

Romania. OELs. Limit Values of Chemical Agents at Workplace (Regulation 1.218/2006, M.O 845, Annex 1, 3&4, as amended)

Components	Туре	Value	
1-Methoxy-2-propanol (CAS 107-98-2)	STEL	568 mg/m3	
		150 ppm	
	TWA	375 mg/m3	
		100 ppm	
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	STEL	208 mg/m3	
		50 ppm	
	TWA	83 mg/m3	
		20 ppm	
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
		100 ppm	
m-Xylene (CAS 108-38-3)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	
o-Xylene (CAS 95-47-6)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	
p-Xylene (CAS 106-42-3)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	
Toluene (CAS 108-88-3)	STEL	384 mg/m3	
		100 ppm	
	TWA	192 mg/m3	
		50 ppm	

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

Components	Туре	Value	
1-Methoxy-2-propanol (CAS 107-98-2)	TWA	375 mg/m3	
		100 ppm	

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

Components	Туре	Value	
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	TWA	83 mg/m3	
		20 ppm	
Ethylbenzene (CAS 100-41-4)	TWA	442 mg/m3	
		100 ppm	
m-Xylene (CAS 108-38-3)	TWA	221 mg/m3	
		50 ppm	
o-Xylene (CAS 95-47-6)	TWA	221 mg/m3	
		50 ppm	
p-Xylene (CAS 106-42-3)	TWA	221 mg/m3	
		50 ppm	
Toluene (CAS 108-88-3)	TWA	192 mg/m3	
		50 ppm	

Slovakia. OELs. Maximum permissible exposure limits for chemical factors in workplace air (Regulation No 355/2006, Annex 1, Table 1, as amended)

Components	Туре	Value	
1-Methoxy-2-propanol (CAS 107-98-2)	STEL	568 mg/m3	
		150 ppm	
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	STEL	166 mg/m3	
		40 ppm	
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
m-Xylene (CAS 108-38-3)	STEL	442 mg/m3	
		100 ppm	
o-Xylene (CAS 95-47-6)	STEL	442 mg/m3	
		100 ppm	
p-Xylene (CAS 106-42-3)	STEL	442 mg/m3	
		100 ppm	
Toluene (CAS 108-88-3)	STEL	384 mg/m3	
		100 ppm	

Slovenia. OELs. Occupational Exposure Limits of Chemicals at Workplace (Reg. on Protection of Workers from Risks due to Exp. to Chemicals at Work, Ann. I 100/2001), as amended

Components	Туре	Value	
1-Methoxy-2-propanol (CAS 107-98-2)	KTV	568 mg/m3	
		150 ppm	
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	KTV	208 mg/m3	
		50 ppm	
Ethylbenzene (CAS 100-41-4)	KTV	884 mg/m3	
		200 ppm	
m-Xylene (CAS 108-38-3)	KTV	442 mg/m3	
		100 ppm	
o-Xylene (CAS 95-47-6)	KTV	442 mg/m3	
		100 ppm	

Slovenia. OELs. Occupational Exposure Limits of Chemicals at Workplace (Reg. on Protection of Workers from Risks due to Exp. to Chemicals at Work, Ann. I 100/2001), as amended

Components	Туре	Value	
p-Xylene (CAS 106-42-3)	KTV	442 mg/m3	
		100 ppm	
Toluene (CAS 108-88-3)	KTV	384 mg/m3	
		100 ppm	

Slovenia. OELs. Occupational Exposure Limits of Chemicals at Workplace (Reg. on Protection of Workers from Risks due to Exp. to Chemicals at Work, Annex I), as amended

Туре	Value	
TWA	375 mg/m3	
	100 ppm	
TWA	83 mg/m3	
	20 ppm	
TWA	442 mg/m3	
	100 ppm	
TWA	221 mg/m3	
	50 ppm	
TWA	221 mg/m3	
	50 ppm	
TWA	221 mg/m3	
	50 ppm	
TWA	192 mg/m3	
	50 ppm	
	TWA TWA TWA TWA TWA TWA	TWA 375 mg/m3 TWA 100 ppm TWA 83 mg/m3 TWA 20 ppm TWA 442 mg/m3 TWA 221 mg/m3 50 ppm 50 ppm TWA 221 mg/m3 50 ppm 50 ppm TWA 100 ppm TWA 100 ppm TWA 100 ppm TWA 221 mg/m3 TWA 50 ppm TWA 192 mg/m3

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

(VLAS) Components	Туре	Value	
1-Methoxy-2-propanol (CAS 107-98-2)	STEL	568 mg/m3	
		150 ppm	
	TWA	375 mg/m3	
		100 ppm	
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	STEL	208 mg/m3	
		50 ppm	
	TWA	83 mg/m3	
		20 ppm	
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	441 mg/m3	
		100 ppm	
m-Xylene (CAS 108-38-3)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	
o-Xylene (CAS 95-47-6)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	

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

Components	Туре	Value	
p-Xylene (CAS 106-42-3)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	
Toluene (CAS 108-88-3)	STEL	384 mg/m3	
		100 ppm	
	TWA	192 mg/m3	
		50 ppm	

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

Components	Туре	Value	
1-Methoxy-2-propanol (CAS 107-98-2)	Ceiling	568 mg/m3	
		150 ppm	
	STEL	300 mg/m3	
		75 ppm	
	TWA	190 mg/m3	
		50 ppm	
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	Ceiling	200 mg/m3	
		50 ppm	
	TWA	83 mg/m3	
		20 ppm	
Ethylbenzene (CAS 100-41-4)	Ceiling	884 mg/m3	
		200 ppm	
	TWA	220 mg/m3	
		50 ppm	
m-Xylene (CAS 108-38-3)	Ceiling	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	
o-Xylene (CAS 95-47-6)	Ceiling	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	
p-Xylene (CAS 106-42-3)	Ceiling	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	
Toluene (CAS 108-88-3)	Ceiling	384 mg/m3	
		100 ppm	
	TWA	192 mg/m3	
		50 ppm	
Switzerland. SUVA Grenzwerte am Components	Arbeitsplatz: Aktuelle MAK-W Type	/erte Value	
1-Methoxy-2-propanol (CAS 107-98-2)	STEL	720 mg/m3	
		200 ppm	

