



Viasat, Inc.
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Carlsbad, CA 92009-1602

Dear

The European "REACH" Regulation Directive 1907/2006 on Evaluation, Authorization and Restriction of Chemical Substances entered into force June 1, 2007. The REACH directive establishes new rules for the management of chemical substances in the European Union. REACH requires increased communication among customers, suppliers and manufacturers about the chemical substances contained in the products they exchange. Viasat, Inc., requests that you provide all substance data for your product (substance weight/article weight (wt/article wt)) that is supplied to Viasat, Inc. If your company does not have this capability, then at a minimum please provide a list of the SVHC (Substances of Very High Concern) substances contained in your product. The current SVHC list can be found in Appendix XIV of Article 33 of Directive 1907/2006 or on the ECHA website at the following link <http://echa.europa.eu/web/guest/candidate-list-table>.

As a Viasat supplier, it is your obligation (per Quality Assurance Purchase Process PR000512 and PR000608) to supply SVHC data in the future, without additional formal requests from Viasat, Inc., as your product content changes and/or as new SVHCs are added to the REACH SVHC list. Please note that it is to your company's advantage to identify all substances contained in your product. The REACH SVHC list may change several times each year. If full substance disclosure is not provided, your company shall be required to continually provide updates when new REACH substances are added to the SVHC list.

If any SVHC is above 0.1% wt/article wt, please provide a Communication Data sheet on how to handle, use, and properly dispose of this product. A Material Safety Data Sheet (MSDS) for the product's safe use is required for all SVHC substances which exceed 0.1% (wt/article wt)* if the chemical substances are designed for intentional release during use or at the time of disposal. Viasat, Inc. prefers this data to be reported in IPC1752-2 format, which can be obtained free of charge from the IPC website at www.ipc.org

If you choose not to use IPC1752-2, then you may use this REACH Data Collection Form to report the data. You may also provide the data in your own standard format. If your company chooses to use this REACH Data Collection Form, then complete pages 2 and 3. Fill in the fields for **Mfg. Part Number**, **Mfg. Description**, **Product and Package Weight**, and **Reach Product Type**. Complete fields for all listed chemical substances, including **wt/twt levels** and **gram weight**. Complete the fields for **Company**, **Title**, **Date**, **E-mail address**, and **Phone Number**, and then use the **Signature Field** to electronically sign the form (using the free Acrobat Reader signature functionality.) Please complete this form by _____ and return to Viasat Inc.

We appreciate your support in meeting both Viasat's and our customers' environmental requirements.

Sincerely,

Name:	Email:
Title:	Phone:
Date:	Fax:

Supplier/Manufacturer: Please follow instructions for completing Table 1 and Table 2. Examples are highlighted in green.

Instruction: Complete Table 1 for All Part number requested by Viasat Inc. See example in Green fields below.

Viasat Part Number (optional field)	Supplier/Mfg Part number (Required field)	Part weight/mass (Required field)	Unit of Measure (Required field)	Unit of Measure type (Required field)	Packaging Weight/mass (Required field)	Packaging Unit of Measure (Required field)	Unit of Measure type (Required field)	List SVHC above 0.1% wt/article wt* for this identified part only (example from Table 1) only complete this field when SVHC are above 0.1%
XYZ123	Widget 34A	24.23	grams	Each	14.16	grams	Each	2,4-dinitrotoluene
XYZ138	Widget 401	30	grams	Each	3	grams	Each	leave blank if none exist



Table 1

Viasat Part Number (optional field)	Supplier/Mfg Part number (Required field)	Part weight/mass (Required field)	Unit of Measure (Required field)	Unit of Measure type (Required field Select most appropriate)	Packaging Weight/mass (Required field)	Packaging Unit of Measure (Required field)	Unit of Measure type (Required field, Select most appropriate)	List SVHC(s) above 0.1% for this identified part only
			Required field	Each		Required field	Each	
			Required field	Each		Required field	Each	
			Required field	Each		Required field	Each	
			Required field	Each		Required field	Each	
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			Required field	Each		Required field	Each	
			Required field	Each		Required field	Each	
			Required field	Each		Required field	Each	



Table 2 REACH SVHC's (Complete for all Supplier/Mfg Part numbers in Table 1.) See example in Green below. If no SVHC's are present, please leave default set as "None detected"

Substance	CAS	Report Levels Over 0.1% (wt/twt) Complete All Fields- Note	Record All Measurable Amounts in Grams (if multiple part numbers input part # and SVHC weight/mass in this column. Separate information by a comma.	Substance Common usage
2,4-dinitrotoluene (Example from page 2)	121-14-2	None detected	Widget 34A- 1.345 grams, Widget 430- 0.002 grams	
28-Oct-2008 15 SVHC				
4,4' -Diaminodiphenylmethane (MDA)	101-77-99	None detected		Curing agent for epoxy resin in PCB preparation of PU, azo dyes in garments
5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	None detected		Cosmetics and soap perfumes
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	None detected		Leather coating, plasticizer in PVC and chlorinated rubber, flame retardant in plastic & textiles
Anthracene	120-12-7	None detected		Source of dyestuff
Benzyl butyl phthalate (BBP)	85-68-7	None detected		Plasticizer for resin, PVC, acrylics
Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	None detected		Plasticizer for resin, PVC, blister
Bis(tributyltin)oxide (TBTO)	56-35-9	None detected		Pesticide, fungicide in paint
Cobalt dichloride	7646-79-9	None detected		Moisture indicator in silica gel, absorbent
Diarsenic pentaoxide	1303-28-2	None detected		Insecticides, weed killer, wood preservatives, colored glass, dyeing and printing
Diarsenic trioxide	1327-53-3	None detected		Weed killers, timber preservatives, manufacture of special glass
Dibutyl phthalate (DBP)	84-74-2	None detected		Plasticizer, cosmetic additive, used in printing inks and adhesives, ectoparasiticide
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified:</	25637-99-4 3194-55-6 134237-50-6 134237-51-7	None detected		Flame retardant used in HIPS and textiles

