

Effective Date: April 14, 2010

Revised Date: August 2, 2024

Last Reviewed: August 2, 2024

Registration, Evaluation, and Authorization of Chemicals (REACH) – SVHC Disclosure

EU REACH (EC 1907/2006) is the regulatory system for chemicals management and their safe use in the European Union (EU). In accordance with the requirements of REACH Article 33, this document is to inform you of the presence of the following “substances of very high concern” (SVHC) as defined by REACH, contained in articles in concentrations above 0.1% weight by weight (w/w).

Lenovo Intelligent Devices Group (IDG):

| Product Type | Article | Substance | CAS no. |
|------------------------|--|--|------------|
| | Glass in camera module, and glass in chip resistor on PCB | Diboron trioxide | 1303-86-2 |
| ➤ Notebook | External plastic in keyboard and mechanical part | 1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC) | 2451-62-9 |
| ➤ Desktop | Glass in LCD, touch panel and resistor | Boric acid | 10043-35-3 |
| ➤ Workstation | Mixture between electronic components in SSD | Hexahydromethylphthalic anhydride | 25550-51-0 |
| ➤ AIO | Electrolyte in battery | 1,3-propanesultone | 1120-71-4 |
| ➤ Monitor | Chip in integrated circuit and HDD | 4,4'-isopropylidenediphenol(BPA) | 80-05-7 |
| ➤ Accessory | Film on flexible printed circuit | 1,2-dimethoxyethane, ethylene glycol dimethyl ether (EGDME) | 110-71-4 |
| ➤ Lenovo branded phone | Varistor of power supply, Inductor of SSD and ODD | Benzene-1,2,4-tricarboxylic acid 1,2 anhydride | 552-30-7 |
| ➤ Tablet | Mechanical metal alloys and solder alloys | Lead | 7439-92-1 |
| ➤ Other smart devices | Film or rubber in keyboard, label adhesive | Octamethylcyclotetrasiloxane | 556-67-2 |
| | Ceramic element, glass element | Lead titanium trioxide | 12060-00-3 |
| | Sensor in hard drive, resonator in ODD | Lead titanium zirconium oxide | 12626-81-2 |
| | PCB solder mask or ink used in storage, power supply and keyboard | 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one | 71868-10-5 |
| | Epoxy colophony used in power supply, ink used in keyboard | 2-methylimidazole | 693-98-1 |
| | PCB Solder used in keyboard, panel, speaker and camera | Bis(2-(2-methoxyethoxy)ethyl)ether | 143-24-8 |
| | Cable, glue in antenna | tris(2-methoxyethoxy) vinylsilane | 1067-53-4 |
| | Silica gel in ODD, plastic or rubber in mechanical parts | 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol | 119-47-1 |
| | PCB solder mask or ink of fan, adapter and power supply; cable housing; sound absorbing cotton | Melamine | 108-78-1 |

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|--|--|--|-------------|
| | PWB of fan, photosensitive ink of PCB, cable in battery pack | 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol | 79-94-7 |
| | Ink or coating in keyboard, power supply, LCD module and cable | diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | 75980-60-8 |
| | Polymeric compounds in storage device. | bis(4-chlorophenyl) sulphone | 80-07-9 |
| | Ink on KB, cable, label | 2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one | 119344-86-4 |
| | Mechanical parts | 2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329) | 3147-75-9 |
| | UV Paint in KB, label ink in LCD module, PSU and cable | diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | 75980-60-8 |
| | Die Attach Adhesive in keyboard, storage, monitor and battery, Rubber Seals in power supply and adapter | Bis(α,α -dimethylbenzyl) peroxide | 80-43-3 |

Lenovo Intelligent Devices Group (IDG)-Motorola:

| Product Type | Article | Substance | CAS no. |
|---|-----------------------|----------------|-----------|
| ➤ Motorola Branded Phones and accessories | Copper 3604 | Lead | 7439-92-1 |
| | Electronic components | Lead monoxide | 1317-36-8 |
| | Cell battery | Dimethylglycol | 110-71-4 |