Switzerland. SUVA Grenzwerte am Arbeitsplatz: Aktuelle MAK-Werte

Components	Туре	Value	
	TWA	360 mg/m3	
		100 ppm	
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	STEL	164 mg/m3	
		40 ppm	
	TWA	82 mg/m3	
		20 ppm	
Ethylbenzene (CAS 100-41-4)	STEL	220 mg/m3	
		50 ppm	
	TWA	220 mg/m3	
		50 ppm	
m-Xylene (CAS 108-38-3)	STEL	440 mg/m3	
		100 ppm	
	TWA	220 mg/m3	
		50 ppm	
o-Xylene (CAS 95-47-6)	STEL	440 mg/m3	
		100 ppm	
	TWA	220 mg/m3	
		50 ppm	
p-Xylene (CAS 106-42-3)	STEL	440 mg/m3	
		100 ppm	
	TWA	220 mg/m3	
		50 ppm	
Toluene (CAS 108-88-3)	STEL	760 mg/m3	
		200 ppm	
	TWA	190 mg/m3	
		50 ppm	

UK. OELs. Workplace Exposure Limits (WELs) (EH40/2005 (Fourth Edition 2020)), Table 1 Components Value

Components	Гуре	Value	
1-Methoxy-2-propanol (CAS 107-98-2)	STEL	560 mg/m3	
		150 ppm	
	TWA	375 mg/m3	
		100 ppm	
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	STEL	416 mg/m3	
		100 ppm	
	TWA	208 mg/m3	
		50 ppm	
Ethylbenzene (CAS 100-41-4)	STEL	552 mg/m3	
		125 ppm	
	TWA	441 mg/m3	
		100 ppm	
m-Xylene (CAS 108-38-3)	STEL	441 mg/m3	
		100 ppm	
	TWA	220 mg/m3	
		50 ppm	
o-Xylene (CAS 95-47-6)	STEL	441 mg/m3	

STEEL-IT 6811 Equipment Cleaning Blend

Components	Туре	Value	
		100 ppm	
	TWA	220 mg/m3	
		50 ppm	
p-Xylene (CAS 106-42-3)	STEL	441 mg/m3	
		100 ppm	
	TWA	220 mg/m3	
		50 ppm	
Toluene (CAS 108-88-3)	STEL	384 mg/m3	
		100 ppm	
	TWA	191 mg/m3	
		50 ppm	

EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU Value Components Туре

Components	Туре	Value	
1-Methoxy-2-propanol (CAS 107-98-2)	STEL	568 mg/m3	
		150 ppm	
	TWA	375 mg/m3	
		100 ppm	
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	STEL	208 mg/m3	
		50 ppm	
	TWA	83 mg/m3	
		20 ppm	
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
		100 ppm	
m-Xylene (CAS 108-38-3)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	
o-Xylene (CAS 95-47-6)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	
p-Xylene (CAS 106-42-3)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	
Toluene (CAS 108-88-3)	STEL	384 mg/m3	
		100 ppm	
	TWA	192 mg/m3	
		50 ppm	

Biological limit values

BELs, Annex IV (NN 91/2) Components	Value	Determinant	Specimen	Sampling Time
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	3,5 mg/l	4-methylpentan -2-one	Urine	*
	35 nmol/l	4-methylpentan -2-one	Urine	*
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	*
m-Xylene (CAS 108-38-3)	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	*
o-Xylene (CAS 95-47-6)	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	*
p-Xylene (CAS 106-42-3)	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	*
Toluene (CAS 108-88-3)	2,5 g/g	Hippuric acid	Creatinine in urine	*
	1 mg/g	o-cresol (Phenol, 2-methyl-)	Creatinine in urine	*
	1 mg/l	Toluene	Blood	*
	1,05 mmol/mol	o-cresol (Phenol, 2-methyl-)	Creatinine in urine	*
	1,58 mol/mol	Hippuric acid	Creatinine in urine	*
	20 ppm	Toluene	End-exhaled air	*
	10,85 umol/l	Toluene	Blood	*
	0,83 umol/l	Toluene	End-exhaled air	*

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

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

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

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	*
m-Xylene (CAS 108-38-3)	820 µmol/mmol	Methylhippuric acids	Creatinine in urine	*
	1400 mg/g	Methylhippuric acids	Creatinine in urine	*

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

Components	Value	Determinant	Specimen	Sampling Time
o-Xylene (CAS 95-47-6)	820 µmol/mmol	Methylhippuric acids	Creatinine in urine	*
	1400 mg/g	Methylhippuric acids	Creatinine in urine	*
p-Xylene (CAS 106-42-3)	820 µmol/mmol	Methylhippuric acids	Creatinine in urine	*
	1400 mg/g	Methylhippuric acids	Creatinine in urine	*
Toluene (CAS 108-88-3)	1,6 µmol/mmol	o-Cresol (with hydrolysis)	Creatinine in urine	*
	1,5 mg/g	o-Cresol (with hydrolysis)	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	*
m-Xylene (CAS 108-38-3)	5 mmol/l	Methylhippuric acids	Urine	*
o-Xylene (CAS 95-47-6)	5 mmol/l	Methylhippuric acids	Urine	*
p-Xylene (CAS 106-42-3)	5 mmol/l	Methylhippuric acids	Urine	*
Toluene (CAS 108-88-3)	500 nmol/l	Toluene concentration	Blood	*