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	134237-52-8			
Lead hydrogen arsenate	7784-40-9	None detected		Insecticides
Sodium dichromate	7789-12-0 10588-01-9	None detected		Chrome-tanning of leather, corrosion inhibitor in paints, mordant in textile dyeing process
Triethyl arsenate	15606-95-8	None detected		Intermediates for semi- conductor
13-Jan-2010 29 SVHC				
Aluminosilicate Refractory Ceramic Fibres ; are fibres covered by index number 650-017-00-8 in Annex VI part 3, table 3.2 of EC Reg. no 1272/2008 on classification, labeling & packaging of substances & mixtures, and fulfill the two following conditions: a) Al ₂ O ₃ and SiO ₂ are present within the following concentration ranges: Al ₂ O ₃ : 43.5 – 47 % w/w, and SiO ₂ : 49.5 – 53.5 % w/w, or Al ₂ O ₃ : 45.5 – 50.5 % w/w, and SiO ₂ : 48.5 – 54 % w/w, b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm).	Extracted from Index no. 650-017-00-8	None detected		
2,4-Dinitrotoluene	121-14-2	None detected		Manufacture of explosives, polyurethane plastics, organic synthesis, dyes
Anthracene oil	90640-80-5	None detected		Paint, preservative oil, insecticide
Anthracene oil, anthracene-low	90640-82-7	None detected		Paint, preservative oil, insecticide
Anthracene oil, anthracene paste	90640-81-6	None detected		Paint, preservative oil, insecticide
Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	None detected		Paint, preservative oil, insecticide
Anthracene oil, anthracene paste, distn. lights	91995-17-4	None detected		Paint, preservative oil, insecticide
Diisobutyl phthalate	84-69-5	None detected		Plasticizer (nitro cellulose plastic), lacquer manufacture, methyl methacrylate applications

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Lead chromate	7758-97-6	None detected		Used as colorant in painting, printing inks, rubber and plastic
Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	12656-85-8	None detected		Used as additives for painting and coatings, printing inks and in plastics
Lead sulphochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	None detected		Paint, printing ink, plastic
Pitch, coal tar, high temp.	65996-93-2	None detected		Paint, moisture seal
Tris(2-chloroethyl)phosphate	115-96-8	None detected		Flame retardant, plasticizer
<p>Zirconia Aluminosilicate Refractory Ceramic Fibres</p> <p>are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.2 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, and fulfill the two following conditions:</p> <p>a) Al₂O₃, SiO₂ and ZrO₂ are present within the following concentration ranges:</p> <ul style="list-style-type: none"> • Al₂O₃: 35 – 36 % w/w, and • SiO₂: 47.5 – 50 % w/w, and • ZrO₂: 15 - 17 % w/w, <p>b) fibers have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm)</p>	<p>Extracted from Index no. 650-017-00-8</p>	None detected		Used in metallurgy, incineration, petroleum, chinaware production

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30-Mar-2010 30 SVHC				
Acrylamide	79-06-1	None detected		Mainly used for synthesis of polyacrylamides, which are used in various applications such as waste water treatment and paper processing. Minor uses include the preparation of polyacrylamide gels for research purposes and as a grouting agent in civil engineering.
18-Jun-2010 38 SVHC				
Trichloroethylene	79-01-6	None detected		Cleaning and degreasing of metal parts, used in adhesives, chemical intermediates, in leather and textile processing industries and in paints, lacquers and varnishes industry.
Boric acid	10043-35-3 11113-50-1	None detected		In biocides and preservatives, personal care products, disinfectants, preservatives in wood, textile, paper, leather, rubber, polymers, additives in several products like dental products, food, glass, ceramics, rubber fertilizers, flame retardants, paint, industrial fluids, brake fluids, soldering products and film developers
Disodium tetraborate, anhydrous	1303-96-4 1330-43-4 12179-04-3	None detected		In glass and glass fibers, ceramics, detergents and cleaners, metallurgy, and flame retardants.
Tetraboron disodium heptaoxide, hydrate	12267-73-1	None detected		In glass and glass fibers, ceramics, detergents and cleaners, personal care products, industrial fluids, metallurgy adhesives, flame retardants, biocides, and fertilizers.
Potassium dichromate	7778-50-9	None detected		Chrome metal manufacturing, treatment and coating of metals, manufacture of reagents & chemicals, laboratory (analytical agent), cleaning of laboratory glassware, tanning leather, manufacture of textiles,

Substance	CAS	Report Levels Over 0.1% (wt/twt) Complete All Fields- Note	Record All Measurable Amounts in Grams (if multiple part numbers input part # and SVHC weight/mass in this column. Separate information by a comma.	Substance Common usage
				photolithography, wood treatment, & corrosion inhibitor in cooling systems.
Ammonium dichromate	7775-11-3	None detected		Oxidizing agent, laboratory (analytical agent), tanning of leather, manufacture of textiles, manufacture of photosensitive screens (cathode ray tubes), and metal treatment
Potassium chromate	7789-00-6	None detected		Treatment and coating of metals, manufacture of reagents and chemicals, manufacture of textiles, coloring agent in ceramics, tanning & dressing leather, manufacture of inks & pigments, laboratory (analytical reagent), & pyrotechnics
Sodium chromate	7775-11-3	None detected		Steel and alloy industry, leather and textile industry, laboratory (analytical agent), and manufacture of other chromium compounds.
15-Dec-2010 46 SVHC				
2-Methoxyethanol	109-86-4	None detected		Mainly used as solvent, chemical intermediate and additive for fuels
2-Ethoxyethanol	110-80-5	None detected		Mainly used as solvent and chemical intermediate
Chromic acid	7738-94-5	None detected		Mainly used in form of aqueous solutions. Consequently, the uses of these substances are the same as indicated for chromium trioxide. These acids and their oligomers are generated when chromium trioxide is dissolved in water.
Oligomers of chromic acid and dichromic acid	13530-68-2	None detected		Mainly used in form of aqueous solutions. Consequently, the uses of these substances are the same as indicated for chromium trioxide. These acids and their oligomers are generated when chromium trioxide is dissolved in water.

