

Sadesa Restricted Substances Policy & MRSL – Chemical Products

SADESA is fully aware of the need to protect our workers and the environment and based on the relevance of this issue, the Company supports limiting the use of substances defined as hazardous in the manufacturing process of its products.

The restriction of use of hazardous substances is also significantly important for our customers and that's why our suppliers are expected to assist us to achieve the objective of full compliance with the restrictions on hazardous substances listed in this Policy and any other products or substances which may be restricted now or in future in all countries we do business.

SADESA is fully committed to work with the ZDHC MRSL program (Zero Discharge of Hazardous Chemicals, Manufacturing Restricted Substances List) version 3.1 Chapter 1 (<https://www.roadmaptozero.com/input#msrl>), which relies on a listing of families of restricted substances for formulations used during the leather manufacturing processes. Acceptable concentration limits for each substance of family of substances is established, which can appear both as impurities or by-products in formulations used at the manufacture facilities.

Suppliers are responsible to ensure that content of each substance listed in the present Policy does not exceed the maximum allowed values.

Sampling and Testing System

To verify compliance with statements herein, each supplier must have a report with the tests carried out annually at a certified laboratory (ISO 17025) for each chemical product delivered at SADESA, the substances to be tested shall be defined on the basis of the characteristics inherent to the synthesis process, formulation and/or eventual input impurities.

SADESA may perform sampling and testing on purchased products.

If any of the required agents is detected/exceeding limits, this would entail a transfer of responsibility upon an eventual claim and the test expenses generated will be debited to the supplier.

Testing Institutes

Testing institutes must be familiar with the corresponding testing methods and the following ones are recommended: Eurofins-BLC, SATRA, TÜV, INTERTEK, IQTC.

Any other institute officially accredited and certified in accordance with DIN/EN 45001 or DIN/ISO/IEC 17025 can also be used for testing.

We kindly ask you to sign the following statement of compliance:

The undersigned, a duly qualified Representative of the company, does hereby certify that all products and their components produced and shipped to SADESA factories comply with the SADESA Policy for Restricted Substances and the ZDHC MRSL and meet all requirements included in the list and does assume the commitment to periodically validate said list on the link www.sadesa.com/sustainability/restrictedsubstances/

We further agree to be held for all costs incurred by SADESA and its customers, should any of the substances contained in our products breach contents of this Policy.

We confirm that we have received, read and fully understand the SADESA Policy for Restricted Substances.

Signature _____

Name _____

Title/Position _____

Company _____

Date _____

Restrictive Substance	CAS	TLV refer to content in leather	Pre-treatment	Test Method
Substances included on IARC's list Group I as per last revision, http://monographs.iarc.fr/ENG/Classification/latest_classif.php		n.d.		
Teratogenic Substances		n.d.		
Mutagenic Substances		n.d.		
Substances with risk of damage to fertility and fetus (Reproductive Toxicity)		n.d.		
Reach list (*) except for those substances included specifically in this RSL which TLV is more demanding http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp		n.d. (*)		
Alkylphenols & Alkylphenols Ethoxylates				
Σ Alkyl phenols (e.g. NP, OP, etc)		n.d.	DIN EN ISO 21084 (2019)	DIN EN ISO 21084 (2019) (detection limit 10ppm)
Σ Alkyl phenols ethoxilates (e.g. NPEO, OPEO, etc)		n.d.	DIN EN ISO 18218-1 (2015)	DIN EN ISO 18218-1 (2015) (detection limit 10ppm)
Azo-amines				
Azo-dyestuffs		20 ppm	---	EN ISO 17234-1 (2020) EN ISO 17234-2 (2011) det. 4-aminoazobenzene
2,4,5-trimethylaniline	137-17-7			
2,4-diaminoanisole	615-05-4			
2,4-dimethylaniline (=2,4-xylidine)	95-68-1			
2,4-toluyldiamine	95-80-7			
2,6-dimethylaniline (=2,6-xylidine)	87-62-7			
2-amino-4nitrotoluene	99-55-8			
2-methoxyaniline (=o-anisidine)	90-04-0			
2-naphthylamine	91-59-8			
3,3',-dimethoxybenzidine	119-90-4			
3,3'-dichlorbenzidine	91-94-1			
3,3'-dimethyl-4,4'-diaminodiphenylmethane	838-88-0			
3,3'-dimethylbenzidine	119-93-7			
4,4'-diaminodiphenylmethane	101-77-9			
4,4'-metylen-bis(2-chloraniline)	101-14-4			
4,4'-oxydianiline	101-80-4			
4,4'-thiodianiline	139-65-1			
4-aminoazobenzene	60-09-3			
4-aminobiphenyl	92-67-1			
4-chloro-0-toluidinium chloride	3165-93-3			
4-methoxy-m-phenylene diamonium sulphate	39156-41-7			

