

# **SYENSCO** **A**ceptable **E**xposure **L**imits **LIST**

**February 2024**



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## **GLOSSARY**

**TWA:** the Time-Weighted Average exposure limit - the maximum average concentration of a chemical in air for a normal 8-hour working day and 40-hour week.

**STEL:** the Short-Term Exposure Limit - the maximum average concentration to which workers can be exposed for a short period (15 minutes).

**CEILING:** the concentration that should not be exceeded at any time.

**SKIN notation:** refers to the potential contribution to the overall exposure by the cutaneous route, including mucous membranes and the eye. Exposure can be either by airborne or direct contact with the substance. This "attention calling" designation suggests appropriate measures be taken to prevent skin absorption.

## SAEL LIST - February 2024

	Substance (year of latest update)	CAS number	SAEL	mg/m <sup>3</sup>	ppm	Notation	Remarks / synonyms
	Aceto-penta-amine cobalt(III) dinitrate (2014)	14854-63-8	TWA	0.035			
	ADV 7004 (2014)	220182-27-4 <i>Obsolete to be checked</i>	TWA	0.0035		SKIN	<i>Fluoropolyether monocarboxylic acid and its salts</i>
	ADV 7004 S (2014)	220207-15-8 <i>Obsolete to be checked</i>	TWA	0.0035		SKIN	
	ADV 7850 / ADV 7800 (2014)	329238-24-6	TWA	0.0035		SKIN	
	ADV 7850 A / ADV 7800 A (2014)	330809-92-2 <i>Obsolete to be checked</i>	TWA	0.0035		SKIN	
	ADV 7850 K / ADV 7800 K (2014)	330809-93-3 <i>Obsolete to be checked</i>	TWA	0.0035		SKIN	
	ADV 7850 S / ADV 7800 S (2014)	330809-80-8 <i>Obsolete to be checked</i>	TWA	0.0035		SKIN	
	Aluminium potassium fluoride (2022)	60304-36-1	TWA	0.14			<i>Reaction mass of potassium aluminium tetrafluoride and dipotassium aluminium pentafluoride, monohydrate (EC number 701-199-3). Respirable fraction.</i>

Aminoethylethanolamine (2021)	111-41-1	TWA	0.74	0.17		<i>AEEA</i>
Bisphenol A (2018)	80-05-7	TWA	1.1		SKIN	
2-Bromopropane (2020)	75-26-3	TWA	1.5	0.30	SKIN	
Calcium chloride (2014)	10043-52-4	TWA	5			Anhydrous form
Calcium chloride dihydrate (2019)	10035-04-8	TWA	6.6			

### SAEL LIST - February 2024 (cont'd)

Substance (year of latest update)	CAS number	SAEL	mg/m <sup>3</sup>	ppm	Notation	Remarks / synonyms
Carbon tetrachloride (2020)	56-23-5	TWA	3.2	0.5	SKIN	
Chlorotrifluoroethylene (2019)	79-38-9	TWA	2.9	0.6		<i>CFC-1113 (CTFE)</i>
Cryolite (2019)	13775-53-6	TWA	0.1			Respirable fraction.
Cyclic-C <sub>6</sub> O <sub>4</sub> ammonium salt (2014)	1190931-27-1	TWA	0.035			
4,4'-Dichlorodiphenyl sulfone (2011)	80-07-9	TWA	0.8			Applicable for dust and vapour form
1,1-Dichloroethylene (2017)	75-35-4	TWA	1.8	0.45	SKIN	<i>Vinylidene chloride (VDC)</i>
1,3-Dichloro-2-propanol (2014)	96-23-1	TWA	0.16	0.030	SKIN	<i>Inovyn</i>
2,2-Dichloro-1,1,1-trifluoroethane (2017)	306-83-2	TWA	31	5		<i>HCFC-123.</i>

1,2-Diiodoperfluoroethane (2018)	354-65-4	Ceiling	14	1		
1,4-Diiodoperfluorobutane (2012)	375-50-8	TWA	0.37	0.02		
1,6-Diiodoperfluorohexane (2014)	375-80-4	TWA	0.050	0.0022		
Dimethyl sulfate (2019)	77-78-1	TWA	0.052	0.01	SKIN	
Diphenyl sulphone (2018)	127-63-9	TWA	0.9			Applicable for dust and vapour form