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Cobalt(II) sulphate	10124-43-3	None detected		Mainly used in the production of other chemicals. Further applications may include manufacture of catalysts and driers, surface treatments (such as electroplating), corrosion prevention, production of pigments, decolorizing (in glass, pottery), batteries, animal food, supplement, soil fertilizer, and others
Cobalt(II) dinitrate	10141-05-6	None detected		Mainly used in the production of other chemicals and the manufacture of catalysts. Further applications may include surface treatment and batteries.
Cobalt(II) carbonate	513-79-1	None detected		Mainly used in the manufacture of catalysts. Minor uses may include feed additive, production of other chemicals, production of pigments, and adhesion (in ground coat frit).
Cobalt(II) diacetate	71-48-7	None detected		Mainly used in the manufacture of catalysts. Minor uses may include production of other chemicals, surface treatment, alloys, and production of pigments, dyes, rubber adhesion, and feed additive.
Chromium trioxide	1333-82-0	None detected		Used for metal finishing and as fixing agent in waterborne wood preservatives.
20-June-2011 53 SVHC				
Cobalt dichloride	7646-79-9	None detected		Intermediate in the manufacture of other cobalt compounds, in tire adhesion additives, organic textile dyes, and drying agents for paints. Also used in surface treatment processes, as water treatment / corrosion inhibition chemical, as colorant or for discoloring in the production of inorganic pigments & frits, glass, and ceramic ware, in varistors and magnets, as well as in humidity indicators.
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	None detected		Plasticizer in PVC and in sealants, coatings and potentially printing inks.

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1,2,3-Trichloropropane	96-18-4	None detected		Intermediate in the manufacture of chlorinated solvents and agricultural products. It is also used as a monomer. In the past, it was used as solvent, paint, and varnish remover and as degreasing agent.
1-Methyl-2-pyrrolidone	872-50-4	None detected		Solvent in coatings, cleaning products for electronic equipment manufacture, as well as in semiconductor industry, petrochemical processing, pharmaceuticals, and agrochemicals
Hydrazine	302-01-2 / 7803-57-8	None detected		Intermediate in the manufacture of hydrazine derivatives, as a monomer in polymerizations, as a corrosion inhibitor in water treatment and for metal reduction and refining of chemicals. It is also used as a propellant for aerospace vehicles and as fueled in military (emergency) power units.
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	None detected		Plasticizer in PVC, foam, adhesives and coatings
Strontium chromate	7789-06-2	None detected		Corrosion inhibitor in coating mixtures used in the aeronautic / aerospace sector, in the coil coating sector of steel and aluminum and in the vehicle coating sector
2-Ethoxyethyl acetate	111-15-9	None detected		Solvent in coatings and in the chemical industry, intermediate in the manufacture of cyanoacrylate adhesives
19-DECEMBER-2011 73 SVHC				
Zirconia Aluminosilicate Refractory Ceramic Fibres <i>are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances</i>		None detected		Used for high-temperature insulation, almost exclusively in industrial applications (insulation of industrial furnaces and equipment, equipment for the automotive and aircraft/aerospace industry) and in fire protection (buildings and industrial process equipment).

Substance	CAS	Report Levels Over 0.1% (wt/twt) Complete All Fields- Note	Record All Measurable Amounts in Grams (if multiple part numbers input part # and SVHC weight/mass in this column. Separate information by a comma.	Substance Common usage
<p><i>and mixtures, and fulfil the three following conditions:</i></p> <p><i>a) oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges</i></p> <ul style="list-style-type: none"> • Al₂O₃: 35 – 36 % w/w, and • SiO₂: 47.5 – 50 % w/w, and • ZrO₂: 15 - 17 % w/w, <p><i>b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm).</i></p> <p><i>c) alkaline oxide and alkali earth oxide (Na₂O+K₂O+CaO+MgO+BaO) content less or equal to 18% by weight</i></p>				
Calcium arsenate	7778-44-1	None detected		Used mainly for copper and lead refining; precipitate nickel from the molten metal and to manufacture diarsenic trioxide; active ingredient in germicides and insecticides
Bis(2-methoxyethyl) ether	111-96-6	None detected		Used primarily as a reaction solvent or process chemical in a wide variety of applications. It is also used as solvent for battery electrolytes, and possibly in other products such as sealants, adhesives, fuels and automotive care products. Industrially used in the process regulators for polymerization processes in production of resins, rubbers, & polymers.

Substance	CAS	Report Levels Over 0.1% (wt/twt) Complete All Fields-Note	Record All Measurable Amounts in Grams (if multiple part numbers input part # and SVHC weight/mass in this column. Separate information by a comma.	Substance Common usage
<p>Aluminosilicate Refractory Ceramic Fibres <i>are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions: a) oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm) c) alkaline oxide and alkali earth oxide (Na₂O+K₂O+CaO+MgO+BaO) content less or equal to 18% by weight</i></p>		None detected		Used for high-temperature insulation, almost exclusively in industrial application (insulation of industrial furnaces and equipment, equipment for the automotive and aircraft/aerospace industry) and in fire protection (buildings and industrial process equipment)
Potassium hydroxyoctaoxodizincatedichromate	11103-86-9	None detected		Mainly used in coatings in the aeronautic/aerospace, steel and aluminum coil coating and vehicle coating sectors
Lead dipicrate	6477-64-1	None detected		Explosive like lead diazide and lead styphnate and may be used in low amounts in detonator mixtures together with the two other mentioned lead compounds
N,N-dimethylacetamide	127-19-5	None detected		Used as solvent and manufacture of various substances and production of fibers for clothing; used as reagent, and in products such as industrial coatings, insulation paper, polyimide films, paint strippers and ink removers.
Arsenic acid	7778-39-4	None detected		Mainly used to remove gas bubbles from ceramic glass melt (fining agent) and in the production of laminated printed circuit