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2-naphthylammonium acetate	553-00-4			
2,4,5-trimethylaniline hydrochloride	21436-97-5			
4-chloro-o-toluidine	95-69-2			
Benzidine	92-87-5			
m-toluidine	108-44-1			
o-aminoazotoluene	97-56-3			
o-toluidine	95-53-4			
p-chloraniline	106-47-8			
p-cresidine	120-71-8			
p-toluidine	106-49-0			
Aniline	62-53-3	5 ppm	Solvent extraction	GC-MS TEST
4,4'-methylenebis(2-chloroaniline) (MOCA)		n.d.	---	GC-MS TEST
Bisphenols				
Bisphenol-A (BPA)	80-05-7	1 ppm		Extraction: 1g simple/20 ml THF, Sonification for 60 minutes at 60 degrees C, analysis with LC/MS
Bisphenol S (BPS)	80-09-1	For informational purposes only.		
Bisphenol F (BPF)	620-92-8			
Bisphenol AF (BPAF)	1478-61-1			
Chlorinated Paraffins				
C10-C13 Chloroalkanes Short Chained Chlorinated paraffins (SCCP)		100 ppm	DIN EN ISO 18219-1 (2021)	DIN EN ISO 18219-1 (2021)
C14-C17 Chloroalkanes Medium Chained Chloroparaffines (MCCP)		1000 ppm	DIN EN ISO 18219-2 (2021)	DIN EN ISO 18219-2 (2021)
Chlorophenols				
Σ Pentachlorophenol (PCP), Tetrachlorophenol (TeCP) and Trichlorophenol (TriCP)		0.05 ppm	DIN EN ISO 50009 (2021)	DIN EN ISO 50009 (2021)
Chlorinated Benzenes & Toluenes				
Chloroorganic Carriers (all chlorobenzenes and all chlorotoluenes)		1 ppm	DIN EN 17137 (2019)	DIN EN 17137 (2019)
Chlorotoluenes				
Dichlorobenzenes				
Dichlorotoluenes				
Hexachlorobenzenes				
Pentachlorobenzenes				
Pentaclorotoluenes				
Tetrachlorobenzenes				
tetrachlorotoluenes				
Trichlorobenzenes				
Trichlorotoluenes				

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Dimethylfumarate				
Dimethyl fumarate (DMFu)	624-49-7	0.1 ppm	DIN EN ISO 16186:2021	
Disperse dyes & Dyestuffs				
Disperse dyes and dyestuffs		30 ppm	---	DIN 54231 (2022) reporting limit 15 ppm each
acid red 26	3761-53-3			
acid red 114	6459-94-5			
basic blue 26	2580-56-5			
	oxalate:			
	2437-28-8			
	18015-76-4/			
basic Green 4	Chloride			
	569-64-2			
	Free			
	10309-95-2			
basic red 9	569-61-9			
basic violet 1	8004-87-3			
basic violet 3	548-62-9			
basic violet 14	632-99-5			
direct black 3	6227-04-9			
direct black 6	-			
direct black 28	6745-67-1			
direct black 38	1937-37-7			
direct blue 6	2602-46-2			
direct blue 15	2429-74-5			
direct brown 95	16071-86-6			
direct red 28	573-58-0			
disperse blue 1	2475-45-8			
disperse blue 3	2475-46-9			
disperse blue 7	3179-90-6			
disperse blue 26	3860-63-7			
disperse blue 35	12222-75-2			
disperse blue 102	12222-97-8			
disperse blue 106	12223-01-7			
disperse blue 124	61951-51-7			
disperse brown 1	23355-64-8			
disperse orange 1	2581-69-3			
disperse orange 3	730-40-5			
disperse orange 11	82-28-0			
disperse orange 37/59/76	12223-33-5*			
disperse orange 149	85136-74-9			
disperse red 1	2872-52-8			
disperse red 11	2872-48-2			
disperse red 17	3179-89-3			