Lenovo Global Technology / Infrastructure Solutions Group (ISG):

| Product Type | Article | Substance | CAS no. |
|--|---|--|------------|
| ➤ Server ➤ Storage ➤ Switch ➤ Network | Glass in chip resistor on PCB | Diboron trioxide | 1303-86-2 |
| | Chip in integrated circuit and HDD | 4,4'-isopropylidenediphenol(BPA) | 80-05-7 |
| | Film on flexible printed circuit | 1,2-dimethoxyethane,ethylene glycol dimethyl ether (EGDME) | 110-71-4 |
| | HDD | Dicyclohexyl phthalate | 84-61-7 |
| | Organic Materials or Insulator on PCBA | Octamethylcyclotetrasiloxane | 556-67-2 |
| | Varistor of power supply, Inductor of SSD | Benzene-1,2,4-tricarboxylic acid 1,2-anhydride | 552-30-7 |
| | Mechanical metal alloys and solder alloys | Lead | 7439-92-1 |
| | Chip resistor in SSD | Lead monoxide | 1317-36-8 |
| | Ceramics or Glass on PCBA | Lead titanium trioxide | 12060-00-3 |
| | Ceramics in HDD | Lead titanium zirconium oxide | 12626-81-2 |
| | Glass in resistor of cardpop | Orange lead | 1314-41-6 |
| | Resistive layer of RAID CARD | Silicic acid, lead salt | 11120-22-2 |
| Contact point of UPS product | Cadmium oxide | 1306-19-0 | |

| | | |
|--|--|-------------|
| Electrolyte in battery | 1,3-propanesultone | 1120-71-4 |
| Plating in electrical card, antenna | Boric acid | 10043-35-3 |
| Tape in cable, chassis | Tris(2-chloroethyl) phosphate | 115-96-8 |
| Solder used in storage device, electrical card. | 2-ethoxyethyl acetate | 111-15-9 |
| Molding compound in storage device, power supply, console device | Hexahydromethylphthalic anhydride | 25550-51-0 |
| Solder used in storage device, ODD, power supply, electrical card. | 1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC) | 2451-62-9 |
| PCB solder mask or ink used in storage, power supply and keyboard | 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one | 71868-10-5 |
| Epoxy colophony in power supply and UPS product. | 2-methylimidazole | 693-98-1 |
| PCB solder mask or ink of fan; layer of storage, cable housing | Melamine | 108-78-1 |
| PWB of fan, prepreg of cable, semi curing film of PCB, power supply and cable | 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol | 79-94-7 |
| Cable jacket | Bis(2-ethylhexyl) tetrabromophthalate | 26040-51-7 |
| Ink in power supply, electrical card; cable power supply, chassis and storage device. | diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | 75980-60-8 |
| Polymeric compounds in storage device. | bis(4-chlorophenyl) sulphone | 80-07-9 |
| Ink on power supply, fan module, heatsink, mechanical parts and etc. | 2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one | 119344-86-4 |
| Plastic of bushing in cable | 2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329) | 3147-75-9 |
| Laminate of electrical card, power supply, cable and etc. | diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | 75980-60-8 |
| Die Attach in electronic card/board, storage, Rubber/ Paint in power supply, Ring in heatsink, | Bis(α,α-dimethylbenzyl) peroxide | 80-43-3 |

Safe Use:

The SVHC used in these products do not pose a safety risk to customers under normal use conditions. In many geographies, Lenovo offers recycling programs for our customers to help ensure these products are recycled appropriately. For more information about our recycling programs, please visit:

<https://www.lenovo.com/us/en/compliance/recycling>

Lenovo Expectations for its Suppliers

Lenovo expects its suppliers to understand and comply with EU REACH. Suppliers must pre-register or register their substances or preparations as required by the Regulation (Article 7). Suppliers must assess whether the products and parts they supply to Lenovo contain "substances of very high concern" (SVHC) in a concentration of more than 0.1% w/w at article level. If this is the case, this information must be communicated to Lenovo prior

to supply of parts. If the total weight of the SVHC exceeds one ton (per producer or importer) per year, the supplier must ensure the substance is registered for use with the European Chemicals Agency (ECHA).