Substance	CAS	Report Levels Over 0.1% (wt/twt) Complete All Fields- Note	Record All Measurable Amounts in Grams (if multiple part numbers input part # and SVHC weight/mass in this column. Separate information by a comma.	Substance Common usage
				boards; also used in the manufacture of semiconductors and as laboratory agent.
2-Methoxyaniline; o-Anisidine	90-04-0	None detected		Used in the manufacture of dyes for tattooing and coloration of paper, polymers and aluminum foil.
Trilead diarsenate	3687-31-8	None detected		Present in complex raw manufacture of copper, lead and a range of precious metals; the raw materials is in the metallurgical refinement process transformed to calcium arsenate and diarsenic trioxide
1,2-dichloroethane	107-06-2	None detected		Minor used as solvent in the chemical and pharmaceutical industry, as well as in laboratories and mainly used for manufacture of other substances
Pentazinc chromate octahydroxide	49663-84-5	None detected		Used in coatings in the vehicle coating and aeronautic / aerospace sectors
Formaldehyde, oligomeric reaction products with aniline	25214-70-4	None detected		Manufacture of other substances; minor uses are as ion exchange resins in nuclear power plants, as hardener for epoxy resins e.g. for the production of rolls, pipes and molds, and as well for adhesives
Bis(2-methoxyethyl) phthalate	17-82-8	None detected		Plasticizer in polymeric materials and paints, lacquers and varnishes, including printing inks
4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	None detected		Mainly used in the manufacture of polymer preparations and of ethoxylate surfactants, further used as a component in adhesives, coatings, inks, and rubber articles
Lead diazide, Lead azide	13424-46-9	None detected		Mainly used as initiator or booster in detonators for both civilian and military uses and as initiator in pyrotechnic devices
Phenolphthalein	77-09-8	None detected		Mainly used as laboratory agent (pH indicator solutions), minor uses are in pharmaceutical preparation and in some special applications (e.g. pH-indicator paper, disappearing inks)

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Dichromium tris(chromate	24613-89-6	None detected		Mainly used in mixtures for metal surface treatment in the aeronautic/aerospace, steel and aluminum coating sectors
Lead styphnate	15245-44-0	None detected		A primer for small caliber and rifle ammunition, other common uses are in ammunition pyrotechnics, powder actuated devices and detonators for civilian use
2,2'-dichloro-4,4'-methylenedianiline	01-14-4	None detected		Curing agent in resins and in the production of polymer articles and also for manufacture of other substances; the substance may further be used in construction and arts
18 June 2012 84 SVHC				
α,α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [<i>with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)</i>]	6786-83-0	None detected		Mainly used in the formulation of printing and writing inks, for dyeing paper and in mixtures such as windscreen washing agents
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base	101-61-1	None detected		Used as an intermediate in the manufacture of dyes and other substances
1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β -TGIC)	59653-74-6	None detected		Mainly used as a solder mask ink in the EU. Also used in electrical insulation material, resin molding systems, laminated sheeting, silk screen printing, coatings, tools, adhesives, lining materials, and stabilizers for plastics.
Diboron trioxide	1303-86-2	None detected		Used in a multitude of applications, e.g. in glass and glass fibers, frits, ceramics, flame retardants, catalysts, industrial fluids, metallurgy, nuclear, electrical equipment, adhesives, inks/paints, film developing solutions, detergents and cleaners, reagent chemicals, biocides and insecticides.
1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	None detected		Mainly used as a solvent or as a processing aid in the manufacture and formulation of

Substance	CAS	Report Levels Over 0.1% (wt/twt) Complete All Fields- Note	Record All Measurable Amounts in Grams (if multiple part numbers input part # and SVHC weight/mass in this column. Separate information by a comma.	Substance Common usage
				industrial chemicals. Minor uses in brake fluids and repair of motor vehicles
4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	561-41-1	None detected		Used in the formulation of writing inks and potentially other inks, as well as for dyeing a variety of materials
Lead(II) bis(methanesulfonate)	17570-76-2	None detected		Mainly used in plating processes (both electrolytic and electroless) for electronic components (such as printed circuit boards). The substance seems to also be used for batteries in special applications.
Formamide	75-12-7	None detected		Mainly used as an intermediate in the manufacture of agrochemicals, pharmaceuticals, and industrial chemicals. Minor uses as a solvent, as a laboratory reagent for quality control purposes in forensic laboratories, hospitals, pharmaceutical companies, food and drinks manufacturers and research laboratories. The substance seems to also be used as a plasticizer.
[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	548-62-9	None detected		Used mainly for paper coloring and inks supplied in printer cartridges and ball pens. Further uses include staining of dried plants, use as a marker for increasing the visibility of liquids, staining in microbial and clinical laboratories.
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	None detected		Mainly used as a solvent or as a processing aid in the manufacture and formulation of industrial chemicals, including use as an electrolyte solvent in lithium batteries
[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic	2580-56-5	None detected		Used in the formulation of inks, cleaners, and coatings, as well as for dyeing paper, packaging, textiles, plastic products, and

Substance	CAS	Report Levels Over 0.1% (wt/twt) Complete All Fields- Note	Record All Measurable Amounts in Grams (if multiple part numbers input part # and SVHC weight/mass in this column. Separate information by a comma.	Substance Common usage
Blue 26) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]				other types of articles. It is also used in diagnostic and analytical applications.
1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5- triazinane-2,4,6-trione (TGIC)	2451-62-9	None detected		Mainly used as a hardener in resins and coatings. Also used in inks for the printed circuit board industry, electrical insulation material, resin molding systems, laminated sheeting, silk screen printing coatings, tools, adhesives, lining materials and stabilizers for plastics.
bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	None detected		Used as an intermediate in the manufacture of triphenylmethane dyes and other substances. Further potential uses include use as an additive (photosensitizer) in dyes and pigments, in dry film products and as a process chemical in the production of electronic circuit boards.
19 Dec 2012 138 SVHC				
Pyrochlore, antimony lead yellow	8012-00-8	None detected		Used a pigment, dye, colorant
6-methoxy-m-toluidine (p-cresidine)	120-71-8	None detected		Used as a pigment, dye, colorant
Henicosafuoroundecanoic acid	2058-94-8	None detected		Surfactant / wetting agent
Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3- methylphthalic anhydride [4] [The individual isomers [2], [3] and [4] (including their cis- and trans- stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry]	25550-51-0 19438-60-9 48122-14-1 57110-29-9	None detected		Serve as hardeners in epoxy resins
Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic	85-42-7 13149-00-3	None detected		Mainly used as a hardener for epoxy resins and as intermediate for plasticizers, specialty resins, insect repellents, and rust inhibitors