Restrictive Substance	CAS	TLV refer to content in leather	Pre-treatment	Test Method
disperse red 151 disperse yellow 1 disperse yellow 3 disperse yellow 7 disperse yellow 9 disperse yellow 23 disperse yellow 39 disperse yellow 49 disperse yellow 56 solvent blue 4 solvent red 23 solvent violet 8 solvent yellow 2 solvent yellow 14	61968-47-6 119-15-3 2832-40-8 6300-40-8 6373-73-5 6250-22-3 12239-29-2 54824-37-2 54077-16-6 6786-83-0 85-86-9 561-41-1 60-11-7 842-07-9			
* disperse orange 59 and disperse orange 76 are synonymic names for disperse orange 37				
Dyes, Navy Blue				
Component 1: C39H23ClCrN7O12S-2Na	118685-39-9	30 ppm	---	DIN 54231 (2022)
Component 2: C46H30CrN10O20S2-3Na	Not allocated			reporting limit 15 ppm each
Flame Retardants				
Flame Retardants of any type		n.d.	Extraction with THF	GC/MS or LC/MS
Formaldehyde				
Formaldehyde –extractable-	50-00-0	16 ppm	DIN EN ISO 17226-1 (2021) DIN EN ISO 17226-2 (2021)	
Heavy Metals –extractable-				
Antimony (Sb)	7440-36-0	5 ppm	DIN EN ISO 17072-1 (2019)	DIN EN ISO 11885 (2009) or DIN EN ISO 17294-2 (2017)
Arsenic (As)	7440-38-2	0.2 ppm	DIN EN ISO 17072-1 (2019)	DIN EN ISO 11885 (2009) or DIN EN ISO 17294-2 (2017)
Barium (Ba)	7440-39-3	1000 ppm	DIN EN ISO 17072-1 (2019)	DIN EN ISO 11885 (2009) or DIN EN ISO 17294-2 (2017)
Cadmium (Cd)	7440-43-9	0.1 ppm	DIN EN ISO 17072-1 (2019)	DIN EN ISO 11885 (2009) or DIN EN ISO 17294-2 (2017)
Chrome VI (CrVI)	7440-47-3 18540-29-9	3 ppm	DIN EN ISO 17075-1 (2017) or DIN EN ISO 17075-2 (2017) or Aging of the sample is required according to BS ISO 10195 (2018) Method A2 (24h, 80°C, max. 10%rH, usage of a non-ventilated oven)	DIN EN ISO 17075-1 (2017) or DIN EN 17075-2 (2017) or

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Chromium (Cr) - not applicable to tanning or retanning products based on Chrome III salts-	7440-47-3	1 ppm	DIN EN ISO 16711-2 (2016)	DIN EN ISO 11885 (2009) or DIN EN ISO 17294-2 (2017)
Cobalt (Co)	7440-48-4	1 ppm	DIN EN ISO 17072-1 (2019)	DIN EN ISO 11885 (2009) or DIN EN ISO 17294-2 (2017)
Copper (Cu)	7440-50-8	25 ppm	DIN EN ISO 17072-1 (2019)	DIN EN ISO 11885 (2009) or DIN EN ISO 17294-2 (2017)
Lead (Pb)	7439-92-1	0.2 ppm	DIN EN ISO 17072-1 (2019)	DIN EN ISO 11885 (2009) or DIN EN ISO 17294-2 (2017) or
Mercury (Hg)	7439-97-6	0.02 ppm	DIN EN ISO 17072-1 (2019)	DIN EN ISO 12846 (2012) or DIN EN ISO 17294-2 (2017)
Nickel (Ni)	7440-02-0	0.5 ppm	DIN EN ISO 17072-1 (2019)	DIN EN ISO 11885 (2009) or DIN EN ISO 17294-2 (2017)
Selenium (Se)	7782-49-2	500 ppm	DIN EN ISO 17072-1 (2019)	DIN EN ISO 11885 (2009) or DIN EN ISO 17294-2 (2017)
Heavy Metals –total content-				
Arsenic (As)	7440-38-2	10 ppm	DIN EN ISO 17072-2 (2022)	DIN EN ISO 11885 (2009) or DIN EN ISO 17294-2 (2017)
Cadmium (Cd)	7440-43-9	40 ppm	DIN EN ISO 17072-2 (2022)	DIN EN ISO 11885 (2009) or DIN EN ISO 17294-2 (2017) or
Lead (Pb)	7439-92-1	40 ppm	DIN EN ISO 17072-2 (2022)	DIN EN ISO 11885 (2009) or DIN EN ISO 17294-2 (2017) or
Mercury (Hg)	7439-97-6	0.5 ppm	DIN EN ISO 17072-2 (2022)	DIN EN ISO 12846 (2012) or DIN EN ISO 17294-2 (2017)
Heavy Metals –infant & toddlers-				
Heavy Metals –infants/toddlers-				EN71-3:2013 + A1:2014
Aluminium (Al)	7429-90-5	10 ppm		
Antimony (Sb)	7440-36-0	10 ppm		
Arsenic (As)	7440-38-2	10 ppm		
Barium (Ba)	12047-27-7	10 ppm		
Boron (B)	7440-42-8	10 ppm		
Cadmium (Cd)	7440-43-9	n.d.		
Chrome VI	18540-29-9	n.d.		
Chromium	7440-47-3	n.d.		
Cobalt (Co)	7440-48-4	n.d.		
Copper (Cu)	7440-50-8	10 ppm		
Lead (Pb)	7439-92-1	n.d.		
Manganese (Mn)	7439-96-5	10 ppm		
Mercury (Hg)	7439-97-6	n.d.		
Nickel (Ni)	7440-02-0	n.d.		
Selenium (Se)	7782-49-2	10 ppm		
Strontium (Sr)	7440-24-6	10 ppm		
Tin (Sn)	7440-31-5	n.d.		
Zinc (Zn)	7440-66-6	10 ppm		