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

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

•			•	
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	2 mg/l	Méthylisobutylc étone	Urine	*
Ethylbenzene (CAS 100-41-4)	1500 mg/g	Acide mandélique	Creatinine in urine	*
m-Xylene (CAS 108-38-3)	1500 mg/g	Acides méthylhippuriq ues	Creatinine in urine	*
o-Xylene (CAS 95-47-6)	1500 mg/g	Acides méthylhippuriq ues	Creatinine in urine	*
p-Xylene (CAS 106-42-3)	1500 mg/g	Acides méthylhippuriq ues	Creatinine in urine	*
Toluene (CAS 108-88-3)	2500 mg/g	Acide hippurique	Creatinine in urine	*
	2500 mg/g	Acide hippurique	Creatinine in urine	*
	1 mg/l	Toluène	Venous blood	*

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

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

Components	Value	Determinant	Specimen	Sampling Time	
1-Methoxy-2-propanol (CAS 15 mg/l 107-98-2)		1-Methoxyprop an-2-ol	Urine	*	
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	0,7 mg/l	4-Methylpentan -2-on	Urine	*	
Ethylbenzene (CAS 100-41-4)	250 mg/g	Mandelsäure plus Phenylglyoxyls äure	Creatinine in urine	*	

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

Components	Value	Determinant	Specimen	Sampling Time
m-Xylene (CAS 108-38-3)	2000 mg/l	Methylhippur-(T olur-) säure (alle Isomere)	Urine	*
o-Xylene (CAS 95-47-6)	2000 mg/l	Methylhippur-(T olur-) säure (alle Isomere)	Urine	*
p-Xylene (CAS 106-42-3)	2000 mg/l	Methylhippur-(T olur-) säure (alle Isomere)	Urine	*
Toluene (CAS 108-88-3)	75 µg/l	Toluol	Urine	*
	600 µg/l	Toluol	Blood	*
	1,5 mg/l	o-Kresol (nach Hydrolyse)	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	

				· · · · · · · · · · · · · · · · · · ·	
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	35 µmol/l	methyl isobutyl ketone	Urine	*	
	3,5 mg/l	methyl isobutyl ketone	Urine	*	
Ethylbenzene (CAS 100-41-4)	1110 µmol/mmol	mandelic acid	Creatinine in urine	*	
	1500 mg/g	mandelic acid	Creatinine in urine	*	
m-Xylene (CAS 108-38-3)	860 µmol/mmol	methyl hippuric acids	Creatinine in urine	*	
	1500 mg/g	methyl hippuric acids	Creatinine in urine	*	
o-Xylene (CAS 95-47-6)	860 µmol/mmol	methyl hippuric acids	Creatinine in urine	*	
	1500 mg/g	methyl hippuric acids	Creatinine in urine	*	
p-Xylene (CAS 106-42-3)	860 µmol/mmol	methyl hippuric acids	Creatinine in urine	*	
	1500 mg/g	methyl hippuric acids	Creatinine in urine	*	
Toluene (CAS 108-88-3)	1 µmol/mmol	o-crezol	Creatinine in urine	*	
	1 mg/g	o-crezol	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
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	2,36 mg/g	Methyl isobutyl ketone	Creatinine in urine	*
	3,5 mg/l	Methyl isobutyl ketone	Urine	*
Ethylbenzene (CAS 100-41-4)	8,03 mg/g	2 and 4-ethylphenol	Creatinine in urine	*
	12 mg/l	2 and 4-ethylphenol	Urine	*
m-Xylene (CAS 108-38-3)	1334 mg/g	Methylhippuric acids	Creatinine in urine	*
	2000 mg/l	Methylhippuric acids	Urine	*
	1,5 mg/l	xylene	Blood	*

agents, Annex 2				
Components	Value	Determinant	Specimen	Sampling Time
o-Xylene (CAS 95-47-6)	1334 mg/g	Methylhippuric acids	Creatinine in urine	*
	2000 mg/l	Methylhippuric acids	Urine	*
	1,5 mg/l	xylene	Blood	*
p-Xylene (CAS 106-42-3)	1334 mg/g	Methylhippuric acids	Creatinine in urine	*
	2000 mg/l	Methylhippuric acids	Urine	*
	1,5 mg/l	xylene	Blood	*
Toluene (CAS 108-88-3)	600 µg/l	Toluene	Blood	*
	1600 mg/g	Hippuric acid	Creatinine in urine	*
	1,03 mg/g	o-cresol (Phenol, 2-methyl-)	Creatinine in urine	*
	2401 mg/l	Hippuric acid	Urine	*
	1,5 mg/l	o-cresol (Phenol, 2-methyl-)	Urine	*

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

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

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

•			• •	0
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	1 mg/l	Metilisobutilcet ona	Urine	*
Ethylbenzene (CAS 100-41-4)	700 mg/g	Suma del acido mandélico y el ácido fenilglioxílico	Creatinine in urine	*
m-Xylene (CAS 108-38-3)	1 g/g	Ácidos metilhipúricos	Creatinine in urine	*
o-Xylene (CAS 95-47-6)	1 g/g	Ácidos metilhipúricos	Creatinine in urine	*
p-Xylene (CAS 106-42-3)	1 g/g	Ácidos metilhipúricos	Creatinine in urine	*
Toluene (CAS 108-88-3)	0,6 mg/g	o-cresol (Phenol, 2-methyl-)	Urine	*
	0,08 mg/l	Tolueno	Urine	*
	0,05 mg/l	Tolueno	Blood	*

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

Switzerland. SUVA Grenzwerte am Arbeitsplatz: Aktuelle BAT-Werte

Components	Value	Determinant	Specimen	Sampling Time
1-Methoxy-2-propanol (CA 107-98-2)	S20 mg/l	1-METHOXYP ROPANOL-2	Urine	*
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	0,7 mg/l	4-Methylpentan -2-on	Urine	*
Ethylbenzene (CAS 100-41-4)	600 mg/g	Mandelsäure + Phenylglyoxyls äure	Creatinine in urine	*
m-Xylene (CAS 108-38-3)	2 g/l	Methylhippursä uren	Urine	*
o-Xylene (CAS 95-47-6)	2 g/l	Methylhippursä uren	Urine	*
p-Xylene (CAS 106-42-3)	2 g/l	Methylhippursä uren	Urine	*
Toluene (CAS 108-88-3)	75 µg/l	Toluol	Urine	*