Substance	CAS	Report Levels Over 0.1% (wt/twt) Complete All Fields- Note	Record All Measurable Amounts in Grams (if multiple part numbers input part # and SVHC weight/mass in this column. Separate information by a comma.	Substance Common usage
anhydride [2], trans-cyclohexane-1,2-dicarboxylic anhydride [3] [The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry]	14166-21-3			
Dibutyltin dichloride (DBTC)	683-18-1	None detected		Used to cure silicon/polyurethane elastomers
Lead bis(tetrafluoroborate)	13814-96-5	None detected		Used in electroplating liquids
Lead dinitrate	10099-74-8	None detected		Manufacturing of matches and explosives; mordant in dyeing and printing on textiles; mordant for staining horn, mother-of-pearl; oxidizer in the dye industry; sensitizer in photography; process engraving
Silicic acid, lead salt	11120-22-2	None detected		Mainly used as raw material in making lead glass for electron vacuum tube, optical glass, glass shell, material of lead glassed
4-Aminoazobenzene	60-09-3	None detected		Used in the dyeing process; manufacturing of diazo dyes and indulines
Lead titanium zirconium oxide	12626-81-2	None detected		Used as piezoelectric ceramic material
Lead monoxide (lead oxide)	1317-36-8	None detected		In ointments, plaster; preparing solution of lead substrate; glazing pottery; glass flux for painting on porcelain and glass; lead glass; varnishes; with glycol as a metal cement; producing iridescent colors on brass and bronze; coloring sulfur-containing substance; pigment for rubber
o-Toluidine	95-53-4	None detected		Used in the manufacture of dye and organic chemicals; making color fast to acids; reagent for lignin
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	None detected		Additive used in adhesives
Silicic acid (H ₂ SiO ₅), barium salt (1:1), lead-doped [with lead (Pb) content above the	68784-75-8	None detected		

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applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008]				
Trilead bis(carbonate)dihydroxide	1319-46-6	None detected		Used as a pigment, curing agent, in temperature sensitive inks, as a grease component, as a heat stabilizer
Furan	110-00-9	None detected		Used in organic syntheses
N,N-dimethylformamide	68-12-2	None detected		Solvent for liquid and gases. Used in the synthesis of organic compounds. Solvent for Orlon and polyacrylic fibers; used as solvent where slow evaporation rate is needed; termed as the universal organic solvent
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	-	None detected		Most used as an intermediate for the production of resins, non-ionic surfactants and rubber additives. It is also used for the manufacturing of antioxidants, fuel oil stabilizers, adhesives, dyestuffs, fungicides, bactericides, and for vulcanizing synthetic rubber.
4-Nonylphenol, branched and linear[substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	-	None detected		
4,4'-methylenedi-o-toluidine	838-88-0	None detected		Pigment, dye, colorant
Diethyl sulphate	64-67-5	None detected		Used as an ethylating agent
Dimethyl sulphate	77-78-1	None detected		Methylating agent for the manufacture of organic chemicals

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Lead oxide sulfate	12036-76-9	None detected		Mainly used as stabilizer for non-transparent or translucent PVC products
Lead titanium trioxide	12060-00-3	None detected		Used as a pigment in paints, ceramic electrical insulators, piezoelectric transducers, oxidation catalysts
Acetic acid, lead salt, basic	51404-69-4	None detected		Lead (II) acetate is used as a mordant in textile printing and dyeing and as a drier in paints and varnishes. Lead (IV) acetate is used as a general reagent for the introduction of lead into organolead compounds.
[Phthalato(2-)]dioxotrilead	69011-06-9	None detected		Heat stabilizer for PVC
Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	None detected		Brominated flame retardant
N-methylacetamide	79-16-3	None detected		Used as pesticide, medicine and other organic synthesis intermediates
Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	None detected		Herbicide; insecticide; miticide
1,2-Diethoxyethane	629-14-1	None detected		Used in the manufacture of unsaturated polyester resins, polyurethanes and plasticizers
Tetralead trioxide sulphate	12202-17-4	None detected		Key intermediates in lead-acid battery production
N-pentyl-isopentylphthalate	776297-69-9	None detected		Used as surfactant and plasticizer
Dioxobis(stearato)trilead	12578-12-0	None detected		Used as a heat stabilizer
Tetraethyllead	78-00-2	None detected		Used as a fuel stabilizer additive to prevent "knocking" in motors
Pentalead tetraoxide sulphate	12065-90-6	None detected		Intermediates in lead-acid battery production
Pentacosfluorotridecanoic acid	72629-94-8	None detected		Surfactant / wetting agent
Tricosfluorododecanoic acid	307-55-1	None detected		Surfactant / wetting agent
Heptacosfluorotetradecanoic acid	376-06-7	None detected		Surfactant / wetting agent
1-bromopropane (n-propyl bromide)	106-94-5	None detected		Used as a degreasing agent and in spray adhesives
Methoxyacetic acid	625-45-6	None detected		MAA, the toxic metabolite of the widely used industrial solvent ethylene glycol monomethyl