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N-Nitrosamines				
n-Nitrosamines		n.d. (detection limit 0.5ppm)	---	GB/T 24153-2009 or ISO 19577 (2019)
N-Nitrosopiperidine	100-75-4			
N-Nitrosodiethylamine	55-18-5			
N-Nitrosomorpholine	59-89-2			
N-Nitroso-N-ethylaniline	612-64-6			
N-Nitroso-N-methylaniline	614-00-6			
N-Nitrosodiprophylamine	621-64-7			
N-Nitrosodimethylamine	62-75-9			
N-Nitrosodibutylamine	924-16-3			
N-Nitrosopyrrolidine	930-55-2			
Organotins Compounds				
Dibutyltin (DBT)	1002-53-5	0.2 ppm	ISO/TS 16179 (2012)	
Diocetyl tin (DOT)	15231-44-4	1 ppm	ISO/TS 16179 (2012)	
Monobutyltin (MBT)	787863-54-9	1 ppm	ISO/TS 16179 (2012)	
Monooctyltin (MOT)	94410-07-8	1 ppm	ISO/TS 16179 (2012)	
Tributyltin (TBT)	56573-85-4	0.5 ppm	ISO/TS 16179 (2012)	
Tricyclohexyltin	3091-32-5	1 ppm	ISO/TS 16179 (2012)	
Trimethyltin (TMT)	-	1 ppm	ISO/TS 16179 (2012)	
Triocetyl tin (TOT)	2587-76-0	1 ppm	ISO/TS 16179 (2012)	
Triphenyltin (TPhT)	668-34-8	0.5 ppm	ISO/TS 16179 (2012)	
Tripropyltin	2279-76-7	1 ppm	ISO/TS 16179 (2012)	
Σ Tri substituted organotin compounds		1000 ppm refer to tin content	ISO/TS 16179/2012	
Organotin compounds – Others		0.050 ppm	With methanolic buffer with carbamate	Acc. To ISO 17353 (2005)
o-PP				
o-phenyl-phenol (o-PP) & its salts	90-43-7	50 ppm	DIN 50009 (2021) or DIN EN ISO 13365-1 (2020)	DIN 50009 (2021) or DIN EN ISO 13365-1 (2020)

