



## SEWS North America EU Chemical Standard

\*This document is based on the EU environmental directives, mainly that of 2000/53/EC and its Annex II.

\*In addition to this EU Chemical Standard SEWS requires all suppliers to comply with the GADSL ([www.gadsl.org](http://www.gadsl.org)).

Substance(s)	Application	Examples of Use	EU Regulation	SEWS NA Compliance Date
Lead and lead compounds	Must be removed except in the exemptions listed below	Color producing ingredient for pigment resins, PVC stabilizer, vulcanizing agent, etc.	7/1/2003	Usage is prohibited
	Impurity: Unintentional inclusion is allowed up to a maximum concentration of 0.1% by weight and per homogeneous material (An unintentional max. of 0.4% wt is allowed in aluminum)	Various uses	Acceptable	Acceptable; (Evaluate industry trends for the 0.4% wt in aluminum)
	Steel for machining purposes and galvanized steel containing up to 0.35% lead by weight	Various uses	Exempted Indefinitely	6/30/06 elimination date for lead content > 0.35 wt%; 7/2005 elimination date for galvanized steel with lead content > 2 wt%
	Aluminum for machining purposes with a lead content up to 1.5% by weight	Various uses	July 2008	Usage is prohibited for materials exceeding 1.5 wt%
	Copper alloy possessing a lead content up to 4% by weight	Terminals, bus bars, brass, etc.	Exempted Indefinitely	Evaluate industry trends
	Stabilizer in protective paints	Protective paints, etc.	7/1/2005	Usage is prohibited
	Solder used in element, die bonding solder, high-temp solder (w/lead content of 85% or greater)	Electronics, power element, etc.	Exempted Indefinitely	Evaluate industry trends
	Solder used for electronic circuit boards and other electric applications	Solder used for welding components to PCB, welding terminals, etc.	Exempted Indefinitely	Develop alternative technology to reduce usage
	Electrical components which contain lead in a glass or ceramic matrix compound except glass in bulbs and glaze of spark plugs	Infrared sensor, G sensor, semiconductor device protector/sealant, etc.	Exempted Indefinitely	Evaluate industry trends
	Light bulb glass and spark plug enamel	Spark plug, light bulb, etc.	1/1/2005	Usage is prohibited
Lead in two-wheelers must be held to or below 100ppm(0.01%). The only exemption being electrical cables incorporated into products	Lead in PVC, such as, tape, tubing, etc.	3/1/2001	Usage is prohibited	

Substance(s)	Application	Examples of Use	EU Regulation	SEWS NA Compliance Date
<b>Hexavalent chromium and hexavalent chromium compounds</b>	Must be removed except in the exemptions listed below	Various uses	7/1/2003	Usage is prohibited
	Impurity: Unintentional inclusion is allowed up to a maximum concentration of 0.1% by weight and per homogeneous material	Various uses	Acceptable	Acceptable
	White and yellow rustproof chromate for non-threaded parts	Collars, clamps, brackets, etc.	7/1/2007	Usage is prohibited
	White and yellow rustproof chromate for threaded parts	Bolts, nuts, screws, washers, etc.	7/1/2007	Usage is prohibited
	Rustproof Dacro coating	Collars, clamps, bolts, nuts, etc.	7/1/2007	Usage is prohibited
	Hexavalent chromium in two-wheelers must be held to or below 100ppm(0.01%).	Various uses	Acceptable	Acceptable
	Black or green rustproof chromate	Collars, clamps, bolts, nuts, etc.	7/1/2007	Usage is prohibited
<b>Mercury and mercury compounds</b>	Must be removed except in the exemptions listed below	Sensors, switches, etc.	7/1/2003	Usage is prohibited
	Mercury in two-wheelers must be held to or below 100ppm(0.01%).	Various uses	Acceptable	Acceptable
	Impurity: Unintentional inclusion is allowed up to a maximum concentration of 0.1% by weight and per homogeneous material	Various uses	Acceptable	Acceptable
	Discharge lamps	Discharge lamps, etc.	Exempted Indefinitely	Evaluate industry trends
	Instrument panel displays	LCD, etc.	Exempted Indefinitely	Evaluate industry trends
<b>Cadmium and cadmium compounds</b>	Must be removed except in the exemptions listed below	Various uses	7/1/2003	Usage is prohibited
	Cadmium in two-wheelers must be held to or below 100ppm(0.01%).	Various uses	Acceptable	Acceptable
	Impurity: Unintentional inclusion is allowed up to a maximum concentration of 0.01% by weight and per homogeneous material	Various uses	Acceptable	Acceptable
<b>Bromine compounds (Specified PBDE's and PBB's)</b>	Inclusion of penta and octa-bromodiphenyl ether exceeding 0.1% wt per homogeneous material.	Flame retardant commonly used in plastics, etc.	8/15/2004	Usage is prohibited
	Inclusion of deca bromodiphenyl ether	Flame retardant commonly used in plastics, etc.	Exempted Indefinitely	<b>1/1/2013</b>
	Inclusion of polybrominated biphenyl (PBB) derivatives exceeding 0.1% wt (base raw material)	Flame retardant commonly used in plastics, etc.	N/A	Evaluate industry trends

Substance(s)	Application	Examples of Use	EU Regulation	SEWS NA Compliance Date
Azoic compounds	Impurity: Unintentional inclusion is allowed up to a maximum concentration of 0.1% by weight and per homogeneous material	Various uses	Acceptable	Acceptable
	Azodyes other than those restricted by 76/769/EEC	Various uses	N/A	Evaluate industry trends
	Azoic Compounds and inclusion of diphenyl ether derivatives exceeding 30ppm	Found in textiles, etc.	9/11/2003	Usage is prohibited
Plasticizers (DBP and DOP)	Inclusion of dibutyl phthalate (DBP) derivatives exceeding 0.1 wt% (base raw materials)	Plasticizers found in elastomers and thermoplastics (Commonly used in tape, rubber seals, PVC, etc.)	N/A	Evaluate industry trends
	Inclusion of dioctyl phthalates (DOP) derivatives exceeding 0.1 wt% (base raw materials)	Plasticizers found in elastomers and thermoplastics (Commonly used in tape, rubber seals, PVC, etc.)	N/A	Evaluate industry trends

Revision History	Hyperlink to Current Document and Archives
10/09/02 -Original Issue	<a href="#">MDS\SEWS SoC-ELV Guide</a>
9/28/05-Revision 1-Simplified to SEWS Applications	
4/6/06-Revision 2-Lead in two wheeler application added	
5/3/06-Revision 3-Wording changed for lead in aluminum and steel.	
10/20/2008- Revision 4- Two-wheeler applications added for others.	