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				ether (EGME) also a major metabolite of ester phthalates that are commonly used in industry as gelling viscosity and stabilizer reagents
4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	None detected		Used in producing TDI, vulcanization dye, alkaline dyes and dispersal dyes, pharmaceutical intermediates and other synthesis intermediates
Methyloxirane (Propylene oxide)	75-56-9	None detected		Chemical intermediate in the preparation of polyethers to form polyurethanes. In preparations of lubricants, surfactants, and oils demulsifiers.
Trilead dioxide phosphonate	12141-20-7	None detected		Used as a plastics stabilizer
o-aminoazotoluene	97-56-3	None detected		Coloring oils, fats, and waxes; manufacturing of pigments; chemical intermediate for the production of dyes
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	None detected		Plasticizer
4,4'-oxydianiline and its salts	101-80-4	None detected		Primarily used in the production of polyimide and poly(ester)imide resins
Orange lead (lead tetroxide)	1314-41-6	None detected		Plasters and ointments; paints and varnishes; manufacture of colorless glass
Biphenyl-4-ylamine	92-67-1	None detected		Rubber antioxidant; dye intermediate
Diisopentylphthalate	605-50-5	None detected		Plasticizer, solvent, and fragrance carrier
Fatty acids, C16-18, lead salts	91031-62-8	None detected		Primarily of interest as a lubricant in PVC compounds and limited use as a heat stabilizer in combination with other heat stabilizers
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	None detected		Use as a blowing and foaming agent for plastics; as a maturing and bleaching agent in flour.
Sulfurous acid, lead salt, dibasic	62229-08-7	None detected		
Lead cyanamidate	20837-86-9	None detected		
20 Jun 2013 144 SVHC				

Substance	CAS	Report Levels Over 0.1% (wt/twt) Complete All Fields- Note	Record All Measurable Amounts in Grams (if multiple part numbers input part # and SVHC weight/mass in this column. Separate information by a comma.	Substance Common usage
Cadmium	7440-43-9	None detected		Used in many kinds of solder and bearing alloys; in electroplating to resist corrosion; stabilizer and rechargeable (Ni-Cd) nickel cadmium batteries; used as a pigment, as a heat stabilizer, in NiCd Batteries, in alloys, as a plating for plugs, contacts and switches, and in optical glass and filters
Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	None detected		An ammonium salt used as plasticizer; used as a processing aid in the manufacture of fluoropolymers to produce items such as non-stick surfaces on cookware, protective finishes on carpets, and clothing; used coat food packaging. Also may be found in PVDF plastic up to 1% w/w of the plastic
Pentadecafluorooctanoic acid (PFOA)	335-67-1	None detected		Used as an emulsifier for the emulsion polymerization of fluoropolymers such as polytetrafluoroethylene (PTFE, or Teflon), polyvinylidene fluoride, and fluoroelastomers PFOA may be found in PVDF plastic up to 1% w/w of the plastic.
Dipentyl phthalate (DPP)	131-18-0	None detected		Used as a plasticizer in PVC and other plastic polymer
4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]		None detected		Widely used as surfactants like industrial cleaners and emulsifier in paints and lacquers, adhesives and pesticides; used in the production of synthetics, stabilizers, as well as phenolic and epoxide-resins; nonylphenol ethoxylates are found in concentrations up to 10% w/w in specialist coatings based on acrylic esters and specialist paints based on polyvinyl acetates (PVA). If the coating is applied to a very thin light structure, for example aluminum foils, then this could result in >.1% w/w of nonylphenol ethoxylates in the article

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Cadmium oxide	1306-19-0	None detected		Used as a heat stabilizer, in high quality power switching contacts and relays, and as photoelectric applications used as transparent conductive material in the form of thin films; commercial electroplating of cadmium is done by electrode position from cyanide baths
16 Dec 2013 151 SVHC				
Lead di(acetate)	301-04-2	None detected		Used as coatings and paints, thinners, and paint removers; fillers, putties, and modeling clay; also used in cosmetics such as lipsticks; used as a mordant in textile printing and dyeing; as a drier in paints and varnishes
Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	None detected		Direct Red 28, also known as congo red is used to color plastics, textiles, paper and PVA
Trixylyl phosphate	25155-23-1	None detected		Trixylyl phosphate (TXP) is a flame retardant which can be found in a range of plastics including PVC, polyurethane, TPE, vinylite, cellulosic resin and natural and synthetic rubber.
Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	None detected		Imidazolidine-2-thione is used as a catalyst in some acrylic adhesive glues which may be used in adhesive tapes (for example, double sided adhesive tapes which may be used to hold the back-light in place in mobile phones)
Dihexyl phthalate	84-75-3	None detected		Dihexyl phthalate (DnHP) is used as a plasticizer in PVC and other plastic polymers.
Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo]][1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	None detected		Direct Black 38 is used to color plastics, cellulose, silk, nylon, acetate, wood, and leather.

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Cadmium sulphide	1306-23-6	None detected		CdS is used as pigment in plastics, glass, and ceramics; and is found in photoelectric devices including photoresistors, solar cells and piezoelectric transducers.
16 June 2014 155 SVHC				
Cadmium chloride	10108-64-2	None detected		Cadmium chloride is used for the preparation of cadmium sulfide, used as "Cadmium Yellow", a brilliant-yellow stable inorganic pigment
Sodium peroxometaborate	7632-04-4	None detected		Serves as a source of active oxygen and used as a bleaching agent in many detergents, laundry detergents, cleaning products, laundry bleaches, tooth bleaching formulas. It has antiseptic properties and can act as a disinfectant.
Sodium perborate; perboric acid, sodium salt		None detected		Serves as a source of active oxygen and used as a bleaching agent in many detergents, laundry detergents, cleaning products, laundry bleaches, tooth bleaching formulas. It has antiseptic properties and can act as a disinfectant.
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	None detected		Plasticizer used to make plastisols that are used in the manufacture of automobile parts (air filters, battery covers) and dip-molded products (tool handles, dishwasher baskets). Also used to plasticize PVC utilized in the manufacture of flooring, canvas tarps, notebook covers, toys, and vinyl gloves among others.
17 DECEMBER 2014 161 SVHC				
Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	None detected		Plasticizer (PVC products), hydraulic fluid, dielectric fluid in capacitors