Restrictive Substance	CAS	TLV refer to content in leather	Pre-treatment	Test Method
Pesticides & Insecticides				
Σ Pesticides & Insecticides		0.5 ppm	Extraction with acetone/hexane	GC-MS
α-Hexachlorcyclohexane	319-84-6			
γ-Hexachlorcyclohexane	608-73-1			
2-(2,4,5-trichlorophenoxy) propionic acid (2,4,5-TP), its salts, and 2-(2,4,5-trichlorophenoxy) propionyl compounds				
2,4,5-T	95-95-4			
2,4,5-trichlorophenoxyacetic acid (2,4-T), its salts and 2,4,5- trichlorophenoxyacetyl compounds				
2,4-D	94-75-7			
Aldicarb	116-06-3			
Aldrine	309-00-2			
Alpha and Beta Endosulfanes	115-29-7			
Carbaryl	63-25-2			
Captafol	2425-06-1			
Chlordane	57-74-9			
Chlordecone (kepone)	143-50-0			
Chlordimeform	6164-98-3			
Chlorfenvinphos	470-90-6			
Chlorobenzilate	510-15-6			
Chlorthalonil	All isomers			
Cyhalothrin	91465-08-6			
DDD	72-54-8			
DDE	72-55-9			
DDT	50-29-3			
Deltamethrin	52918-63-5			
Diazinon	333-41-5			
Dichlofenthion	97-17-6			
Dichlofluanide	1085-98-9			
Dicofol	115-32-2			
Dieldrine	60-57-1			
Dinoseb, its salts & compounds	88-85-7			
Endosulfanes				
Endrine	72-20-8			
Ethylparathione –Parathion-	56-38-2			

Restrictive Substance	CAS	TLV refer to content in leather	Pre-treatment	Test Method
Fenchlorphos	299-84-3			
Fenvalerate	51630-58-1			
Halogenated diarylalkanes				
Halogenated diphenyl methanes				
Halogenated naphthalenes				
HCH's without Lindane				
Heptachlor	76-44-8			
Heptachloroepoxide	1024-57-3			
Hexachlorobenzene	118-74-1			
Isodrine	465-73-6			
Kelevane	4234-79-1			
Kepone	143-50-0			
Lindane	58-89-9			
Malathione	121-75-5			
Methoxychlor	72-43-5			
Methyl Parathion	298-00-0			
Mirex	2385-85-5			
Monocrotophos	6923-22-4			
Monomethyl-dibromo-diphenyl methane	99688-47-8			
Monomethyl-dichloro-diphenyl methane	81167-70-8			
Monomethyl-tetrachloro-diphenyl methane	76253-60-6			
Pentachloroanisole	1825-21-4			
Permethrine	52645-53-1			
Perthane	72-56-0			
Quintozene	82-68-8			
Strobane	8001-50-1			
Telodrin	297-78-9			
Timiperone (DTTB)	57648-21-2			
Tolyfluanide	731-27-1			
Toxaphene	8001-35-2			
Trifluraline	1582-09-8			
β-He xachlorcyclohexane	58-89-9 319-85-7			
Triclosan	3380-34-5	50 ppm	extraction with KOH	DIN EN ISO 13365 (2011)

Restrictive Substance	CAS	TLV refer to content in leather	Pre-treatment	Test Method
Phthalates				
Phthalates All esters of –phthalic acid including but not restricted to:		500 ppm	DIN EN ISO 14389 (2014) or CPSC-CH-C1001-09.4 (2018)	DIN EN ISO 14389 (2014) or CPSC-CH-C1001-09.4 (2018)
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4			
1,2-Benzenedicarboxylic acid, diphenyl ester, branched and linear	84777-06-0			
Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8			
butyl benzyl phthalate (BBP)	85-68-7			
di(2-ethylhexyl)-phthalate (DEHP)	117-81-7			
dibutyl phthalate (DBP)	84-74-2			
di-C6-8-branched alkylphthalates (DIHP)	71888-89-6			
di-C711-branched alkylphthalates (DHNUP)	68515-42-4			
di-cyclo-hexyl phthalate (DCHP)	84-61-7			
di-ethylphthalate (DEP)	84-66-2			
diisobutyl phthalate (DIBP)	84-69-5			
di-isodecyl phthalate (DIDP)	26761-40-0			
di-iso-hexylphthalate (DIHxP)	71850-09-4			
di-isononyl phthalate (DINP)	28553-12-0			
di-iso-octyl phthalate (DIOP)	27554-26-3			
Diisopentylphthalate (DIPP)	605-50-5			
di-methylphthalate	131-11-3			
di-n-hexylphthalate (DHP)	84-75-3			
di-n-octyl phthalate (DNOP)	117-84-0			
di-nonyl phthalate (DNP)	84-76-4			
di-n-propyl phthalate (DPrP)	131-16-8			
di-pentylphthalate (DPP)	131-18-0			
N-pentyl-isopentyl phthalate (NPIPP)	776297-69-9			
Solvents & Residuals				
Cyclohexanone	108-94-1	n.d.	---	GC-MS TEST
Methyl chloride (MC)	74-87-3	n.d.	---	GC-MS TEST
Methylene chloride (MDC)	75-09-2	n.d.	---	GC-MS TEST
2-Methoxyethanol	109-86-4	100 ppm	---	GC-MS TEST
2-Ethoxyethanol	110-80-5	100 ppm	---	GC-MS TEST
2-Ethoxyethyl acetate	111-15-9	100 ppm	---	GC-MS TEST
Dimethyl formamide (DMFa)	68-12-2	n.d.	---	GC-MS TEST
Ethylene glycol monobutyl ether	111-76-2	n.d.	---	GC-MS TEST
Ethyl methyl pyrrolidine	765-79-7	n.d.	---	GC-MS TEST

