## SAFETY DATA SHEET

Version #: 20 Issue date: 02-28-2013 Revision date: 07-26-2023 Supersedes date: 07-12-2023

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

	. , , , , , , , , , , , , , , , , , , ,
1.1. Product identifier Trade name or designation	Chockfast Red Resin
of the mixture	
Registration number	-
Synonyms	None.
SKU#	GP107R
1.2. Relevant identified uses of t Identified uses	<b>he substance or mixture and uses advised against</b> Not available.
Uses advised against	None known.
1.3. Details of the supplier of the	e safety data sheet
Company Name	ITW Performance Polymers
Address	Bay 150
	Shannon Industrial Estate
	Co. Clare
	Ireland
	V14 DF82
Contact Person	Customer Service
Telephone Number	353(61)771500
	353(61)471285
Email	customerservice.shannon@itwpp.com
Emergency Phone Number	44(0) 1235 239 670 (24 hours)
1.4. Emergency telephone numb General in EU	er 112 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Austria National Poisons Information Center	+431 406 4343 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Belgium National Poisons Control Center	070 245 245 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Bulgaria National Toxicological Information Center	+359 2 9154 233 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Croatia Poisons Information Center	+385 1 2348 342 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)
Cyprus Poison Center	1401 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Czech Republic National Poisons Information Center	+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 Center	+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 Center	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 Center	(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 Center	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.)

I.4. Emergency telephone number				
Greece Poison Information Centre	(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 Center	(+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 Center	+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 Center (NVIC)	NVIC: +31 (0)88 755 8000 (Only for the purpose of informing medical personnel in cases of acute intoxications)			
Norway Norwegian Poison Information Center	22 59 13 00 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)			
Portugal Poison Center	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 Center	+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 Center	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.)			

### **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

Health hazards Acute toxicity, dermal	Category 4	H312 - Harmful in contact with skin.
•	0,	
Skin corrosion/irritation	Category 2	H315 - Causes skin irritation.
Serious eye damage/eye irritation	Category 2	
Skin sensitization	Category 1	H317 - May cause an allergic skin reaction.
Environmental hazards Hazardous to the aquatic environment, long-term aquatic hazard	Category 3	H412 - Harmful to aquatic life with long lasting effects.

### 2.2. Label elements

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

Austria: 61D0-Q0F3-F001-EJPQ Belgium: 61D0-Q0F3-F001-EJPQ Bulgaria: 61D0-Q0F3-F001-EJPQ Croatia: 61D0-Q0F3-F001-EJPQ Cyprus: 61D0-Q0F3-F001-EJPQ Czech Republic: 61D0-Q0F3-F001-EJPQ Denmark: 61D0-Q0F3-F001-EJPQ Estonia: 61D0-Q0F3-F001-EJPQ EU: 61D0-Q0F3-F001-EJPQ Finland: 61D0-Q0F3-F001-EJPQ France: 61D0-Q0F3-F001-EJPQ Germany: 61D0-Q0F3-F001-EJPQ Greece: 61D0-Q0F3-F001-EJPQ Hungary: 61D0-Q0F3-F001-EJPQ Iceland: 61D0-Q0F3-F001-EJPQ Ireland: 61D0-Q0F3-F001-EJPQ Italy: 61D0-Q0F3-F001-EJPQ Latvia: 61D0-Q0F3-F001-EJPQ Lithuania: 61D0-Q0F3-F001-EJPQ Luxembourg: 61D0-Q0F3-F001-EJPQ Malta: 61D0-Q0F3-F001-EJPQ Netherlands: 61D0-Q0F3-F001-EJPQ Norway: 61D0-Q0F3-F001-EJPQ Poland: 61D0-Q0F3-F001-EJPQ Portugal: 61D0-Q0F3-F001-EJPQ Romania: 61D0-Q0F3-F001-EJPQ Slovakia: 61D0-Q0F3-F001-EJPQ Slovenia: 61D0-Q0F3-F001-EJPQ Spain: 61D0-Q0F3-F001-EJPQ Sweden: 61D0-Q0F3-F001-EJPQ

**Contains:** 

Hazard pictograms

Epoxy Resin: Reaction product of bisphenol A and epichlorohydrin (refer to epichlorohydrin), o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]



### Signal word

### Hazard statements

H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H333	May be harmful if inhaled.
H412	Harmful to aquatic life with long lasting effects.

### Precautionary statements

Prevention	
P261	Avoid breathing mist/vapors.
P264	Wash thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear eye protection/face protection.
P280	Wear protective gloves/protective clothing.
Response	
P302 + P352	IF ON SKIN: Wash with plenty of water.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
Storage	Not available.
Disposal	
P501	Dispose of contents/container in accordance with local/regional/national/international regulations
Supplemental label information	95% of the mixture consists of component(s) of unknown acute oral toxicity. 95% of the mixture consists of component(s) of unknown acute dermal toxicity. 99,5% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment.