### SAEL LIST - February 2024 (cont'd)

Substance (year of latest update)	CAS number	SAEL	mg/m <sup>3</sup>	ppm	Notation	Remarks / synonyms
2-Ethylanthraquinone (2016)	84-51-5	TWA	0.47		SKIN	<i>See also SAEL for dermal route</i>
Fluorolink© 7900 (2017)	69991-62-4	TWA	0.0035		SKIN	
Galden LMW (2015)	161075-00-9	TWA	(*)	555		<i>Hexafluoropropene, oxidized, oligomers, reduced, fluorinated</i>
Hexafluoro-1,3-butadiene (2012)	685-63-2	TWA	3.3	0.5	SKIN	<i>Sifren®</i>
Methyl-L-chloropropionate (2015)	73246-45-4	TWA	0.65	0.13	SKIN	
Methylene bis(thiocyanate) (2011)	6317-18-6	TWA	0.01			<i>MBT</i>
Monochlorobenzene (2016)	108-90-7	TWA	23	5	SKIN	

Octafluoroisobutyl methyl ether (2017)	382-26-3	Ceiling	9.5	1		<i>OFIB methyl ether</i>
4,4'-Oxydianiline (2016)	101-80-4	TWA	0.0063		SKIN	<i>ODA</i>
Perfluoromethylvinyl ether (2016)	1187-93-5	TWA	68	10		<i>PMVE</i>
6-(Phthalimido)peroxyhexanoic acid (2019)	128275-31-0	TWA	3			<i>PAP – Eureco.</i>

(\*) To be calculated on basis of the molecular weight of the grade

### SAEL LIST - February 2024 (cont'd)

Substance (year of latest update)	CAS number	SAEL	mg/m <sup>3</sup>	ppm	Notation	Remarks / synonyms
Potassium hydrogen difluoride (2014)	7789-29-9	TWA	3.1			
Pyrocatechol (2021)	120-80-9	TWA	1.5		SKIN	<i>1,2-Dihydroxybenzene</i>
Reaction mass of dimethyl-adipate, glutarate and succinate (2014)	1119-40-0 106-67-0 627-93-0	TWA	8.3		SKIN	<i>RPDE</i>
Sodium carbonate (2018)	497-19-8	TWA	10			
Sodium hydrogensulfide (2017)	16721-80-5	TWA STEL	0.77	1.5		
Sodium percarbonate (2016)	15630-89-4	TWA	5			

Sodium sulfide (2017)	1313-82-2	TWA STEL	1.0	2.0		
Sulfolane (2020)	126-33-0	TWA	1.8	0.37	SKIN	
Sulfur (2014)	7704-34-9	TWA	4			

### SAEL LIST - February 2024 (cont'd)

Substance (year of latest update)	CAS number	SAEL	mg/m <sup>3</sup>	ppm	Notation	Remarks / synonyms
Synthetic amorphous silica (2016)	112926-00-8 112945-52-5 67762-90-7 68611-44-9 68909-20-6	TWA	4			<i>SAS</i> ; includes silica gel, precipitated silica, colloidal silica, surface treated silica and pyrogenic silica
Tetrakis(hydroxymethyl)phosphonium sulphate(2:1) (2017)	55566-30-8	TWA	0.43			<i>THPS</i>
Trifluoroacetic acid (2015)	76-05-1	STEL	16	3.4		<i>TFA</i>
Trifluoroacetic anhydride (2017)	407-25-0					TFAH hydrolyses to TFA : the SAEL-STEL of TFA can be used.

Trifluoroacetyl chloride (2015)	354-32-5	Ceiling	1.6	0.3		<i>TFAc</i> <i>IH</i>
2,2,2-Trifluoroethanol (2015)	75-89-8	TWA	0.25	0.06	SKIN	



## SAEL LIST - February 2024 (cont'd)

### DERMAL EXPOSURE LIMITS

Substance (year of latest update)	CAS number	SAEL mg/worker/day		Notation	Remarks / synonyms
2-Ethylanthraquinone (2016)	84-51-5	Dermal	9.3	SKIN	Exposure via working solution
2-Ethylanthraquinone (2016)	84-51-5	Dermal	230	SKIN	Exposure to pure substance

\* The substance 2-amylanthraquinone contains two isomers in significant quantities: 2-(1,1-dimethylpropyl)anthraquinone (CAS nr. 32588-54-8) and 2-(1,2-dimethylpropyl)anthraquinone (CAS nr. 68892-28-4). The SAEL value of these individual isomers is similar to the SAEL value of 2-amylanthraquinone.