STEEL-IT 6811 Equipment Cleaning Blend

Switzerland. SUVA Grenzwerte am Arbeitsplatz: Aktuelle BAT-Werte Value Sampling Time Components Determinant Specimen 600 µg/l Toluol Blood *

2 g/g	Hippursäure	Creatinine in urine	*
0,5 mg/l	o-Kresol	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
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	20 umol/l	4-Methylpentan -2-one	Urine	*
m-Xylene (CAS 108-38-3)	650 mmol/mol	Methyl hippuric acid	Creatinine in urine	*
o-Xylene (CAS 95-47-6)	650 mmol/mol	Methyl hippuric acid	Creatinine in urine	*
p-Xylene (CAS 106-42-3)	650 mmol/mol	Methyl hippuric acid	Creatinine in urine	*
* - For sampling details, ple	ease see the source docu	ument.		
commended monitoring ocedures	Follow standard mo	nitoring procedures		
rived no effect levels NELs)	Not available.			
edicted no effect ncentrations (PNECs)	Not available.			
posure guidelines				
Austria. MAK List				
1-Methoxy-2-propanol	(CAS 107-98-2) ; isobutyl methyl ketone		absorbed throug absorbed throug	
Ethylbenzene (CAS 10	00-41-4)	Can be	absorbed throug	gh the skin.
m-Xylene (CAS 108-38			absorbed throug	
o-Xylene (CAS 95-47-6			absorbed throug	
p-Xylene (CAS 106-42			absorbed throug	
Toluene (CAS 108-88- Belgium OELs: Skin desig	,	Can be	absorbed throug	jn the skin.
1-Methoxy-2-propanol	-	Conho	absorbed throug	the akin
Ethylbenzene (CAS 10			absorbed throug	
m-Xylene (CAS 108-38			absorbed throug	
o-Xylene (CAS 95-47-6			absorbed throug	
p-Xylene (CAS 106-42-3)		Can be absorbed through the skin.		
Toluene (CAS 108-88-		Can be	absorbed throug	gh the skin.
Bulgaria OELs: Skin desi	-			
1-Methoxy-2-propanol			absorbed throug	
Ethylbenzene (CAS 10 m-Xylene (CAS 108-38		Can be absorbed through the skin. Can be absorbed through the skin.		
o-Xylene (CAS 95-47-6		Can be absorbed through the skin.		
p-Xylene (CAS 106-42		Can be absorbed through the skin.		
Toluene (CAS 108-88-	3)	Can be	absorbed throug	gh the skin.
Croatia ELVs: Skin desig	nation			
Ethylbenzene (CAS 10			absorbed throug	
m-Xylene (CAS 108-38		Can be absorbed through the skin.		
o-Xylene (CAS 95-47-6)		Can be absorbed through the skin. Can be absorbed through the skin.		
p-Xylene (CAS 106-42-3) Toluene (CAS 108-88-3)			absorbed throug	
Czech Republic PELs: Sk	-	Can be		
1-Methoxy-2-propanol	-	Can he	absorbed throug	ah the skin
4-methylpentan-2-one;	isobutyl methyl ketone		absorbed throug	gh the skin.
(CAS 108-10-1)				
Ethylbenzene (CAS 10			absorbed throug	
Ethylbenzene (CAS 10 m-Xylene (CAS 108-38	3-3)	Can be	absorbed throug	gh the skin.
Ethylbenzene (CAS 10	3-3) 6)	Can be Can be		gh the skin. gh the skin.

Denmark GV: Skin designation

1-Methoxy-2-propanol (CAS 107-98-2) 4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1) Ethylbenzene (CAS 100-41-4) m-Xylene (CAS 108-38-3) o-Xylene (CAS 95-47-6) p-Xylene (CAS 106-42-3) Toluene (CAS 108-88-3) onia OEL s: Skin designation

Estonia OELs: Skin designation

1-Methoxy-2-propanol (CAS 107-98-2) Ethylbenzene (CAS 100-41-4) m-Xylene (CAS 108-38-3) o-Xylene (CAS 95-47-6) p-Xylene (CAS 106-42-3) Toluene (CAS 108-88-3)

EU Exposure Limit Values: Skin designation 1-Methoxy-2-propanol (CAS 107-98-2) Ethylbenzene (CAS 100-41-4) m-Xylene (CAS 108-38-3)

o-Xylene (CAS 95-47-6) p-Xylene (CAS 106-42-3) Toluene (CAS 108-88-3)

Finland Exposure Limit Values: Skin designation

1-Methoxy-2-propanol (CAS 107-98-2) Ethylbenzene (CAS 100-41-4) m-Xylene (CAS 108-38-3) o-Xylene (CAS 95-47-6) p-Xylene (CAS 106-42-3) Toluene (CAS 108-88-3)

France INRS: Skin designation

1-Methoxy-2-propanol (CAS 107-98-2) Ethylbenzene (CAS 100-41-4) m-Xylene (CAS 108-38-3) o-Xylene (CAS 95-47-6) p-Xylene (CAS 106-42-3) Toluene (CAS 108-88-3)

France Mandatory OELs (VLEP): Skin designation

1-Methoxy-2-propanol (CAS 107-98-2) Ethylbenzene (CAS 100-41-4) m-Xylene (CAS 108-38-3) o-Xylene (CAS 95-47-6) p-Xylene (CAS 106-42-3) Toluene (CAS 108-88-3)

Germany DFG MAK (advisory): Skin designation

4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1) Ethylbenzene (CAS 100-41-4) m-Xylene (CAS 108-38-3) o-Xylene (CAS 95-47-6) p-Xylene (CAS 106-42-3) Toluene (CAS 108-88-3)

Germany TRGS 900 Limit Values: Skin designation

4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1) Ethylbenzene (CAS 100-41-4) m-Xylene (CAS 108-38-3) o-Xylene (CAS 95-47-6) p-Xylene (CAS 106-42-3) Toluene (CAS 108-88-3)

Greece OEL: Skin designation

1-Methoxy-2-propanol (CAS 107-98-2) 4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1) m-Xylene (CAS 108-38-3) o-Xylene (CAS 95-47-6) p-Xylene (CAS 106-42-3) Toluene (CAS 108-88-3) Can be absorbed through the skin. Can be absorbed through the skin.