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII. The mixture does not contain any substances included in the list established in accordance with REACH Article 59(1) for having endocrine disrupting properties at a concentration equal to or greater than 0.1% by weight.

	conce	· · ·				
SECTION 3: Compo	sition/inforn	nation on	ingredients			
3.2. Mixtures						
General information						
Chemical name		%	CAS-No. / EC No.	<b>REACH Registration No.</b>	Index No.	Notes
Epoxy Resin: Reaction bisphenol A and epich (refer to epichlorohydr	lorohydrin	60 - 100	25068-38-6 -	01-2119456619-26-0000	-	
	Classification:	Skin Irrit. 2	;H315, Eye Irrit. 2;H3	319, Skin Sens. 1;H317		
o-xylene; [1] p-xylene; [3] xylene [4]	[2] m-xylene;	1 - 5	1330-20-7 215-535-7	-	601-022-00-9	#
	Classification:			;H312;(ATE: 1100 mg/kg bv t. 2;H315, Aquatic Chronic 2		
ethylbenzene		< 1	100-41-4 202-849-4	-	601-023-00-4	#
	Classification:			;H332;(ATE: 11 mg/l), Carc H304, Aquatic Chronic 2;H4		
ATE: Acute toxicity es M: M-factor vPvB: very persistent PBT: persistent, bioac #: This substance has All concentrations are Composition comments	and very bioacc cumulative and been assigned in percent by w	toxic substa Union work eight unless	ance. place exposure limit(	Gas concentrations are in p	ercent by volume.	
SECTION 4: First ai	d measures					
General information	protec clothin		s. Show this safety d	are of the material(s) involve ata sheet to the doctor in at		
4.1. Description of first a Inhalation		ta fraab air	Call a physician if av	matama davalan ar naraiat		
Skin contact	Remo advice	ve contamir /attention if	nated clothing immed you feel unwell. In ca	mptoms develop or persist. ately and wash skin with so ase of eczema or other skin ons. Wash contaminated clo	disorders: Seek m	edical
Eye contact	Immed	liately flush	eyes with plenty of w	vater for at least 15 minutes. ng. Get medical attention if i	Remove contact	enses, if
Ingestion	Rinse	mouth. Get	medical advice/atten	tion if you feel unwell.		
4.2. Most important symp and effects, both acute a delayed				nclude stinging, tearing, red ss and pain. May cause an		
4.3. Indication of any immediate medical attent and special treatment ne	tion under		upportive measures a . Symptoms may be	and treat symptomatically. K	eep victim warm.	Keep victim
	0404					
•		es				
SECTION 5: Firefigh	nting measu	<b>'es</b> ustible liquio				
SECTION 5: Firefigh General fire hazards 5.1. Extinguishing media Suitable extinguishir	n <b>ting measu</b> Comb	ustible liquio	d.			
SECTION 5: Firefigh General fire hazards 5.1. Extinguishing media	nting measur Comb ng Water	ustible liquio fog. Foam.	d. Dry chemical powde	delayed.		
SECTION 5: Firefigh General fire hazards 5.1. Extinguishing media Suitable extinguishir media Unsuitable extinguis media 5.2. Special hazards arisi	nting measur Comb ng Water hing Do no ing The pr	ustible liquid fog. Foam. use water oduct is col	d. Dry chemical powde jet as an extinguishe mbustible, and heatin	delayed.		
SECTION 5: Firefigh General fire hazards 5.1. Extinguishing media Suitable extinguishir media Unsuitable extinguis	nting measur Comb ng Water hing Do no ing The pr ixture mixtur s Self-co	ustible liquid fog. Foam. : use water oduct is con es. During f	d. Dry chemical powde jet as an extinguishe mbustible, and heatin ire, gases hazardous	delayed. r. Carbon dioxide (CO2). r, as this will spread the fire. g may generate vapors whi	ch may form explo	sive vapor/a

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

6.1. Borgonal progrations, protoc	tive equipment and emergency procedures			
For non-emergency personnel	Avoid breathing mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material.			
For emergency responders	Keep unnecessary personnel away. Ensure adequate ventilation. Avoid breathing mist/vapors. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.			
6.2. Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.			
6.3. Methods and material for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Prevent entry into waterways, sewer, basements or confined areas.			
	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.			
	Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.			
	Never return spills to original containers for re-use.			
6.4. Reference to other sections	For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.			
<b>SECTION 7: Handling and</b>	storage			
7.1. Precautions for safe handling	Keep away from open flames, hot surfaces and sources of ignition. Avoid breathing mist/vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.			
7.2. Conditions for safe storage, including any incompatibilities	Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).			

7.3. Specific end use(s) Observe industrial sector guidance on best practices.

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

### 8.1. Control parameters

### **Occupational exposure limits**

#### Austria. MAK List, OEL Ordinance (GwV), BGBI. II, no. 184/2001, as amended

Components	Туре	Value	
ethylbenzene (CAS 100-41-4)	Ceiling	880 mg/m3	
		200 ppm	
	MAK	440 mg/m3	
		100 ppm	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	MAK	221 mg/m3	
· · · ·		50 ppm	
	STEL	442 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	
ethylbenzene (CAS 100-41-4)	STEL	551 mg/m3	
		125 ppm	
	TWA	87 mg/m3	
		20 ppm	

Components	Туре	Value
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	442 mg/m3
		100 ppm
	TWA	221 mg/m3
		50 ppm

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

Components	Туре	Value	
ethylbenzene (CAS 100-41-4)	STEL	545 mg/m3	
	TWA	435 mg/m3	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 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	
ethylbenzene (CAS 100-41-4)	MAC	442 mg/m3	
		100 ppm	
	STEL	884 mg/m3	
		200 ppm	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	MAC	221 mg/m3	
		50 ppm	
	STEL	442 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	Туре	Value	
ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
		100 ppm	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	

# Czech Republic. Occupational exposure limit values of chemicals at work (Decree on protection of health at work, 361/2007, Annex 2, Part A & Annex 3, Part A, as amended)

Components	Туре	Value
ethylbenzene (CAS 100-41-4)	Ceiling	500 mg/m3
	TWA	200 mg/m3

361/2007, Annex 2, Part A & Anne Components	Туре	Value
-xylene; [1] p-xylene; [2] n-xylene; [3] xylene [4] CAS 1330-20-7)	Ceiling	400 mg/m3
,	TWA	200 mg/m3
Denmark. Work Environment Aut Components	thority. Exposure Limits for Sul Type	bstances & Materials, Annex 2 Value
ethylbenzene (CAS 100-41-4)	TLV	217 mg/m3
		50 ppm
o-xylene; [1] p-xylene; [2] n-xylene; [3] xylene [4] ′CAS 1330-20-7)	TLV	109 mg/m3
,		25 ppm
Estonia. OELs. Occupational Exp	oosure Limits of Hazardous Sul	bstances (Regulation No. 105/2001, Annex), as amende
Components	Туре	Value
ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3
		200 ppm
	TWA	442 mg/m3
		100 ppm
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	450 mg/m3
,		100 ppm
	TWA	200 mg/m3
		50 ppm
Finland. HTP-arvot, App 3., Bindi Components	ng Limit Values, Social Affairs Type	and Ministry of Health Value
ethylbenzene (CAS 100-41-4)	STEL	880 mg/m3
		200 ppm
	TWA	220 mg/m3
		50 ppm
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	440 mg/m3
· ·		100 ppm
	TWA	220 mg/m3
		50 ppm
France. OELs. Occupational Exp Components	osure Limits as Prescribed by Type	Art. R.4412-149 of Labor Code, as amended Value
ethylbenzene (CAS 100-41-4)	VLE	442 mg/m3
		100 ppm

o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7) VME

VLE

VME

88,4 mg/m3 20 ppm

442 mg/m3

100 ppm

221 mg/m3 50 ppm

Components	Туре	Value
ethylbenzene (CAS 100-41-4)	VLE	442 mg/m3
Regulatory status:	Regulatory binding (VRC)	
		100 ppm
<b>Regulatory status:</b>	Regulatory binding (VRC)	
	VME	88,4 mg/m3
<b>Regulatory status:</b>	Regulatory binding (VRC)	
		20 ppm
<b>Regulatory status:</b>	Regulatory binding (VRC)	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	VLE	442 mg/m3
<b>Regulatory status:</b>	Regulatory binding (VRC)	
		100 ppm
<b>Regulatory status:</b>	Regulatory binding (VRC)	
	VME	221 mg/m3
<b>Regulatory status:</b>	Regulatory binding (VRC)	
		50 ppm
<b>Regulatory status:</b>	Regulatory binding (VRC)	
Germany. DFG MAK List in the Work Area (DFG),		Investigation of Health Hazards of Chemical Compounds
Components	Туре	Value
ethylbenzene (CAS 100-41-4)	TWA	88 mg/m3
		20 ppm
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	TWA	220 mg/m3
· · · · · /		50 ppm
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### Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace

Components	Туре	Value	
ethylbenzene (CAS 100-41-4)	AGW	88 mg/m3	
		20 ppm	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	AGW	220 mg/m3	

50 ppm

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

Components	Туре	Value
ethylbenzene (CAS 100-41-4)	STEL	545 mg/m3
		125 ppm
	TWA	435 mg/m3
		100 ppm
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	650 mg/m3
		150 ppm
	TWA	435 mg/m3
		100 ppm
Hungary. OELs. Decree on prote Components	ction of workers exposed to ch Type	emical agents (5/2020. (II.6)), Annex 1&2, as amended Value

Components	Туре	nemical agents (5/2020. (II.6)), Annex 1&2, as amended Value
	TWA	442 mg/m3
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	442 mg/m3
	TWA	221 mg/m3
Iceland. OELs. Regulation 390/20 Components	09 on Pollution Limits and Me Type	asures to Reduce Pollution at the Workplace, as amendec Value
ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3
		200 ppm
	TWA	200 mg/m3
		50 ppm
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	442 mg/m3
<b>``</b>		100 ppm
	TWA	109 mg/m3
		25 ppm
Ireland. OELVs, Schedules 1 & 2,	Code of Practice for Chemica	I Agents and Carcinogens Regulations
Components	Туре	Value
ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3

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100-41-4)	SILL	004 mg/mo	
		200 ppm	
	TWA	442 mg/m3	
		100 ppm	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	

## Italy. OELs (Legislative Decree n.81, 9 April 2008), as amended

Components	Туре	Value	
ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
		100 ppm	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 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	
ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
		100 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	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	

# Lithuania. OELs. Occupational Exposure Limit Values for Chemical Substances (Hygiene Norm HN 23:2011; Order No. V-824/A1-389), as amended

Components	Туре	Value	
ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
		100 ppm	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	

## 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	
ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
		100 ppm	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	

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

Components	Туре	Value	
ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
		100 ppm	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	

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

Components	Туре	Value	
ethylbenzene (CAS 100-41-4)	STEL	430 mg/m3	

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

amended		
Components	Туре	Value
	TWA	215 mg/m3
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	442 mg/m3
	TWA	210 mg/m3
Norway. Regulation No. 1358 on Infection Groups for Biological F		r Physical and Chemical Factors in Work Environment and
Components	Туре	Value
ethylbenzene (CAS 100-41-4)	TLV	20 mg/m3
		5 ppm
o-xylene; [1] p-xylene; [2]	TLV	108 mg/m3

m-xylene; [3] xylene [4] (CAS 1330-20-7)

### 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	
ethylbenzene (CAS 100-41-4)	STEL	400 mg/m3	
	TWA	200 mg/m3	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	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
ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3
		200 ppm
	TWA	442 mg/m3
		100 ppm
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	442 mg/m3
		100 ppm
	TWA	221 mg/m3
		50 ppm
Portugal. VLEs. Norm on occupati		
Components	Туре	Value
ethylbenzene (CAS 100-41-4)	TWA	20 ppm
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] ′CAS 1330-20-7)	STEL	150 ppm
	TWA	100 ppm
Romania. OELs. Limit Values of Cl amended)	nemical Agents at Workplace	(Regulation 1.218/2006, M.O 845, Annex 1, 3&4, as
•	-	Value
Components	Туре	value
ethylbenzene (CAS	STEL	884 mg/m3
ethylbenzene (CAS		
Components ethylbenzene (CAS 100-41-4)		884 mg/m3

# 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	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 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	
ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
		100 ppm	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 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

Components	Туре	Value	
ethylbenzene (CAS 100-41-4)	TWA	442 mg/m3	
		100 ppm	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	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	
ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	441 mg/m3	
		100 ppm	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	

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

Components	Туре	Value	
ethylbenzene (CAS 100-41-4)	Ceiling	884 mg/m3	
		200 ppm	
	TWA	220 mg/m3	
		50 ppm	

Components	Туре	Value
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	Ceiling	442 mg/m3
		100 ppm
	TWA	221 mg/m3
		50 ppm
Switzerland. SUVA Grenzwerte a	m Arbeitsplatz: Aktuelle MAK-V	Verte
Components	Туре	Value
ethylbenzene (CAS 100-41-4)	STEL	220 mg/m3
		50 ppm
	TWA	220 mg/m3
		50 ppm
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	870 mg/m3
,		200 ppm
	TWA	435 mg/m3
		100 ppm
UK. OELs. Workplace Exposure I	_imits (WELs) (EH40/2005 (Fou	rth Edition 2020)). Table 1
Components	Туре	Value
thylbenzene (CAS 00-41-4)	STEL	552 mg/m3
		125 ppm
	TWA	441 mg/m3
		100 ppm
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	441 mg/m3
		100 ppm
	TWA	220 mg/m3
		50 ppm
EU. Indicative Exposure Limit Va	lues in Directives 91/322/EEC, 2	2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU
Components	Туре	Value
ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3
		200 ppm
	TWA	442 mg/m3
		100 ppm

o-xylene; [1] p-xylene; [2]	
m-xylene; [3] xylene [4]	
(CAS 1330-20-7)	

# STEL TWA

### **Biological limit values**

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

442 mg/m3

100 ppm

221 mg/m3 50 ppm

Components	Value	Determinant	Specimen	Sampling Time	
ethylbenzene (CAS 100-41-4)	1,5 g/g	Mandelic acid	Creatinine in urine	*	
	1,5 mg/l	ethylbenzene	Blood	*	

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

Components	Value	Determinant	Specimen	Sampling Time	
	1,12 mol/mol	Mandelic acid	Creatinine in urine	*	
	14,1 umol/l	ethylbenzene	Blood	*	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	1,5 g/g	Methylhippuric acids	Creatinine in urine	*	
	1,5 mg/l	xylene	Blood	*	
	0,88 mol/mol	Methylhippuric acids	Creatinine in urine	*	
	14,13 umol/l	xylene	Blood	*	

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

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

Components	Value	Determinant	Specimen	Sampling Time	
ethylbenzene (CAS 100-41-4)	1100 µmol/mmol	Mandelic acid	Creatinine in urine	*	
	1500 mg/g	Mandelic acid	Creatinine in urine	*	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	820 µmol/mmol	Methylhippuric acids	Creatinine in urine	*	
· · · · ·	1400 mg/g	Methylhippuric acids	Creatinine in urine	*	

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

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

Components	Value	Determinant	Specimen	Sampling Time
ethylbenzene (CAS 100-41-4)	5,2 mmol/l	Mandelic acid	Urine	*
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	5 mmol/l	Methylhippuric acids	Urine	*

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

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

Components	Value	Determinant	Specimen	Sampling Time
ethylbenzene (CAS 100-41-4)	1500 mg/g	Acide mandélique	Creatinine in urine	*
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	1500 mg/g	Acides méthylhippuriq ues	Creatinine in urine	*

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

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

Components	Value	Determinant	Specimen	Sampling Time	
ethylbenzene (CAS 100-41-4)	250 mg/g	Mandelsäure plus Phenylglyoxyls äure	Creatinine in urine	*	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	2000 mg/l	Methylhippur-(T olur-) säure (alle Isomere)	Urine	*	

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

## Hungary. BELs. Decree on protection of workers exposed to chemical agents (5/2020. (II.6)), Annex 3&4, as amendedComponentsValueDeterminantSpecimenSampling Time

-			-		
ethylbenzene (CAS 100-41-4)	1110 µmol/mmol	mandelic acid	Creatinine in urine	*	
	1500 mg/g	mandelic acid	Creatinine in urine	*	

# Hungary. BELs. Decree on protection of workers exposed to chemical agents (5/2020. (II.6)), Annex 3&4, as amendedComponentsValueDeterminantSpecimenSampling Time

			-	5	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	860 µmol/mmol	methyl hippuric acids	Creatinine in urine	*	
	1500 mg/g	methyl hippuric acids	Creatinine in urine	*	

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

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

Value	Determinant	Specimen	Sampling Time	
8,03 mg/g	2 and 4-ethylphenol	Creatinine in urine	*	
12 mg/l	2 and 4-ethylphenol	Urine	*	
1334 mg/g	Methylhippuric acids	Creatinine in urine	*	
2000 mg/l	Methylhippuric acids	Urine	*	
1,5 mg/l	xylene	Blood	*	
	8,03 mg/g 12 mg/l 1334 mg/g 2000 mg/l	8,03 mg/g2 and 4-ethylphenol12 mg/l2 and 4-ethylphenol1334 mg/gMethylhippuric acids2000 mg/lMethylhippuric acids	8,03 mg/g2 and 4-ethylphenolCreatinine in urine12 mg/l2 and 4-ethylphenolUrine1334 mg/gMethylhippuric acidsCreatinine in urine2000 mg/lMethylhippuric acidsUrine	8,03 mg/g     2 and 4-ethylphenol     Creatinine in urine     *       12 mg/l     2 and 4-ethylphenol     Urine     *       1334 mg/g     Methylhippuric acids     Creatinine in urine     *       2000 mg/l     Methylhippuric acids     Urine     *

\* - 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

ethylbenzene (CAS 100-41-4)	700 mg/g	Suma del acido mandélico y el ácido fenilglioxílico	Creatinine in urine	*
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	1 g/g	Ácidos metilhipúricos	Creatinine in urine	*

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

### Switzerland. SUVA Grenzwerte am Arbeitsplatz: Aktuelle BAT-Werte

Components	Value	Determinant	Specimen	Sampling Time
ethylbenzene (CAS 100-41-4)	600 mg/g	Mandelsäure + Phenylglyoxyls äure	Creatinine in urine	*
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	2 g/l	Methylhippursä uren	Urine	*

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

### UK. BELs. Biological Monitoring Guidance Values (BMGVs) (EH40/2005 (Fourth Edition 2020)), Table 2

Components	Value	Determinant	Specimen	Sampling Time
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	650 mmol/mol	Methyl hippuric acid	Creatinine in urine	*
* - For sampling details, ple	ease see the source doo	cument.		
Recommended monitoring procedures	Follow standard mo	onitoring procedures		
Derived no effect levels (DNELs)	Not available.			
Predicted no effect concentrations (PNECs)	Not available.			
Exposure guidelines				
Austria MAK: Skin desigi	nation			
ethylbenzene (CAS 100-41-4) o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)			absorbed throug absorbed throug	
Belgium OELs: Skin desi	gnation			
ethylbenzene (CAS 10	00-41-4)	Can be	absorbed throug	gh the skin.

o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] Can be absorbed through the skin. (CAS 1330-20-7) **Bulgaria OELs: Skin designation** ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] Can be absorbed through the skin. (CAS 1330-20-7) Croatia ELVs: Skin designation ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] Can be absorbed through the skin. (CAS 1330-20-7) Czech Republic PELs: Skin designation ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] Can be absorbed through the skin. (CAS 1330-20-7) **Denmark GV: Skin designation** ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. Can be absorbed through the skin. o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7) Estonia OELs: Skin designation ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. Can be absorbed through the skin. o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7) EU Exposure Limit Values: Skin designation ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] Can be absorbed through the skin. (CAS 1330-20-7) Finland Exposure Limit Values: Skin designation ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] Can be absorbed through the skin. (CAS 1330-20-7) France INRS: Skin designation ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. Can be absorbed through the skin. o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7) France Mandatory OELs (VLEP): Skin designation ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] Can be absorbed through the skin. (CAS 1330-20-7) Germany DFG MAK (advisory): Skin designation ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. Can be absorbed through the skin. o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7) Germany TRGS 900 Limit Values: Skin designation ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] Can be absorbed through the skin. (CAS 1330-20-7) Greece OEL: Skin designation o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] Can be absorbed through the skin. (CAS 1330-20-7) Hungary OELs: Skin designation ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] Can be absorbed through the skin. (CAS 1330-20-7) Iceland OELs: Skin designation ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] Can be absorbed through the skin. (CAS 1330-20-7) Ireland Exposure Limit Values: Skin designation ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] Can be absorbed through the skin. (CAS 1330-20-7) Italy OELs: Skin designation ethylbenzene (CAS 100-41-4) Danger of cutaneous absorption o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] Danger of cutaneous absorption (CAS 1330-20-7) Latvia OELs: Skin designation

Material name: Chockfast Red ResinGP107RVersion #: 20Revision date: 07-26-2023Issue date: 02-28-2013

ethylbenzene (CAS 100-41-4)

Can be absorbed through the skin.

cxylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]       Can be absorbed through the skin.         cxylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]       Can be absorbed through the skin.         (CAS 1330-20-7)       Can be absorbed through the skin.         ethylbenzene (CAS 100-41-4)       Can be absorbed through the skin.         cxylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]       Can be absorbed through the skin.         (CAS 1330-20-7)       the absorbed through the skin.         veltherizate (CAS 100-41-4)       Can be absorbed through the skin.         cxylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]       Can be absorbed through the skin.         (CAS 1330-20-7)       Can be absorbed through the skin.
ethylbenzene (CAS 100-41-4)Can be absorbed through the skin.oxylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]Can be absorbed through the skin.ethylbenzene (CAS 100-41-4)Can be absorbed through the skin.oxylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]Can be absorbed through the skin.(CAS 1330-20-7)Can be absorbed through the skin.ethylbenzene (CAS 100-41-4)Can be absorbed through the skin.oxylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]Can be absorbed through the skin.(CAS 1330-20-7)Can be absorbed through the skin.ethylbenzene (CAS 100-41-4)Can be absorbed through the skin.oxylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]Can be absorbed through the skin.oxylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]Can be absorbed through the skin.oxylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]Can be absorbed through the skin.oxylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]Can be absorbed through the skin.oxylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]Can be absorbed through the skin.oxylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]Can be absorbed through the skin.oxylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]Can be absorbed through the skin.oxylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]Can be absorbed through the skin.oxylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]Can be absorbed through the skin.oxylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]Can be absorbed through the skin.(CAS 1330-20-7)Can be absorbed through the skin.Stovatal OELs:
cxs/ene; [1] p-xylene; [2] m-xylene; [3] xylene [4]       Can be absorbed through the skin.         cxs/ene; [1] p-xylene; [2] m-xylene; [3] xylene [4]       Can be absorbed through the skin.         cxs/vene; [1] p-xylene; [2] m-xylene; [3] xylene [4]       Can be absorbed through the skin.         (CAS 1330-20-7)       Wata OELs: Skin designation       Ethylbenzene (CAS 100-41-4)         ethylbenzene (CAS 100-41-4)       Can be absorbed through the skin.         o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]       Can be absorbed through the skin.         (CAS 1330-20-7)       Vetherlands OELs (binding): Skin designation         ethylbenzene (CAS 100-41-4)       Can be absorbed through the skin.         o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]       Can be absorbed through the skin.         (CAS 1330-20-7)       Vorway Exposure Limit Values: Skin designation         ethylbenzene (CAS 100-41-4)       Can be absorbed through the skin.         o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]       Can be absorbed through the skin.         (CAS 1330-20-7)       Vorway Exposure Limit Values: Skin designation         ethylbenzene (CAS 100-41-4)       Can be absorbed through the skin.         o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]       Can be absorbed through the skin.         (CAS 1330-20-7)       Can be absorbed through the skin.         Obreatis Skin designation       Can be abso
(CAS 1330-20-7)         Luxembourg OELs: Skin designation         ethylbenzene (CAS 100-41-4)       Can be absorbed through the skin.         (CAS 1330-20-7)         Valta OELs: Skin designation         ethylbenzene (CAS 100-41-4)       Can be absorbed through the skin.         o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]       Can be absorbed through the skin.         (CAS 1330-20-7)       Vetherlands OELs (binding): Skin designation         ethylbenzene (CAS 100-41-4)       Can be absorbed through the skin.         o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]       Can be absorbed through the skin.         (CAS 1330-20-7)       Vetherlands OELs (binding): Skin designation         ethylbenzene (CAS 100-41-4)       Can be absorbed through the skin.         o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]       Can be absorbed through the skin.         (CAS 1330-20-7)       Vortugal OELs: Skin designation         ethylbenzene (CAS 100-41-4)       Can be absorbed through the skin.         (CAS 1330-20-7)       Can be absorbed through the skin.         Vortugal OELs: Skin designation       Can be absorbed through the skin.         ethylbenzene (CAS 100-41-4)       Can be absorbed through the skin.         (CAS 1330-20-7)       Can be absorbed through the skin.         Stovatia OELs: Skin designation       Can be absorbed through the skin.
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(CAS 1330-20-7)         Walta OELs: Skin designation         ethylbenzene (CAS 100-41-4)       Can be absorbed through the skin.         (CAS 1330-20-7)         Vetherlands OELs (binding): Skin designation         ethylbenzene (CAS 100-41-4)       Can be absorbed through the skin.         o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]       Can be absorbed through the skin.         o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]       Can be absorbed through the skin.         o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]       Can be absorbed through the skin.         o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]       Can be absorbed through the skin.         o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]       Can be absorbed through the skin.         (CAS 1330-20-7)       Can be absorbed through the skin.         o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]       Can be absorbed through the skin.         (CAS 1330-20-7)       Can be absorbed through the skin.         o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]       Can be absorbed through the skin.         o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]       Can be absorbed through the skin.         (CAS 1330-20-7)       Can be absorbed through the skin.       Can be absorbed through the skin.         o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]       Can be absorbed through the skin.
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Switzerland SUVA Limit Values at the Workplace: Skin designation
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JK EH40 WEL: Skin designation
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o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] Can be absorbed through the skin. (CAS 1330-20-7)
Exposure controls
<b>opriate engineering</b> <b>rols</b> Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.
idual 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). Face shield is recommended.

Skin protection		
- Hand protection	Wear appropriate chemical resistant gloves.	
- 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.	
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. Contaminated work clothing should not be allowed out of the workplace.	
Environmental exposure controls	Inform appropriate managerial or supervisory personnel of all environmental releases. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.	

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

9.1. Information on basic physic	al and chemical properties
Physical state	Liquid.
Form	Liquid.
Color	Colorless to light yellow.
Odor	Aromatic. Hydrocarbon-like.
Melting point/freezing point	Not available.
Boiling point or initial boiling point and boiling range	280,4 °F (138 °C)
Flammability	Not applicable.
Flash point	150,0 °F (65,6 °C) Pensky-Martens Closed Cup
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
рН	7
Kinematic viscosity	Not available.
Solubility	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water) (log value)	Not available.
Vapor pressure	5,6 hPa estimated
Density and/or relative density	Not available.
Vapor density	3,5
Particle characteristics	Not available.
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	0,6
Specific gravity	1,2
VOC	52 g/l
<b>SECTION 10: Stability and</b>	d reactivity
10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transpo

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.	
10.4. Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.	
10.5. Incompatible materials	Strong oxidizing agents.	
10.6. Hazardous decomposition products	Carbon oxides.	

SECTION 11: Toxicological information		
General information	Occupational exposure to the substance or mixture may cause adverse effects.	
Information on likely route	s of exposure	
Inhalation	Prolonged inhalation may be harmful.	
Skin contact	Harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction.	
Eye contact	Causes serious eye irritation.	
Ingestion	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.	
Symptoms	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.	

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

Acute toxicity	Harmful in contact with skin.		
Components	Species Test Results		
ethylbenzene (CAS 100-41-4)			
<u>Acute</u>			
Dermal			
LD50	Rabbit	17800 mg/kg	
Oral		0500 "	
LD50	Rat	3500 mg/kg	
o-xylene; [1] p-xylene; [2] m-xylen	e; [3] xylene [4] (CAS 1330-20-7	)	
<u>Acute</u> Oral			
LD50	Rat	3523 - 8600 mg/kg	
Skin corrosion/irritation	Causes skin irritation.		
Serious eye damage/eye	Causes serious eye irritation.		
irritation	Causes senous eye initation.		
Respiratory sensitization	Due to partial or complete lac	k of data the classification is not possible.	
Skin sensitization	May cause an allergic skin rea	May cause an allergic skin reaction.	
Germ cell mutagenicity	Due to partial or complete lack of data the classification is not possible.		
Carcinogenicity	Due to partial or complete lack of data the classification is not possible.		
IARC Monographs. Overall	Evaluation of Carcinogenicity		
ethylbenzene (CAS 100- o-xylene; [1] p-xylene; [2]		2B Possibly carcinogenic to humans. 3 Not classifiable as to carcinogenicity to humans.	
(CAS 1330-20-7)			
Reproductive toxicity	Due to partial or complete lack of data the classification is not possible.		
Specific target organ toxicity - single exposure	Due to partial or complete lack of data the classification is not possible.		
Specific target organ toxicity - repeated exposure	Due to partial or complete lack of data the classification is not possible.		
Aspiration hazard	Due to partial or complete lack of data the classification is not possible.		
Mixture versus substance information	No information available.		
11.2. Information on other hazar	rds		
Endocrine disrupting properties	This mixture does not contain any substances having endocrine disrupting properties with respect to human health 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.		
Other information	Not available.		
SECTION 12: Ecological i	nformation		
12.1. Toxicity	Harmful to aquatic life with lor	ng lasting effects. Due to partial or complete lack of data the the aquatic environment, acute hazard, is not possible.	
12.2. Persistence and degradability	No data is available on the degradability of any ingredients in the mixture.		
12.3. Bioaccumulative potential			
Material a second Observation at Design			

Partition coefficient n-octanol/water (log Kow) ethylbenzene o-xylene; [1] p-xylene; [2] m-x	ylene; [3] xylene [4]	3,15 3,12 - 3,2
Bioconcentration factor (BCF)	Not available.	
12.4. Mobility in soil	No data available.	
12.5. Results of PBT and vPvB assessment	This mixture does not contair (EC) No 1907/2006, Annex X	n substances assessed to be vPvB / PBT according to Regulation III.
12.6. Endocrine disrupting properties	to the environment as assess	an any substances having endocrine disrupting properties with respect ed in accordance with the criteria set out in Regulations (EC) No 00 and (EU) 2018/605, at a concentration equal to or greater than
12.7. Other adverse effects		ntal effects (e.g. ozone depletion, photochemical ozone creation n, global warming potential) are expected from this component.
12.8. Additional information		
Estonia Dangerous substan	ces in soil Data	
ethylbenzene (CAS 100-4	41-4)	ETHYLBENZENE 0,1 MG/KG ETHYLBENZENE 5 MG/KG ETHYLBENZENE 50 MG/KG
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)		Chemical pesticides (As the total sum of the active substances) 0,5 MG/KG Chemical pesticides (As the total sum of the active substances) 20 MG/KG Chemical pesticides (As the total sum of the active substances) 5 MG/KG

## SECTION 13: Disposal considerations

13.1. Waste treatment methods	
Residual waste	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal methods/information	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Special precautions	Dispose in accordance with all applicable regulations.

### **SECTION 14: Transport information**

AD	R	
	14.1. UN number	UN3082
	14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Resin)
	14.3. Transport hazard class(	(es)
	Class	9
	Subsidiary risk	-
	Label(s)	9
	Hazard No. (ADR)	90
	Tunnel restriction code	E
	14.4. Packing group	III
	14.5. Environmental hazards	
	14.6. Special precautions	Read safety instructions, SDS and emergency procedures before handling.
	for user	
RID		
	14.1. UN number	UN3082
	14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Resin)
	14.3. Transport hazard class	(es)
	Class	9
	Subsidiary risk	_
	Label(s)	9

14.4. Packing group ш 14.5. Environmental hazards No. 14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling. for user ADN UN3082 14.1. UN number Environmentally Hazardous Liquid, N.o.s. (Epoxy Resin) 14.2. UN proper shipping name 14.3. Transport hazard class(es) 9 Class Subsidiary risk 9 Label(s) Ш 14.4. Packing group 14.5. Environmental hazards No. Read safety instructions, SDS and emergency procedures before handling. 14.6. Special precautions for user ΙΑΤΑ 14.1. UN number UN3082 14.2. UN proper shipping Environmentally hazardous substance, liquid, n.o.s. (Epoxy Resin) name 14.3. Transport hazard class(es) 9 Class Subsidiary risk \_ 14.4. Packing group Ш 14.5. Environmental hazards Yes **ERG Code** 9L 14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling. for user Other information Passenger and cargo Allowed with restrictions. aircraft Cargo aircraft only Allowed with restrictions. IMDG UN3082 14.1. UN number Environmentally hazardous substances, liquid, n.o.s. (Epoxy Resin), MARINE POLLUTANT 14.2. UN proper shipping name 14.3. Transport hazard class(es) Class 9 Subsidiary risk -9 Label(s) Ш 14.4. Packing group 14.5. Environmental hazards Marine pollutant Yes Not assigned. EmS 14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling. for user 14.7. Maritime transport in bulk Not established. according to IMO instruments ADN; ADR; IATA; IMDG; RID



### Marine pollutant



IMDG Regulated Marine Pollutant.

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

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

### **EU** regulations

**General information** 

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

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended Not listed.

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

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

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

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

ethylbenzene (CAS 100-41-4)

o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)

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

#### Not listed.

UFI:

Austria: 61D0-Q0F3-F001-EJPQ Belgium: 61D0-Q0F3-F001-EJPQ Bulgaria: 61D0-Q0F3-F001-EJPQ Croatia: 61D0-Q0F3-F001-EJPQ Cyprus: 61D0-Q0F3-F001-EJPQ Czech Republic: 61D0-Q0F3-F001-EJPQ Denmark: 61D0-Q0F3-F001-EJPQ Estonia: 61D0-Q0F3-F001-EJPQ EU: 61D0-Q0F3-F001-EJPQ Finland: 61D0-Q0F3-F001-EJPQ France: 61D0-Q0F3-F001-EJPQ Germany: 61D0-Q0F3-F001-EJPQ Greece: 61D0-Q0F3-F001-EJPQ Hungary: 61D0-Q0F3-F001-EJPQ Iceland: 61D0-Q0F3-F001-EJPQ Ireland: 61D0-Q0F3-F001-EJPQ Italy: 61D0-Q0F3-F001-EJPQ Latvia: 61D0-Q0F3-F001-EJPQ Lithuania: 61D0-Q0F3-F001-EJPQ Luxembourg: 61D0-Q0F3-F001-EJPQ Malta: 61D0-Q0F3-F001-EJPQ Netherlands: 61D0-Q0F3-F001-EJPQ Norway: 61D0-Q0F3-F001-EJPQ Poland: 61D0-Q0F3-F001-EJPQ Portugal: 61D0-Q0F3-F001-EJPQ Romania: 61D0-Q0F3-F001-EJPQ Slovakia: 61D0-Q0F3-F001-EJPQ Slovenia: 61D0-Q0F3-F001-EJPQ Spain: 61D0-Q0F3-F001-EJPQ Sweden: 61D0-Q0F3-F001-EJPQ

#### Authorizations

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

Restrictions on use		
	006, REACH Annex XVII Substa iven for the associated entry r	ances subject to restriction on marketing and use, as amended number should be considered
ethylbenzene (CAS 100-4	41-4)	40
o-xylene; [1] p-xylene; [2]	m-xylene; [3] xylene [4]	75
(CAS 1330-20-7)	a protoction of workers from t	as visite valated to experime to severing some and mutagene at
work, as amended	e protection of workers from th	ne risks related to exposure to carcinogens and mutagens at
Not listed.		
	<del>.</del>	
Other regulations		abelled in accordance with Regulation (EC) 1272/2008 (CLP Safety Data Sheet complies with the requirements of Regulation ded.
National regulations	Directive 94/33/EC on the pro-	old are not allowed to work with this product according to EU tection of young people at work, as amended. Follow national cal agents in accordance with Directive 98/24/EC, as amended.
France regulations		
France INRS Table of Occup	pational Diseases	
Epoxy Resin: Reaction p epichlorohydrin (refer to e (CAS 25068-38-6)	roduct of bisphenol A and epichlorohydrin)	Maladies professionnelles provoquées par les résines époxydiques et leurs constituants 51
ethylbenzene (CAS 100-4	41-4)	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
Product registration number		
Austria	UFI: 61D0-Q0F3-F001-EJPQ	
Belgium	UFI: 61D0-Q0F3-F001-EJPQ	
Czech Republic	UFI: 61D0-Q0F3-F001-EJPQ	
Denmark	UFI: 61D0-Q0F3-F001-EJPQ	
European Union	UFI: 61D0-Q0F3-F001-EJPQ	
Finland	UFI: 61D0-Q0F3-F001-EJPQ	
France	UFI: 61D0-Q0F3-F001-EJPQ	
Germany	UFI: 61D0-Q0F3-F001-EJPQ	
Greece	UFI: 61D0-Q0F3-F001-EJPQ	
Hungary	UFI: 61D0-Q0F3-F001-EJPQ	
Italy	UFI: 61D0-Q0F3-F001-EJPQ	
Netherlands	UFI: 61D0-Q0F3-F001-EJPQ	
Norway	UFI: 61D0-Q0F3-F001-EJPQ	
Poland	UFI: 61D0-Q0F3-F001-EJPQ UFI: 61D0-Q0F3-F001-EJPQ	
Portugal Slovakia	UFI: 61D0-Q0F3-F001-EJPQ	
Slovenia	UFI: 61D0-Q0F3-F001-EJPQ	
Spain	UFI: 61D0-Q0F3-F001-EJPQ	
Sweden	UFI: 61D0-Q0F3-F001-EJPQ	
Switzerland	UFI: 61D0-Q0F3-F001-EJPQ	
15.2. Chemical safety	No Chemical Safety Assessm	ent has been carried out
assessment		
<b>SECTION 16: Other inform</b>	nation	

### List of abbreviations

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
ADR: Agreement concerning the International Carriage of Dangerous Goods by Road.
AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany).
CAS: Chemical Abstract Service.
CEN: European Committee for Standardization.
IATA: International Air Transport Association.
IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk.
IMDG: International Maritime Dangerous Goods.
MAC: Maximum Allowed Concentration.
MARPOL: International Convention for the Prevention of Pollution from Ships.
PBT: Persistent, bioaccumulative and toxic.
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail. STEL: Short term exposure limit.

References Information on evaluation	TLV: Threshold Limit Value. TWA: Time Weighted Average. VLE: Exposure Limit Value. VME: Exposure Average Value. vPvB: Very persistent and very bioaccumulative. Not available. The classification for health and environmental hazards is derived by a combination of calculation
method leading to the classification of mixture	methods and test data, if available.
Full text of any statements, which are not written out in full under sections 2 to 15	<ul> <li>H225 Highly flammable liquid and vapor.</li> <li>H226 Flammable liquid and vapor.</li> <li>H304 May be fatal if swallowed and enters airways.</li> <li>H312 Harmful in contact with skin.</li> <li>H315 Causes skin irritation.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H319 Causes serious eye irritation.</li> <li>H332 Harmful if inhaled.</li> <li>H351 Suspected of causing cancer.</li> <li>H373 May cause damage to organs through prolonged or repeated exposure.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> </ul>
Revision information	Physical & Chemical Properties: Multiple Properties
Training information	Follow training instructions when handling this material.
Disclaimer	ITW Performance Polymers 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. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.