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2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	None detected		The reaction mass of DOTE and MOTE is added to PVC plastic to make it more stable to heating. The most commonly used reaction mass contains 70% DOTE and 30% MOTE and the addition rate in PVC is typically between 1 and 2.5%
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	None detected		UV protection agent for PVC and can also be used for PET, PC, PA ABS and other polymers. Typical addition rates are .2-.5% w/w of the polymer depending on the polymer and the desired level of UV protection.
reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	-	None detected		The reaction mass of DOTE and MOTE is added to PVC plastic to make it more stable to heating. The most commonly used reaction mass contains 70% DOTE and 30% MOTE and the addition rate in PVC is typically between 1 and 2.5%.
Cadmium fluoride	7790-79-6	None detected		Found in articles (e.g. parts, components, sub-assemblies etc) which are supplied for use in hardware products and electrical and electronic equipment
Cadmium sulphate	10124-36-4 And 31119-53-6	None detected		Found in articles (e.g. parts, components, sub-assemblies etc) which are supplied for use in hardware products and electrical and electronic equipment
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	None detected		UV-328 is used as a UV protection agent in plastics, rubber and polyurethane. Typical addition rates are .1-1% w/w of the polymer, depending on the polymer and the desired level of UV protection.
15 JUNE 2015 163 SVHC				

Substance	CAS	Report Levels Over 0.1% (wt/twt) Complete All Fields- Note	Record All Measurable Amounts in Grams (if multiple part numbers input part # and SVHC weight/mass in this column. Separate information by a comma.	Substance Common usage
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5) 1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters EC no.: 271-094-0 CAS no.: 68515-51-5 1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters EC no.: 272-013-1 CAS no.: 68648-93-1	EC No. 201-559-5 68515-51-5 68648-93-1	None detected		The phthalates are used as plasticizers in PVC and other plastic polymers. The phthalates are included in the REACH Candidate List because they are chemically very similar to dihexyl phthalate and may be used as substitutes for dihexyl phthalate.
5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] covering any of the individual stereoisomers of [1] and [2] or any combination thereof show/hide 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane 5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane		None detected		The primary example listed by ECHA of this substance group is the product sold under the name "karanal." ECHA indicates that the main use, according to public information, is as a fragrance.
17 DECEMBER 2015 168 SVHC				
1,3-propanesultone	1120-71-4	None detected		Lithium ion batteries – electrolyte fluid
2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	None detected		UV-protection agents in coatings, rubber, plastics, and cosmetics
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	None detected		UV-protection agents in coatings, rubber, plastics, and cosmetics

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Nitrobenzene	98-95-3	None detected		Manufacture of other substances (aniline)
Perfluorononan-1-oic-acid and its sodium and ammonium salts show/hide Ammonium salts of perfluorononan-1-oic- acid	4149-60-4	None detected		Processing aid for fluoropolymer manufacture, lubricating oil additive for fire extinguishers, cleaning agent, textile antifouling finishing agent, polishing surfactant, waterproofing agents and in liquid crystal display panels
Perfluorononan-1-oic-acid EC no.: 206- 801-3	375-95-1			
Sodium salts of perfluorononan-1-oic- acid	21049-39-8			
20 JUNE 2016 169 SVHC				
Benzo(def)chrysene(benzo(a)pyrene)	50-32-8	None detected		Coal tar, residential wood burning, fuel exhaust, could be formed in manufacturing including asphalt production
12 JANUARY 2017 173 SVHC				
p-(1,1-dimethylpropyl)phenol	80-46-6	None detected		Intermediate used to make UV stabilizers, phenolic and polycarbonate resins and lacquers, germicide in cleaning solutions, adhesives, paints, some rubber curing uses for a derivative
Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	335-76-2	None detected		Waterproofing and plasticizer, lubricant, wetting agent, surfactant, firefighting foam, and corrosion inhibitor
Nonadecafluorodecanoic acid				
Ammonium nonadecafluorodecanoate				

Substance	CAS	Report Levels Over 0.1% (wt/twt) Complete All Fields- Note	Record All Measurable Amounts in Grams (if multiple part numbers input part # and SVHC weight/mass in this column. Separate information by a comma.	Substance Common usage
Decanoic acid, nonadecafluoro-, sodium salt	3830-45-3			
4-Heptylphenol, branched and linear <i>substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof</i>		None detected		Additive in lubricants; mostly used as a process chemical for making surfactants, resins, etc.
4,4'-isopropylidenediphenol (bisphenol A; BPA)	80-05-7	None detected		Manufacture of polycarbonate, as a hardener for epoxy resins, as an anti-oxidant for processing PVC and in thermal paper production.
07 JULY 2017 174 SVHC				
Perfluorohexane-1-sulphonic acid and its salts PFHxS		None detected		Used in plasticisers, lubricants, surfactants, wetting agents, corrosion inhibitors and firefighting foams
15 JANUARY 2018 181 SVHC				
Chrysene	218-01-9	None detected		Normally not produced intentionally but rather occurs as a constituent or impurity in other substances.
Benz[a]anthracene	56-55-3	None detected		Normally not produced intentionally but rather occurs as a constituent or impurity in other substances.

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Cadmium nitrate	10325-94-7	None detected		Used for the manufacture of glass, porcelain and ceramic products and in laboratory chemicals
Cadmium hydroxide	21041-95-2	None detected		Used for the manufacture of electrical, electronic and optical equipment and in laboratory chemicals.
Cadmium carbonate	513-78-0	None detected		Used as a pH regulator and in water treatment products, laboratory chemicals, cosmetics and personal care products.
1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10] octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]		None detected		Used as a non-plasticising flame retardant, used in adhesives and sealants and in binding agents.
Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]		None detected		Used as a lubricant additive in lubricants and greases.
27 JUNE 2018 191 SVHC				
Benzene-1,2,4-tricarboxylic acid 1,2 anhydride	552-30-7	None detected		Used in polymer materials

