



ECOTOXICOLOGICAL REQUIREMENTS FOR CHEMICAL FORMULATES

Dear supplier,

Growing demands from our customers and attention to environmental issues expressed through our policy, make this request for collaboration necessary to provide safe and high quality products, minimizing the impact on men and on the field of production processes.

Tintoria Emiliana Srl, and consequently Star Color Srl, are herewith to communicate:

- The adoption of the MRSL of ZDHC with the additional restrictions of all the PFCs listed in the MRSL

Addendum below.

Version 1.1 of 2015 of ZDHC MRSL is available at the link:

https://www.roadmaptozero.com/fileadmin/pdf/MRSL_v1_1.pdf

The online version can be found at the link:

https://www.roadmaptozero.com/mrsl_online/

-Requests all the suppliers of the chemical formulations sold to Tintoria Emiliana Srl and Star Color Srl to be registered **at level 1, 2 or 3** in the ZDHC gateway by, by 31 December 2018.

In a first transitional phase, certifications recognized by ZDHC will be accepted, such as GOTS, Bluesign or Eco Passport by Oeko Tex, reiterating, however, the request of the registration in the ZDHC gateway by 30 June 2019.

In confirming the relationships of trust and fairness that have always distinguished the relationships between Tintoria Emiliana Srl and Star Color Srl and their suppliers, we wish to underline how the conformity of the chemical formulas to the requirements requested by us will become an essential condition for their evaluation.

You'll find here below, the new e-mail address that we invite you to use, through your certified e-mail address, to send certifications, updates of safety data sheets and technical data sheets, as well as all communications relating to chemical and environmental topics.

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**MRSL ADDENDUM TO ZDHC**

PFC – SUBSTANCES DETAIL	ABBREVIATION	CAS NUMBER	LIMIT
Perfluorooctane Sulfonate and derivatives	PFOS	1763-23-1 & Vari	Total <2 ppm
Perfluorooctanoic acid	PFOA	335-67-1	2 ppm
N-Methyl-Perfluorooctanesulfonamide	N-Me-FOSA	31506-32-8	
N-Ethyl-Perfluorooctanesulfonamide	N-Et-FOSA	4151-50-2	
N-Methyl-Perfluorooctanesulfonamidoethanol	N-Me-FOSE	24448-09-7	
N-Ethyl-Perfluorooctanesulfonamidoethanol	N-Et-FOSE	1691-99-2	
Perfluorooctanesulfonamide	PFOSA	754-91-6	
Perfluorobutanoic acid	PFBA	375-22-4	
Perfluoropentanoic acid	PFPeA	2706-90-3	
Perfluorohexanoic acid	PFHxA	307-24-4	
Perfluoroheptanoic acid	PFHpA	375-85-9	
Perfluorononanoic acid	PFNA	375-95-1	
Perfluorodecanoic acid	PFDA	335-76-2	
Perfluoroundecanoic acid	PFUnA	2058-94-8	
Perfluorododecanoic acid	PFDoA	307-55-1	
Perfluorotridecanoic acid	PFTTrDA	72629-94-8	
Perfluorotetradecanoic acid	PFTeDA	376-06-7	
Perfluorobutane sulfonic acid	PFBS	375-73-5	
Perfluorohexane sulfonic acid	PFHxS	355-46-4	
Perfluoroheptane sulfonic acid	PFHpS	375-92-8	
Perfluorodecane sulfonic acid	PFDS	335-77-3	
Perfluorocyclobutane	c-C4F8	115-25-3	
Perfluoropentane	C5F14	355-42-3	
Perfluoro-1-octanesulfonyl fluoride	PFOSF	307-35-7	
1H,1H,2H,2H-Perfluorooctanesulphonic acid	1H,1H,2H,2H-PFOS	27619-97-2	
1H,1H,2H,2H-Perfluoro-1-decanol	8:2 FTOH	678-39-7	
1H,1H,2H,2H-Perfluoro-1-octanol	6:2 FTOH	647-42-7	
1H,1H,2H,2H-Perfluorodecylacrylate	8:2 FTA	27905-45-9	
1H,1H,2H,2H-Perfluorododecane-1-ol	10:2 FTOH	865-86-1	
1H,1H,2H,2H-Perfluorododecylacrylate	10:2 FTA	17741-60-5	
1H,1H,2H,2H-Perfluorohexane-1-ol	4:2 FTOH	2043-47-2	
1H,1H,2H,2H-Perfluorooctylacrylate	6:2 FTA	17527-29-6	
1H,1H,2H,2H-Perfluorodecanesulfonate	8:2 FTS	39108-34-4	
2H,2H-Perfluorodecanoic acid	H2PFDA	882489-14-7	
2H,2H,3H,3H-Perfluoroundecanoic acid	H4PFUnA	34598-33-9	
7H-Dodecanefluoroheptanoic acid	HPFHpA	1546-95-8	
Perfluoro-3,7-dimethyloctanoic acid	PF-3,7-DMOA	172155-07-06	

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