Restrictive Substance	CAS	TLV refer to content in leather	Pre-treatment	Test Method
n-Hexane	92112-69-1	n.d.	---	GC-MS TEST
n-methyl pyrrolidone (NMP)	872-50-4	n.d.	---	GC-MS TEST
Tetrahydrofuran (THF)		n.d.	---	GC-MS TEST
Volatile Organic Compounds (VOC)				
Solvents (VOC)		1000 ppm	---	GC-MS TEST
1,1,1,2-Tetrachloroethane	630-20-6			
1,1,1-Trichloroethane	71-55-6			
1,1,2,2-Tetrachloroethane	79-34-5			
1,1,2-Trichloroethane	79-00-5			
1,1-Dichloroethylene	75-35-4			
Pentachloroethane	76-01-7			
Tetrachlorethylene	127-18-4			
Tetrachloromethane (carbon tetrachloride)	56-23-5			
Trichloroethylene (TCE)	79-01-6			
Toluene	108-88-3	n.d.	---	GC-MS TEST
Toluene diisocyanate	91-08-7 584-84-9	n.d.	---	GC-MS TEST
Benzene	71-43-2	n.d.	---	GC-MS TEST
Xylene –all isomers-	1330-20-7	n.d.	---	GC-MS TEST
Dimethylacetamide (DMAC)	127-19-5	n.d.	---	GC-MS TEST
Dimethylsulfoxide (DMSO)	67-68-5	n.d.	---	GC-MS TEST
Dioxins and furans		n.d.	---	GC-MS TEST
Benzo(a)pyrene (BaP)	50-32-8	1 ppm	---	ZEK 01.2-08
Butylated Hydroxytoluene (BHT)	128-37-0	n.d.	---	HPLC
Cresol	All isomers 1319-77-3	n.d.	---	GC-MS TEST
Phenol				
Phenol	108-95-2	10 ppm	---	EN 71-9 (2007) (TLV) EN 71-10 (2006) (Method)

Restrictive Substance	CAS	TLV refer to content in leather	Pre-treatment	Test Method
Polychlorinated Biphenyls & Terphenyls				
Polychlorinated Biphenyls (PCB's)	1336-36-3	n.d.	---	DIN 38407, F2 (1993)
Polychlorinated Terphenyls (PCT's)		n.d.	---	DIN 38407, F2 (1993)
Polyvinylchloride (PVC)				
Polyvinylchloride (PVC)	9002-86-2	n.d.	---	Infrared Analysis
Boric Acid				
Boric acid	10043-35-3 11113-50-1	100 ppm	---	GC-MS TEST
Ozone-depleting Substances				
See Regulation (EC) No 1005/2009 for a complete list	Various	5 ppm	---	GC/MS headspace 120° C for 45 minutes
Per-and Polyfluoroalkyl Substances (PFAS)				
All PFAS as measured by total organic fluorine	Various	100 ppm by 2025 50 ppm by 2027	---	EN 14582:2016 or ASTM D7359:2018
Perfluorooctane Sulfonate (PFOS) and related substances	Various	1µg/m ² total	---	EN ISO 23702-1 or EN 17681-1:2022 & 17681-2:2022
Perfluorooctanoic Acid (PFOA) and its salts	Various	25 ppb total		
PFOA-related substances	Various	1000 ppb total		
Perfluorohexane-1-sulphonic acid (PFHxS) and its salts	Various	25 ppb total		
PFHxS-related substances	Various	1000 ppb total		
C9-C14 Perfluorocarboxylic acids (PFCAs) and their salts	Various	25 ppb total		
C9-C14 PFCA-related substances	Various	260ppb total		
Other Perfluoroalkyl Carboxylic Acids (PFCAs)	Various	For information only		

tlv = threshold limit value
 ppm = mg/kg
 n.d. = not detected