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Hungary OELs: Skin designation

1-Methoxy-2-propanol (CAS 107-98-2) Ethylbenzene (CAS 100-41-4) m-Xylene (CAS 108-38-3) o-Xylene (CAS 95-47-6) p-Xylene (CAS 106-42-3) Toluene (CAS 108-88-3)

Iceland OELs: Skin designation

1-Methoxy-2-propanol (CAS 107-98-2) 4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1) Ethylbenzene (CAS 100-41-4) m-Xylene (CAS 108-38-3) o-Xylene (CAS 106-42-3) Toluene (CAS 108-88-3)

Ireland Exposure Limit Values: Skin designation

4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1) Ethylbenzene (CAS 100-41-4) m-Xylene (CAS 108-38-3) o-Xylene (CAS 95-47-6) p-Xylene (CAS 106-42-3) Toluene (CAS 108-88-3)

Italy OELs: Skin designation

1-Methoxy-2-propanol (CAS 107-98-2) Ethylbenzene (CAS 100-41-4) m-Xylene (CAS 108-38-3) o-Xylene (CAS 95-47-6) p-Xylene (CAS 106-42-3) Toluene (CAS 108-88-3)

Latvia OELs: Skin designation

1-Methoxy-2-propanol (CAS 107-98-2) Ethylbenzene (CAS 100-41-4) m-Xylene (CAS 108-38-3) o-Xylene (CAS 95-47-6) p-Xylene (CAS 106-42-3) Toluene (CAS 108-88-3)

Lithuania OELs: Skin designation

1-Methoxy-2-propanol (CAS 107-98-2) Ethylbenzene (CAS 100-41-4) m-Xylene (CAS 108-38-3) o-Xylene (CAS 95-47-6) p-Xylene (CAS 106-42-3) Toluene (CAS 108-88-3)

Luxembourg OELs: Skin designation

1-Methoxy-2-propanol (CAS 107-98-2) Ethylbenzene (CAS 100-41-4) m-Xylene (CAS 108-38-3) o-Xylene (CAS 95-47-6) p-Xylene (CAS 106-42-3) Toluene (CAS 108-88-3)

Malta OELs: Skin designation

1-Methoxy-2-propanol (CAS 107-98-2) Ethylbenzene (CAS 100-41-4) m-Xylene (CAS 108-38-3) o-Xylene (CAS 95-47-6) p-Xylene (CAS 106-42-3) Toluene (CAS 108-88-3)

Netherlands OELs (binding): Skin designation

1-Methoxy-2-propanol (CAS 107-98-2) Ethylbenzene (CAS 100-41-4) m-Xylene (CAS 108-38-3) o-Xylene (CAS 95-47-6) p-Xylene (CAS 106-42-3) Norway Exposure Limit Values: Skin designation

1-Methoxy-2-propanol (CAS 107-98-2)

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Danger of cutaneous absorption Danger of cutaneous absorption

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Can be absorbed through the skin.

4-methylpentan-2-one; isobutyl methyl ketone Can be absorbed through the skin. (CAS 108-10-1) Ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. m-Xylene (CAS 108-38-3) Can be absorbed through the skin. o-Xylene (CAS 95-47-6) Can be absorbed through the skin. p-Xylene (CAS 106-42-3) Can be absorbed through the skin. Toluene (CAS 108-88-3) Can be absorbed through the skin. Portugal OELs: Skin designation Ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. m-Xylene (CAS 108-38-3) Can be absorbed through the skin. o-Xylene (CAS 95-47-6) Can be absorbed through the skin. p-Xylene (CAS 106-42-3) Can be absorbed through the skin. Toluene (CAS 108-88-3) Can be absorbed through the skin. Romania OELs: Skin designation 1-Methoxy-2-propanol (CAS 107-98-2) Can be absorbed through the skin. Ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. m-Xylene (CAS 108-38-3) Can be absorbed through the skin. o-Xylene (CAS 95-47-6) Can be absorbed through the skin. p-Xylene (CAS 106-42-3) Can be absorbed through the skin. Toluene (CAS 108-88-3) Can be absorbed through the skin. Slovakia OELs: Skin designation 1-Methoxy-2-propanol (CAS 107-98-2) Can be absorbed through the skin. 4-methylpentan-2-one; isobutyl methyl ketone Can be absorbed through the skin. (CAS 108-10-1) Ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. m-Xylene (CAS 108-38-3) Can be absorbed through the skin. o-Xylene (CAS 95-47-6) Can be absorbed through the skin. p-Xylene (CAS 106-42-3) Can be absorbed through the skin. Toluene (CAS 108-88-3) 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) 1-Methoxy-2-propanol (CAS 107-98-2) Can be absorbed through the skin. 4-methylpentan-2-one; isobutyl methyl ketone Can be absorbed through the skin. (CAS 108-10-1) Ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. m-Xylene (CAS 108-38-3) Can be absorbed through the skin. o-Xylene (CAS 95-47-6) Can be absorbed through the skin. p-Xylene (CAS 106-42-3) Can be absorbed through the skin. Toluene (CAS 108-88-3) Can be absorbed through the skin. Spain OELs: Skin designation 1-Methoxy-2-propanol (CAS 107-98-2) Can be absorbed through the skin. Ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. m-Xylene (CAS 108-38-3) Can be absorbed through the skin. o-Xylene (CAS 95-47-6) Can be absorbed through the skin. p-Xylene (CAS 106-42-3) Can be absorbed through the skin. Toluene (CAS 108-88-3) Can be absorbed through the skin. Sweden Threshold Limit Values: Skin designation 1-Methoxy-2-propanol (CAS 107-98-2) Can be absorbed through the skin. Ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. m-Xylene (CAS 108-38-3) Can be absorbed through the skin. o-Xylene (CAS 95-47-6) Can be absorbed through the skin. p-Xylene (CAS 106-42-3) Can be absorbed through the skin. Toluene (CAS 108-88-3) Can be absorbed through the skin. Switzerland SUVA Limit Values at the Workplace: Skin designation 4-methylpentan-2-one; isobutyl methyl ketone Can be absorbed through the skin. (CAS 108-10-1) Ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. m-Xylene (CAS 108-38-3) Can be absorbed through the skin. o-Xylene (CAS 95-47-6) Can be absorbed through the skin. p-Xylene (CAS 106-42-3) Can be absorbed through the skin. Toluene (CAS 108-88-3) Can be absorbed through the skin. UK EH40 WEL: Skin designation 1-Methoxy-2-propanol (CAS 107-98-2) Can be absorbed through the skin. 4-methylpentan-2-one; isobutyl methyl ketone Can be absorbed through the skin. (CAS 108-10-1) Ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. m-Xylene (CAS 108-38-3) Can be absorbed through the skin. o-Xylene (CAS 95-47-6) Can be absorbed through the skin.

p-Xylene (CAS 106-42-3) Toluene (CAS 108-88-3)	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. Provide easy access to water supply and eye wash facilities.
Individual protection measures,	such as personal protective equipment
General information	Use 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: Viton® over Butyl rubber. Use gloves with breakthrough time of 240 +/- 30 minutes. Minimum glove thickness 0.71 (28 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 measures	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.
Environmental exposure controls	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.
Form	Liquid.
Colour	Clear.
Odour	Characteristic of solvents.
Odour threshold	Property has not been measured.
Melting point/freezing point	-48 °C (-54,4 °F) (Xylene)
Boiling point or initial boiling point and boiling range	114 - 137 °C (237,2 - 278,6 °F)
Flammability	Flammable liquid and vapour.
Upper/lower flammability or expl	osive limits
Explosive limit - lower (%)	1 % (Xylene)
Explosive limit – upper (%)	8 % (MIBK)
Flash point	14 °C (57,2 °F) (MIBK)
Auto-ignition temperature	287 °C (548,6 °F) (1-Methoxy-2-propanol)
Decomposition temperature	220 °C (428 °F) (MIBK)
рН	4 - 7
Kinematic viscosity	1,1 mm²/s (25 °C (77 °F))
Solubility	
Solubility (water)	(1,0 - < 10%) Moderately soluble in water.
Partition coefficient (n-octanol/water) (log value)	Not applicable, product is a mixture.
Vapour pressure	11 mmHg (25 °C (77 °F))

Density and/or relative density	
Density	0,86 g/cm³ (25 °C (77 °F))
Relative density	0,86 (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 characteristic	cs
Evaporation rate	Property has not been measured.
Flammability	Flammable liquid and vapour.
Viscosity	Property has not been measured.
voc	860 g/l 100 % 7,18 lb/gal
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.

reactions	
10.4. Conditions to avoid	Avoid heat, 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.
10.6. Hazardous decomposition products	Thermal decomposition of this product can generate carbon monoxide and carbon dioxide.

SECTION 11: Toxicological information

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

Information on likely routes of exposure				
Inhalation	May cause drowsiness or dizziness. May cause irritation to the respiratory system. May be harmful if inhaled.			
Skin contact	Causes skin irritation. May be absorbed through the skin.			
Eye contact	Causes serious eye irritation.			
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. May cause drowsiness or dizziness. Narcosis. Headache. Nausea, vomiting. Abdominal pain. Diarrhoea. Behavioural changes. Decrease in motor functions. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain. Jaundice. Prolonged exposure may cause chronic effects.			

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

Acute toxicity	May be harmful if inhaled.		
Components	Species	Test Results	
1-Methoxy-2-propanol (C	AS 107-98-2)		
<u>Acute</u>			
Dermal			
LD50	Rabbit	13000 mg/kg	
Oral			
LD50	Rat	> 5000 mg/kg	
4-methylpentan-2-one; iso	obutyl methyl ketone (CAS 108-10-1)		
<u>Acute</u>			
Dermal			
LD50	Rabbit	> 16000 mg/kg	

Components	Species	Test Results
Inhalation		
<i>Vapour</i> LC50	Rat	
Oral	Nat	11 mg/l, 4 Hours
LD50	Rat	3200 mg/kg
Ethylbenzene (CAS 100-41-4)		
Acute		
Dermal		
LD50	Rabbit	15400 mg/kg
Inhalation		
LC50	Rat	17,4 mg/l, 4 hours
Oral	Det	
LD50	Rat	3500 - 4700 mg/kg
m-Xylene (CAS 108-38-3) <u>Acute</u>		
Oral		
LD50	Rat	5011 mg/kg
o-Xylene (CAS 95-47-6)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 43 g/kg
Inhalation	D-4	
LC50	Rat	6350 ppm, 4 Hours
Oral LD50	Rat	3608 mg/kg
p-Xylene (CAS 106-42-3)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 43 g/kg
Inhalation		
LC50	Rat	6580 ppm, 4 Hours
Vapour		
LC50	Rat	20 mg/l, 4 Hours
Oral LD50	Rat	4029 mg/kg
Toluene (CAS 108-88-3)		4023 mg/kg
<u>Acute</u>		
Dermal		
LD50	Rabbit	12200 mg/kg
Inhalation		
Vapour		
LC50	Rat	28,1 mg/l, 4 Hours
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye irritation	Causes serious eye irritation.	
Respiratory sensitisation	Based on available data, the classificat	tion criteria are not met.
Skin sensitisation	Based on available data, the classification criteria are not met.	
Germ cell mutagenicity	Based on available data, the classification criteria are not met.	
Carcinogenicity	Suspected of causing cancer.	
Hungary. 26/2000 EüM Or (as amended)	dinance on protection against and preve	enting risk relating to exposure to carcinogens at work