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Benzo[ghi]perylene	191-24-2	None detected		Used in dyes, plastics, pesticides, explosives and drugs
Decamethylcyclopentasiloxane	541-02-6	None detected		Used in cosmetics and personal care, polishes and waxes, washing and cleaning products, pharmaceuticals and textile treatment products and dyes
Dicyclohexyl phthalate	84-61-7	None detected		Used in polymer materials
Disodium octaborate	12008-41-2	None detected		Used as a pH regulator and in water treatment products, biocides, coating products, inks and toners and welding & soldering products
Dodecamethylcyclohexasiloxane	540-97-6	None detected		Used in laboratory chemicals, washing and cleaning products and polishes and waxes
Ethylenediamine	107-15-3	None detected		Used as a pH regulator and in water treatment products, adhesives and sealants, coating products, heat transfer fluids and hydraulic fluids.
Lead	7439-92-1	None detected		Used in welding and soldering products, metals, metal surface treatment products, polymers and heat transfer fluids

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Octamethylcyclotetrasiloxane	556-67-2	None detected		Used in lab chemicals, semiconductors and non-metal-surface treatment products.
Terphenyl, hydrogenated	61788-32-7	None detected		Used in adhesives and sealants, fillers, coating products putties, plasters, modelling clay, heat transfer fluids and polymers
15 January 2019 197 SVHC				
Benzo[k]fluoranthene	207-08-9	None detected		Unlikely to be found in mechanical or electrical products. Benzo[k]fluoranthene, Fluoranthene, Phenanthrene and Pyrene are Polycyclic Aromatic Hydrocarbons (PAH) which may be present as impurities in extender oils which may be used as plasticizers in rubber and plastics and in potting materials. Benzo[k]fluoranthene, Fluoranthene, Phenanthrene and Pyrene may also be present as impurities in black colourants (e.g. Carbon Black) which may be used in rubber and plastics.
Fluoranthene	206-44-0 93951-69-0	None detected		
Phenanthrene	85-01-8	None detected		
Pyrene	129-00-0 1718-52-1	None detected		
2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	None detected		Unlikely to be found in mechanical or electrical products. 2,2-bis(4'-hydroxyphenyl)-4-methylpentane is also known as BisP-MIBK and may

Substance	CAS	Report Levels Over 0.1% (wt/twt) Complete All Fields- Note	Record All Measurable Amounts in Grams (if multiple part numbers input part # and SVHC weight/mass in this column. Separate information by a comma.	Substance Common usage
				be used as an alternative to Bisphenol A (BPA). As such, BisP-MIBK may be found in thermal paper applications up to 3% by weight of the paper. BisP-MIBK may also be used as an ingredient in the manufacture of specialist polycarbonate plastic and specialist epoxy resins, however the residual level of BisP-MIBK in the manufacture of these specialist materials is below 0.01%.
1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one 3-benzylidene camphor; 3-BC	15087-24-8	None detected		Not normally found in Electronic and Electrical products. UV protection found in sunscreen lotions.
16 July 2019 201 SVHC				
2-methoxyethyl acetate	110-49-6	None detected		Solvent use for dissolving polyester and short oil alkyd resins. It has also uses in coatings, dyes, insecticides, soaps, cosmetics, resins, waxes, oils, textile printing, photographic film, dopes, and automobile lacquers to reduce evaporation and to part a high

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				gloss. Other uses include, as a solvent for nitro-cellulose and can be used for similar applications as ethyl glycol.
Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)		None detected		Primarily used as an antioxidant to stabilize polymers. Used in plastics product manufacturing and plastics packaging material and unlaminated film and sheet manufacturing as a stabilizer, resin and synthetic rubber manufacturing, and tire manufacturing.
2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)		None detected		Processing aid in the production of fluorinated polymers.
4-tert-butylphenol	98-54-4	None detected		Used in coating products, polymers, adhesives, sealants and for the synthesis of other substances. Other uses of this substance may include: machine wash liquids/detergents, automotive care products, paints, fragrances and air fresheners.
16 January 2020 205 SVHC				

Substance	CAS	Report Levels Over 0.1% (wt/twt) Complete All Fields- Note	Record All Measurable Amounts in Grams (if multiple part numbers input part # and SVHC weight/mass in this column. Separate information by a comma.	Substance Common usage
Perfluorobutane sulfonic acid (PFBS) and its salts		None detected		Used primarily as a surfactant in industrial processes and in water-resistant or stain-resistant coatings on consumer products such as fabrics, carpets, and paper. It can also be used in flame retardants or metal plating.
Diisohexyl phthalate	71850-09-4	None detected		Used as an additive in sealants and as a plasticizer in plastics.
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	None detected		Used as a photo initiator in polymer production, in the manufacture of inks and surface coatings, and in solder masks.
2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	None detected		Used as a photo initiator in polymer production, in the manufacture of inks and surface coatings, and in solder masks.
25 June 2020 209 SVHC				
Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4	None detected		Used in adhesives, sealants, and paints and coatings. Other uses includes machine wash liquids/detergents, automotive care products, paints, fragrances and air fresheners.
Butyl 4-hydroxybenzoate	94-26-8	None detected		Used in cosmetic, personal care, and pharmaceutical products.

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2-methylimidazole	693-98-1	None detected		It is likely used as a precursor to a few antibiotics and other drugs. ECHA states it has no public data indicating where this substance is used in chemical products.
1-vinylimidazole	1072-63-5	None detected		It is likely used in inks, adhesives for coatings, and lacquers. ECHA states it has no public data indicating where this substance is used in chemical products.



Supplier/Manufacturer- Complete section below

Are SVHC substances added or used during the manufacturing process to the product that leaves an SVHC substance on the product or article greater than 0.1% wt/article wt.? Required field

If “Yes” please explain and make sure substances and materials are identified on the SVHC list above:

By inputting the information below is verification that due diligence has been performed to ensure the accuracy of the contents of substances in products provided to Viasat Inc. Furthermore, this hereby assures that SVHCs (Substances of Very High Concern) are sufficiently identified, documented, and communicated per REACH Regulation (EC) No 1907/2006 based on the information from internal and supply chain sources.

Name:	Date:
Company:	Email:
Title:	Phone:

NOTES (deemed relevant to Product(s) or explanation to clarify information above: