





BONDLINE REACH COMPLIANCE

(Registration, Evaluation, Authorisation and Restriction of Chemicals)

The European REACH Directive (DR/1907/2006EC) has a significant impact on all manufacturers and importers of chemical substances in the European Union. Bondline Electronics Ltd are neither a manufacturer nor importer of chemical substances, it is regarded as a "Downstream user" and will not be pre-registering any substances itself. We have taken the necessary steps to make sure that all of our suppliers are aware of their obligations under REACH.

Since REACH became law in June 2007, we have not received any negative comments from any of our suppliers regarding future registration. If we do receive any such information that might affect any product supplied to your company, we will immediately be in touch. The REACH Directive also includes a list of Substances of Very High Concern (240 SVHC). We have received information regarding these substances from all of our suppliers. We are able to confirm that the majority finished products supplied by Bondline Electronics do not knowingly contain in a concentration above 0.1% weight by weight (w/w) any SVHC in the Candidate list published by European Chemicals Agency (ECHA) or Annex XVII of the REACH regulation (1907/2006/EC) – including list update 23th January 2024

The exceptions to this are

- 1. "Non Resistant" Thermal papers/tags including the name 953, 963 or 983. These grades contain the chemical 4,4'-isopropylidenediphenol (CAS 80-05-7) also known as Bisphenol A (BPA) in a concentration above 0.1% (w/w). A full list of affected grades is listed in the
- 2. Self adhesive products containing the adhesive CWW20. This adhesive contains (NPEO) Nonyl Phenol Ethoxylate (CAS 68412-54-4) in a concentration above 0.1% (w/w). A full list of affected grades is listed in the attached (Appendix)

Please see table below on following pages:

attached (Appendix 1).







The substances added to the SVHC Candidate List effective January 23rd 2024 are shown in the table below:

Substance Name	CAS # (Chemical Abstracts Service)	Where used (examples)
Bis(2-(2- methoxyethoxy)ethyl) ether Also called tetraglyme, Tetraethylene glycol dimethyl ether, and TetraEGDME	143-24-8	 In lithium-ion battery technology; Manufacture of soldering fluxes and solder pastes, of computers, electronics, and optical products; Production of binders for paints, adhesives; Used in paints and adhesive removers; HFC/CFC lubricant in automotive air conditioning, compressors; Printing and reproduction of recorded media, Solvent used in flue gas cleaning systems; Volatile organic compounds (VOC) extractors, from solid wastes; Additive for the fixation of methylated methylolmelamine resins in durable-press cotton and cellulosic fabrics Source: https://echa.europa.eu/documents/10162/ec7ae316-5a0d-0c44-dbc0-e517db9eded0
Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety	3648-18-8 and others	 Widespread use for the manufacture of plastic products, fabrics, textiles, apparel, and leather; Stabilizers and catalysts in the production of plastics, rubber, adhesives, and sealants, coatings and paints, thinners, paint removers, fillers, putties, plasters, modeling clay, metal surface treatment products, nonmetal-surface treatment products, ink and toners, products such as pH regulators, flocculants, precipitants, neutralization agents, leather treatment products, paper, and board treatment products, polishes and wax blends, polymer preparations and compounds, textile dyes and impregnating products as well as washing and cleaning products. Source: https://echa.europa.eu/documents/10162/8326d2d9-ad73-ab30-4ea9-d284bd26dd91

NO.	SUBSTANCE	CAS NO. / EC NO	CLASSIFICATION	POTENTIAL USES
1	1,4-dioxane	204-661-8 / 123-91-1	Requirement ¹	Carc. 1B Ev. C (human health and environment)
2	2,2- bis(bromomethyl)pro pane1,3-diol (BMP) 2,2-dimethylpropan- 1-ol, tribromo derivative/3-bromo- 2,2- bis(bromomethyl)-1- propanol (TBNPA) 2,3-dibromo-1- propanol (2,3-DBPA)	221-967-7 / 3296-90-0 253-057-0 / 36483-57- 5, 1522-92-5 202-480-9 / 96-13-9	Carc. 1B	 In polymer production manufacture of plastics products Reactive flame- retardant intermediate
3	2-(4-tert- butylbenzyl)propional dehyde and its individual stereoisomers	-/-	Repr. 1B	 Fragrance ingredient in cosmetics, personal care products, washing and cleaning products, air care products and biocidal products.
4	4,4'-(1- methylpropylidene)bi sphenol	201-025-1 / 77-40-7	ED (human health and environment)	 Manufacture of phenolic and polycarbonate resins Corrosion inhibitors to coat cans in the food industry
5	Glutaral	203-856-5 / 111-30-8	Respiratory sensitising properties	 Biocide, e.g. preservative for paper Fire extinguishing agents Anti-foaming agents In paint and varnish Leather tanning Use in x-ray film processing
6	Medium-chain chlorinated paraffins (MCCP) (UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17)	-/-	PBT vPvB	 Flame-retardants and plasticizer additives in plastics, rubber, textiles, coatings, paints and varnishes, adhesives and sealants Additives in coolants and lubricants
7	Orthoboric acid, sodium salt	237-560-2 / 13840-56- 7	Repr. 1B	- Corrosion inhibitor
8	Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/or combinations thereof (PDDP)	-/-	Repr. 1B ED (human health and environment)	 Chemical intermediate for lubricant additive materials and of fuel system cleaners Manufacture of rubber products and plastic products Monomer for phenol/formaldehyde resins and ink resins Intermediate for the production of special resins, paints, varnishes and coating resins

1	N- (hydroxymethyl)acrylamide	213- 103- 2	924- 42-5	Carcinogenic; Mutagenic	As a monomer for polymerisation, as a fluoroalkyl acrylate copolymer, and in paints and coatings.
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REACH SVHC list is not a static list and it is updated frequently. Up to 23 January 2024, there are 240 substances/entries on the SVHC candidate list.

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	278-355-8
bis(4-chlorophenyl) sulphone	201-247-9

- 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (EC# 204-327-1, CAS# 119-47-1)
- tris(2-methoxyethoxy)vinylsilane (EC# 213-934-0, CAS# 1067-53-4)

bis(4-chlorophenyl) sulphone

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- (±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC) (4-MBC is a group of substances;
- S-(tricyclo(5.2.1.02,6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate (EC# 401-850-9, CAS# 255881-94-8)

Melamine

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234	diphenyl(2,4,6-trimethylbenzoyl)phosp	hine oxide	278-355-8	7598	0-60-8 14-06-23	3
	233	1,1'-[ethane-1,2-diylbisoxy]bis[2,4,6-tribromobenz	ene]	253-692-3	37853-59 01-23
	232	2,2',6,6'-tetrabromo-4,4'-isopro	pylidenediphenol		201-236-9	79-94-7 01-23
	231	4,4'-sulphonyldiphenol			201-250-5	80-09-1, 01-23
	230	Barium diboron tetraoxide			237-222-4	13701-59 01-23
	229	Bis(2-ethylhexyl) tetrabromoph the individual isomers and/or c			-	- 01-23
	228	Isobutyl 4-hydroxybenzoate			224-208-8	4247-02-3 01-23

Perfluoroheptanoic acid and its salts

2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine

reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-

(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and

201-247-9

80-07-9

14-06-23

203-615-4

473-390-7

108-78-1 01-23

01-23

Substance Name	CAS Number	Reason for Inclusion	Examples of Use
2,4,6-tri-tert- butylphenol	732-26- 3	Toxic for reproduction (Article 57c) Persistent, bioaccumulative and toxic (PBT) (Article 57d)	Manufacture of another substance; formulation of mixtures and in fuel products.
2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol	3147- 75-9	Very persistent and very bioaccumulative (vPvB) (Article 57e)	Air care products, coating products, adhesives and sealants, lubricants and greases, polishes and waxes and washing and cleaning products.
2-(dimethylamino)-2- [(4- methylphenyl)methyl]- 1-[4-(morpholin-4- yl)phenyl]butan-1-one	119344- 86-4	Toxic for reproduction (Article 57c)	Inks and toners, coating products.
Bumetrizole	3896- 11-5	vPvB (Article 57e)	Coating products, adhesives and sealants and washing and cleaning products.
Oligomerisation and alkylation reaction products of 2- phenylpropene and phenol		vPvB (Article 57e)	Adhesives and sealants, coating products, fillers, putties, plasters, modelling clay, inks and toners and polymers.
Dibutyl phthalate (updated entry)	84-74-2	Endocrine disrupting properties (Article 57(f) – environment)	Metal working fluids, washing and cleaning products, laboratory chemicals and polymers.