Toluene (CAS 108-88-3)

IARC Monographs. Overall I	Evaluation of Carcinogenicity		
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)		2B Possibly carcinogenic to humans.	
Éthylbenzene (CAS 100-4	11-4)	2B Possibly carcinogenic to humans.	
m-Xylene (CAS 108-38-3)	3 Not classifiable as to carcinogenicity to humans.	
o-Xylene (CAS 95-47-6)		3 Not classifiable as to carcinogenicity to humans.	
p-Xylene (CAS 106-42-3)		3 Not classifiable as to carcinogenicity to humans.	
Toluene (CAS 108-88-3)		3 Not classifiable as to carcinogenicity to humans.	
Reproductive toxicity	Based on available data, the o	classification criteria are not met.	
Specific target organ toxicity - single exposure	May cause respiratory irritation. May cause drowsiness or dizziness.		
Specific target organ toxicity - repeated exposure	May cause damage to organs (central nervous system, kidneys, liver) through prolonged or repeated exposure.		
Aspiration hazard	May be fatal if swallowed and enters airways.		
Mixture versus substance information	No information available.		
11.2. Information on other hazards			
Endocrine disrupting properties	to human health as assessed	any substances having endocrine disrupting properties with respect in accordance with the criteria set out in Regulations (EC) No 0 and (EU) 2018/605, at a concentration equal to or greater than	
Other information	Symptoms may be delayed.		

SECTION 12: Ecological information

12.1. Toxicity	Toxic to a	Toxic to aquatic life.			
Components		Species	Test Results		
4-methylpentan-2-one; isot	outyl methyl ketone	(CAS 108-10-1)			
Aquatic					
Acute					
Crustacea	EC50	Water flea (Daphnia magna)	3682 mg/l, 24 hours		
Fish	LC50	Pimephales promelas	505 mg/l, 96 Hours		
Chronic					
Crustacea	EC50	Daphnia magna	78 mg/l, 21 days		
Fish	NOEC	Pimephales promelas	57 mg/l, 31 days		
Ethylbenzene (CAS 100-41	-4)				
Aquatic					
Acute					
Crustacea	EC50	Water flea (Daphnia magna)	1,81 - 2,38 mg/l, 48 hours		
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	4,2 mg/l, 96 hours		
Chronic					
Crustacea	EC50	Ceriodaphnia dubia	3,6 mg/l, 7 days		
m-Xylene (CAS 108-38-3)					
Aquatic					
Acute					
Fish	LC50	Oncorhynchus mykiss	8,4 mg/l, 96 Hours		
o-Xylene (CAS 95-47-6)					
Aquatic					
Algae	EC50	Selenastrum capricornutum	4,7 mg/l, 72 Hours		
Fish	LC50	Oncorhynchus mykiss	7,6 mg/l, 96 hours		
p-Xylene (CAS 106-42-3)					
Aquatic					
Algae	EC50	Pseudokirchnerella subcapitata	3,2 mg/l, 72 Hours		
Crustacea	EC50	Daphnia magna	8,5 mg/l, 48 Hours		
Fish	LC50	Oncorhynchus mykiss	2,6 mg/l, 96 hours		

Components		Species	Test Results	
Toluene (CAS 108-88-3)				
Aquatic				
Acute				
Crustacea	EC50	Daphnia magna	11,5 mg/l, 48 hours	
Fish	LC50	Oncorhynchus kisutch	5,5 mg/l, 96 hours	
Chronic	NOFO			
Crustacea	NOEC	Ceriodaphnia dubia	0,74 mg/l, 7 days	
Fish	NOEC	Oncorhynchus kisutch	1,4 mg/l, 40 days	
12.2. Persistence and degradability	No data is	No data is available on the degradability of this product.		
12.3. Bioaccumulative potentia				
Partition coefficient n-octanol/water (log Kow)		able, product is a mixture.		
1-Methoxy-2-propanol (CAS		-0,49		
4-methylpentan-2-one; isobu Ethylbenzene (CAS 100-41-4		one (CAS 108-10-1) 1,31 3,15		
Toluene (CAS 108-88-3)	• /	2,73		
m-Xylene (CAS 108-38-3)		3,2		
o-Xylene (CAS 95-47-6) p-Xylene (CAS 106-42-3)		3,12 3,15		
Bioconcentration factor (BCF)	Not availa			
12.4. Mobility in soil		ict is moderately water soluble and	d may disperse in soil.	
12.5. Results of PBT and vPvB			ents considered to be either persistent,	
assessment		lative and toxic (PBT), or very pe	rsistent and very bioaccumulative (vPvB) at levels of	
12.6. Endocrine disrupting properties	to the env 1907/2006	This mixture does not contain any substances having endocrine disrupting properties with respect to the environment as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight.		
12.7. Other adverse effects	-	-	unds which have a photochemical ozone creation	
12.8. Additional information				
Estonia Dangerous substa	nces in soil	Data		
Ethylbenzene (CAS 100)-41-4)	ETHYLBENZ	ZENE 0,1 mg/kg ZENE 5 mg/kg	
m-Xylene (CAS 108-38-3)		Chemical pe 0,5 mg/kg	ZENE 50 mg/kg sticides (As the total sum of the active substances)	
		mg/kg	sticides (As the total sum of the active substances) 20	
o-Xylene (CAS 95-47-6)	,	mg/kg	sticides (As the total sum of the active substances) 5 sticides (As the total sum of the active substances)	
0-Xylene (CAS 95-47-6))	0,5 mg/kg	sticides (As the total sum of the active substances)	
		mg/kg	sticides (As the total sum of the active substances) 5	
p-Xylene (CAS 106-42-3)		mg/kg	sticides (As the total sum of the active substances)	
	- /	0,5 mg/kg	sticides (As the total sum of the active substances) 20	
		•	sticides (As the total sum of the active substances) 5	
Toluene (CAS 108-88-3)		mg/kg TOLUENE 0 TOLUENE 1 TOLUENE 3	00 mg/kg	
			iiig/kg	
SECTION 13: Disposal co	onsideratio	ons		

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.

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. 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

AUR			
14.1. UN number	UN1263		
14.2. UN proper shippin	PAINT RELATED MATERIAL		
name			
14.3. Transport hazard o	:lass(es)		
Class	3		
Subsidiary risk			
Label(s)	3		
Hazard No. (ADR)	33		
Tunnel restriction c			
14.4. Packing group			
14.5. Environmental haz			
14.6. Special precaution			
for user	• • • • • • • • • • • • • • • • • • •		
RID			
14.1. UN number	UN1263		
14.2. UN proper shippin			
name			
14.3. Transport hazard o	:lass(es)		
Class	3		
Subsidiary risk	-		
Label(s)	3		
14.4. Packing group			
14.5. Environmental haz			
14.6. Special precaution			
for user			
ADN			
14.1. UN number	UN1263		
14.2. UN proper shippin			
name			
14.3. Transport hazard o	class(es)		
Class	3		
Subsidiary risk	-		
Label(s)	3		
14.4. Packing group			
14.5. Environmental haz			
14.6. Special precaution			
for user			
ΙΑΤΑ			
14.1. UN number	UN1263		
14.2. UN proper shippin			
name	5		
14.3. Transport hazard o	:lass(es)		
Class	3		
Subsidiary risk			
Label(s)	3		
14.4. Packing group			
14.5. Environmental haz	ards No		
14.5. Environmental haz ERG Code	ards No 3L		
ERG Code	3L		
	3L		

IMDG

14.1. UN number	UN1263		
14.2. UN proper shipping	PAINT RELATED MATERIAL		
name			
14.3. Transport hazard class	(es)		
Class	3		
Subsidiary risk	-		
14.4. Packing group	I		
14.5. Environmental hazards			
Marine pollutant	No		
EmS	F-E, <u>S-E</u>		
14.6. Special precautions	Read safety instructions, SDS and emergency procedures before handling.		
for user			
14.7. Maritime transport in bulk according to IMO instruments	Not established.		
SECTION 15: Regulatory information			
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture			
EU regulations			
Regulation (EC) No. 1005/20 Not listed.	09 on substances that deplete the ozone layer, Annex I and II, as amended		
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

Ethylbenzene (CAS 100-41-4) m-Xylene (CAS 108-38-3) o-Xylene (CAS 95-47-6) p-Xylene (CAS 106-42-3) Toluene (CAS 108-88-3)

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

1-Methoxy-2-propanol (CAS 107-98-2)		3
4-methylpentan-2-one; isobutyl methyl ketone		40
(CAS 108-10-1) Toluene (CAS 108-88-3)		48
	protection of workers from	the risks related to exposure to carcinogens and mutagens at
Toluene (CAS 108-88-3)		
Regulation 2019/1148 on Ma	rketing and Use of Explosiv	e Precursors, Annex I, as amended
Not listed.		
Regulation 2019/1148 on Ma	rketing and Use of Explosiv	e Precursors, Annex II, as amended
Not listed.		
Other EU regulations	Directive 2012/18/EU on ma	jor accident hazards involving dangerous substances, as amended
	ANNEX 1 PART 1 Categori	es of dangerous substances

ANNEX 1, PART 1 Categories of dangerous substances Hazard categories in accordance with Regulation (EC) No 1272/2008 - P5a, b or c FLAMMABLE LIQUIDS

Other regulations	The product is classified a	nd 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 92/8 if there is the least risk of e	35/EEC as amended, pregnant women should not work with the product, exposure.			
	Young people under 18 years old are not allowed to work with this product according to E Directive 94/33/EC on the protection of young people at work, as amended. Follow natior regulation for work with chemical agents in accordance with Directive 98/24/EC, as amen				
France regulations					
France INRS Table of Occup	pational Diseases				
4-methylpentan-2-one; is (CAS 108-10-1)	obutyl methyl ketone	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			
m-Xylene (CAS 108-38-3	3)	Affections gastro-intestinales provoquées par le benzène, le toluène, les xylènes et tous les produits en renfermant 4 bis			
o-Xylene (CAS 95-47-6)		Affections gastro-intestinales provoquées par le benzène, le toluène, les xylènes et tous les produits en renfermant 4 bis			
15.2. Chemical safety assessment	No Chemical Safety Asses	ssment has been carried out.			
SECTION 16: Other inform	nation				
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 Roa 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. NOEC: No observed effect 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 Ave				
	VLE: Exposure Limit Value				
	VME: Exposure Average V vPvB: very Persistent, very				
References	ACGIH Documentation of ECHA: European Chemica EPA: AQUIRE database	the Threshold Limit Values and Biological Exposure Indices al Agency.			
	HSDB® - Hazardous Subs				
	National Toxicology Progra	I Evaluation of Carcinogenicity am (NTP) Report on Carcinogens			
Information on evaluation method leading to the classification of mixture	NLM: Hazardous Substances Data Base The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.				
Full text of any statements, which are not written out in full					
under sections 2 to 15	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.				
	H319 Causes serious eye				
	H332 Harmful if inhaled. H335 May cause respirato	rv irritation.			
	H336 May cause drowsine	ss or dizziness.			
	H351 Suspected of causin H361d Suspected of dama				
STEEL-IT 6811 Equipment Cleaning I	-	sding the unborn child.			

H373 May cause damage to organs through prolonged or repeated exposure by inhalation.H373 May cause damage to organs through prolonged or repeated exposure.H412 Harmful to aquatic life with long lasting effects.Training informationFollow training instructions when handling this material.

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.