Lenovo aims to eliminate REACH SVHC substances. This objective is dependent upon the identification and availability of safe, environmentally proven alternative materials that do not compromise product safety, reliability or performance. Suppliers are encouraged to take measures to reduce the use of SVHC substances in accordance with our chemical policy.

Lenovo reserves the right to update and modify this communication, as it believes necessary or appropriate.

For more information about REACH, please access the European Chemical Agency (ECHA) website:

<https://echa.europa.eu/>

The Candidate List can be found at: ECHA Website - [Candidate list](#)

A handwritten signature in black ink that reads "Mary A. Jacques". The signature is written in a cursive style with a large initial "M" and a long, sweeping tail.

Mary Jacques

Executive Director, Global ESG and Regulatory Compliance

Registrierung, Bewertung, Zulassung und Beschränkung chemischer Stoffe (REACH) Information

REACH ist die Chemikalienverordnung der Europäischen Gemeinschaft (EG) und regelt die sichere Verwendung von Chemikalien. (EG Nr. 1907/2006).

In Übereinstimmung mit den Anforderungen von REACH informieren wir hiermit über die Verwendung von besonders besorgniserregenden Stoffen (Substances of Very High Concern, SVHC) in einer Konzentration von mehr als 0,1 Massenprozent (w/w) in Artikeln, um eine sichere Verwendung des Erzeugnisses zur ermöglichen.



Information de restrictions relatives aux substances chimiques (REACH)

REACH est l'acronyme de "Registration, Evaluation and Authorisation of Chemicals", que l'on peut traduire en français par système d'enregistrement, d'évaluation et d'autorisation des substances chimiques. C'est un système de réglementation proposé par la commission européenne (EC 1907/2006) pour une utilisation sûre des produits chimiques, visant à ce que les producteurs et importateurs de produits chimiques précisent les substances mises sur le marché.

En accord avec REACH, nous vous informons que les produits suivants contiennent des substances chimiques dangereuses classées SVHC "substances of very high concern" dans une proportion supérieure à 0,1% de la masse du produit fini.

Dichiarazione sulla registrazione, la valutazione, l'autorizzazione e la restrizione delle sostanze chimiche (REACH)

La normativa europea REACH (EC 1907/2006) è un sistema integrato di registrazione, valutazione e autorizzazione delle sostanze chimiche che mira ad assicurare un maggiore livello di protezione della salute umana e dell'ambiente.

Per assicurare un utilizzo sicuro, e conformemente agli obblighi e alle definizioni della normativa REACH, si indicano le "sostanze estremamente preoccupanti" (Substances of Very High Concern, SVHC) presenti nel prodotto in misura maggiore a 0,1% in termini di peso.

Registración, Evaluación y Autorización de Sustancias Químicas en la Union Europea (REACH)

Divulgación

REACH es la abreviación de "Registration, Evaluation and Authorisation of Chemicals" que se puede traducir como sistema de registraci3n, evaluaci3n e autorizaci3n de sustancias qu3micas. Es un sistema regulador propuesto por la Comisi3n Europea (EC 1907/2006) para la gesti3n y el uso seguro de productos qu3micos (EC 1907/2006). El productor y el importador tienen que precisar las sustancias que ponen en el mercado.

De conformidad con los requisitos de REACH y para permitir el uso seguro del producto, esto es para informarle de la presencia de las siguientes "sustancias extremadamente preocupantes" (SEP / Substances of Very High Concern, SVHC) seg3n la definici3n de REACH, contenido en los art3culos en concentraciones superiores al 0,1% peso en peso (w/w).