

Introduction

Request for allocation of product group for produced or imported chemical mixtures placed in territory of Latvia register are set by point 6.4. of the Annex of Regulation of the Cabinet of Ministers of the Republic of Latvia No. 795 on accounting order and database of chemical substances and mixtures¹, on 22nd of December 2015 (unfortunately it is currently available only in Latvian language). Product group has to be apply taking into account this instruction.

Term 'volatile organic compound' (VOC) is set by Regulations regarding the limitation of emissions of volatile organic compounds from certain products. It reads as follows: volatile organic compound is an organic compound the initial boiling point of which is 250 °C or less at a standard pressure of 101.3 kPa.

This instruction is made based on EMEP/EEA air pollutant emission inventory guidebook – 2013 (Part B, Chapter 2.D-2.L)².

Product groups and their description

To allocate product group for produced or imported chemical mixtures placed in territory of Latvia, possible further major use (product group) should be identified. There are seven product groups with their corresponding sub-groups. First one of the seven group has to be chosen and after corresponding sub-group from the two-tier list in the data entry field of product group. If there is no possible option to choose any sub-group, the latest one has to be chosen, for instance under product group *1. VOC containing mixtures (industrial/professional use)* shall choose *1.7. Biocidal products (except for disinfectants)*.

List of product groups with their corresponding sub-groups in English and Latvian are mentioned in Table 1.

¹ <http://likumi.lv/ta/id/279100-kimisko-vielu-un-maisijumu-uzskaites-kartiba-un-datubaze>

² <http://www.eea.europa.eu/publications/emep-eea-guidebook-2013>

Table 1

Product group/sub-group	Produkta grupa/apakšgrupa
1. VOC containing mixtures (industrial/professional use)	1. GOS saturoši maisījumi, kas nav paredzēti profesionāliem nolūkiem
1.1. Cosmetics, disinfectants, toiletries – products for the maintenance or improvement of personal appearance, health or hygiene	1.1. Kosmētika, dezinfekcijas līdzekļi, tualetes piederumi - līdzekļi, kas paredzēti tikai cilvēkam
1.2. Air freshener, general purpose cleaners, disinfectants for surfaces	1.2. Mājsaimniecībā izmantojamie šķīdinātāju saturoši maisījumi
1.3. DIY/buildings: solvents containing mixtures	1.3. Būvniecībā izmantojamie šķīdinātāju saturoši maisījumi
1.4. DIY/buildings: sealants, filling agents	1.4. Būvniecībā izmantojamie hermētiķi
1.5. DIY/buildings: paint/varnish removers and solvents	1.5. Būvniecībā izmantojamie krāsu atšķaidītāji
1.6. Car care products	1.6. Auto apkopes līdzekļi
1.7. Biocidal products (except for disinfectants)	1.7. Biocīdi (izņemot dezinfekcijas līdzekļus)
2. VOC containing coatings (paints, lacquers, woodstains, primers)	2. GOS saturoši pārklājumi (krāsas, lakas, beices, gruntējumi)
2.1. Decorative coating applications: construction and buildings (non-aerosols)	2.1. Dekoratīvie pārklājumi: ēkām un būvēm (izņemot aerosolus)
2.2. Decorative coating applications: domestic use (non-aerosols)	2.2. Dekoratīvie pārklājumi: mājsaimniecībai (izņemot aerosolus)
2.3. Decorative coating applications: construction and buildings (aerosols)	2.3. Dekoratīvie pārklājumi: ēkām un būvēm (aerosoli)
2.4. Decorative coating applications: domestic use (aerosols)	2.4. Dekoratīvie pārklājumi: mājsaimniecībai (aerosoli)
2.5. Industrial coating applications: manufacture of automobiles	2.5. Industriālie pārklājumi: automašīnu ražošana
2.6. Industrial coating applications: car repairing	2.6. Industriālie pārklājumi: automašīnu remontēšana
2.7. Industrial coating applications: coil coating	2.7. Industriālie pārklājumi: metāla lokšņu pārklāšana
2.8. Industrial coating applications: boat building	2.8. Industriālie pārklājumi: laivu būvēšana
2.9. Industrial coating applications: wood (except for wood preservatives and creosote)	2.9. Industriālie pārklājumi: koksne (izņemot koksnes aizsardzības līdzekļus)
2.10. Other industrial coating applications	2.10. Citi industriālie pārklājumi
2.11. Other coating applications: other non-industrial coating applications	2.11. Citi pārklājumi: citi neindustriālie pārklājumi
3. Solvent degreasing	3. GOS izmantošana attaukošanā
3.1. Metal, electronic components degreasing	3.1. Metālu, elektronisko komponentu attaukošana
4. Use of solvents from dry cleaning	4. GOS izmantošana ķīmiskā tīrīšanā (sausā)
4.1. Dry cleaning	4.1. Sausā tīrīšana
5. VOC containing mixtures for chemical industry	5. GOS izmantošana ražošanā
5.1. Polyester processing	5.1. Poliesteru ražošana
5.2. Polystyrene processing	5.2. Putu polistirola ražošana
5.3. Polyurethane processing	5.3. Poliuretāna putu ražošana

5.4. Rubber processing	5.4. Gumijas ražošana
5.5. Tyre production	5.5. Riepu ražošana
5.6. Organic chemical products manufacturing including pharmaceutical products	5.6. Organisko ķīmisko produktu ražošana, t.sk. farmaceitisko produktu ražošana
5.7. Paints, inks and glues manufacturing	5.7. Krāsu, tinšu un līmju ražošana
5.8. Asphalt blowing	5.8. Asfalta izpūšana
5.9. Adhesive, magnetic tapes, films and photographs manufacturing	5.9. Adhezīvu, magnētisko lentu, filmu un fotogrāfiju ražošana
5.10. Manufacture of shoes	5.10. Kurpju ražošana
5.11. Leather tanning	5.11. Ādas mīcēšana
5.12. Other manufacturing	5.12. Cita ražošana
6. VOC containing mixtures for printing industry	6. GOS izmantošana iespieddarbos, poligrāfijā
6.1. Printing industry	6.1. Iespieddarbi, poligrāfija
7. Other use of solvents and related activities	7. GOS izmantošana citās produktu grupās
7.1. Glass wool coating with VOC	7.1. Stikla vates pārklāšana ar GOS
7.2. Mineral wool coating with VOC	7.2. Akmens vates pārklāšana ar GOS
7.3. Fat, edible and non-edible oil extraction	7.3. GOS tauku, ēdamu un neēdamu eļļu ekstrakcijā
7.4. Application of glues and adhesives (except for building industry)	7.4. Līmju un adhezīvu izmantošana (izņemot būvniecības nozari)
7.5. Preservation of wood, organic solvent-borne preservative	7.5. Koksnes aizsardzības līdzekļi uz organisko šķīdinātāju bāzes
7.6. Other use of VOC containing mixtures	7.6. Citur izmantotajiem GOS saturošiem maisījumiem
7.7. Preservation of wood, water-borne preservative	7.7. Koksnes aizsardzības līdzekļi uz ūdens bāzes

1. VOC containing mixtures (industrial/professional use) (GOS saturoši maisījumi, kas nav paredzēti profesionāliem nolūkiem)

This product group refers to the VOC containing mixtures from domestic use. Many of these products may also be used in industry and commerce.

Note: It is not always possible to differentiate domestic and industrial/professional use, but whenever possible this differentiation should be emphasised in the reporting. If product is intended for use both in domestic and industrial/professional use, notify it under 1. VOC containing mixtures (industrial/professional use). If product is intended for use only in industrial/professional use, notify it under 7.6. Other use of VOC containing mixtures.

1.1. Cosmetics, disinfectants, toiletries – products for the maintenance or improvement of personal appearance, health or hygiene (Kosmētika, dezinfekcijas līdzekļi, tualetes piederumi - līdzekļi, kas paredzēti tikai cilvēkam)

Products for the maintenance or improvement of personal appearance, health or hygiene. Types of the products: aerosols (all types), styling aids, pumps, styling gels, other hair care, pumps, antiperspirants/deodorants, pumps, soaps, perfumes, after shave, nail-polish remover, astringent, healthcare products, external, rubbing alcohol, antibacterial soaps, wet wipes, biocidal products used for human hygiene purposes etc.

1.2. Air freshener, general purpose cleaners, disinfectants for surfaces (*Mājsaimniecībā izmantojamie šķīdinātāju saturoši maisījumi*)

Products used to maintain or improve the appearance of household durables. Types of the products: aerosols (all types), general purpose cleaners, glass cleaner, air freshener, slow release, toilet blocks, disinfectants, waxes and polishes, antistatic agents, shoes fresheners and creams, rust remover, stain removers, disinfectants and algacides not intended for direct application to humans or animals, products used to impregnate materials which may enter into contact with food and for the disinfection of drinking water for both humans and animals etc.

1.3. DIY/buildings: solvents containing mixtures (*Būvniecībā izmantojamie šķīdinātāju saturoši maisījumi*)

Products used to improve the appearance or the structure of buildings under 'Do It Yourself' principle. This sub-group does not include coatings (2. *VOC containing coatings*). Types of the products: carpet/tile adhesives, pipe cements, construction adhesives, paint thinners and removers, solvents etc. This product sub-group does not include solvents used for cleaning coating equipment, covered under the product sub-group 2.2. *Decorative coating applications: domestic use.*

1.4. DIY/buildings: sealants, filling agents (*Būvniecībā izmantojamie hermētiķi*)

Sealants intended for filling gaps and holes, as well as for filling holes that have developed around window frames and for fixing surface defects before painting.

1.5. DIY/buildings: paint/varnish removers and solvents (*Būvniecībā izmantojamie krāsu atšķaidītāji*)

This sub-group covers the use of paint/varnish removers and solvents but it does not include solvents used for cleaning coating equipment, covered under the product sub-group 2.2. *Decorative coating applications: domestic use.*

1.6. Car care products (*Auto apkopes līdzekļi*)

Products used for improving the appearance of vehicles to maintain vehicles. Products such as aerosols (all types), antifreeze, brake fluids, car waxes and polishes, de-icer pumps, engine degreasers, windscreen washing fluid etc.

Note: It is not always possible to differentiate products from 1.6. Car care products and 2.6. Industrial coating applications: car repairing. The main difference is that this sub-group does not include products from commerce sectors (2.6. Industrial coating applications: car repairing).

1.7. Biocidal products (except for disinfectants) (*Biocīdi (izņemot dezinfekcijas līdzekļus)*)

Types of the products: rodenticides (products used for the control of mice, rats or other rodents), avicides (products used for the control of birds), molluscicides, vermicides and products to control other invertebrates, piscicides (products used for the control of fish), insecticides, acaricides and products to control other arthropods, repellents and attractants, pest control of other vertebrates, wood preservatives (this sub-group only covers domestic use and does not include industrial use of wood preservatives (7.5. *Preservation of wood, organic solvent-borne preservative* or 7.7. *Preservation of wood, water-borne preservative*)).

2. VOC containing coatings (*paints, lacquers, woodstains, primers*) (*GOS saturoši pārklājumi (krāsas, lakas, beices, gruntējumi)*)

This sub-group deals with the use of VOC containing coatings within the industrial and domestic sectors. The sub-group addresses paints, lacquers, woodstains, primers, and varnishes with the exception of glues and adhesives which are covered by sub-groups 1.3. *DIY/buildings: solvents containing mixtures* and 7.4. *Application of glues and adhesives*, accordingly

❖ Decorative coating application

This sub-group refers to the use of the coatings for interior walls, ceilings and floors; exterior walls and floors; interior wood substrates, e.g. floors, furniture, doors, window frames; exterior wood substrates, e.g. fences, garden sheds, gable boards, garden furniture, wooden chalets; interior metallic substrates, e.g. radiators, tanks; exterior metallic substrates, e.g. fences, portals, garden furniture. Coatings can fulfil a range of functions (e.g. undercoat or topcoat).

2.1. Decorative coating applications: construction and buildings (non-aerosols) (*Dekoratīvie pārklājumi: ēkām un būvēm (izņemot aerosolus)*)

This sub-group refers to the use of coatings for architectural application by construction enterprises and professional painters with exception of aerosols and industrially applied coatings for wood which are covered by sub-groups 2.3. *Decorative coating applications: construction and buildings* and 2.9. *Industrial coating applications: wood*.

2.2. Decorative coating applications: domestic use (non-aerosols) (*Dekoratīvie pārklājumi: mājsaimniecībai (izņemot aerosolus)*)

This sub-group refers to the use of coatings for architectural or furniture applications by private consumers except aerosols which are included by sub-group 2.4. *Decorative coating applications: domestic use*. It is good practice not to include other domestic solvent use, paint/varnish removers and solvents used for thinning paints which are covered by 1.3. *DIY/buildings: solvents containing mixtures*. Industrially applied coatings for wood is also not included in this sub-group (see 2.9. *Industrial coating applications: wood*).

2.3. Decorative coating applications: construction and buildings (aerosols) (*Dekoratīvie pārklājumi: ēkām un būvēm (aerosoli)*)

This sub-group refers to the use of coatings (aerosols) for architectural application by construction enterprises and professional painters.

2.4. Decorative coating applications: domestic use (aerosols) (*Dekoratīvie pārklājumi: mājsaimniecībai (aerosolus)*)

This sub-group refers to the use of coatings for architectural or furniture applications by private consumers (aerosols).

❖ Industrial coating application

This sub-group refers to the coatings of manufactures of automobiles, car repairing, coil coating, boat building, wood and other industrial coatings applications.

2.5. Industrial coating applications: manufacture of automobiles (*Industriālie pārklājumi: automašīnu ražošana*)

This sub-group refers to the coatings of automobiles as part of their manufacture. It includes also corrosion protection at point of manufacture as well as application of sealants as part of the manufacturing process.

2.6. Industrial coating applications: car repairing (*Industriālie pārklājumi: automašīnu remontēšana*)

This sub-group refers to the coatings of road vehicles carried out as part of vehicle repair, conservation or decoration outside of manufacturing sites, or any use of refinishing-type coatings where this is carried out as part of an original manufacturing process.

Coatings of the group of vehicle refinishing products in order to prepare the surface including cleaning products. Surface preparatory and cleaning products designed for the mechanical or chemical removal of old coatings and rust, in order to prepare the surface as a basis for a new coating.

Products for cleaning spray-guns and the equipment thereof – paint strippers and removers of silicone compounds; pre-cleaners – cleaning products designed for the removal of surface contamination during the preparation of the surface for the application of coating products. Coatings of the group of vehicle refinishing products – degreasers (including anti-static degreasers for the degreasing of artificial materials).

2.7. Industrial coating applications: coil coating (*Industriālie pārklājumi: metāla lokšņu pārklāšana*)

This sub-group refers to the coatings of coiled steel, aluminium or copper alloy strips as a continuous process.

2.8. Industrial coating applications: boat building (*Industriālie pārklājumi: laivu būvēšana*)

This sub-group refers to all coatings for the hulls, interiors and superstructures of both new and old ships and boats. Paints for corrosion protection and anti-fouling properties.

2.9. Industrial coating applications: wood (*except for wood preservatives and creosote*) (*Industriālie pārklājumi: koksne (izņemot koksnes aizsardzības līdzekļus)*)

This sub-group refers to all coatings for wood and wooden products, but excludes the use of wood preservatives and creosote (see sub-group 2.9. *Industrial coating applications: wood*).

2.10. Other industrial coating applications (*Citi industriālie pārklājumi*)

This sub-group refers to all industrially applied coatings for metal, plastic, paper, leather and glass substrates which are not covered by any of the other sub-groups described here. Products painted include agricultural, construction, and earthmoving equipment ('ACE'), aircraft, cans and drums, caravans, domestic appliances, electrical components, freight containers, machine tools, military vehicles, motor vehicle components including engines, office equipment, paper and plastics, and toys etc.

2.11. Other coating applications: other non-industrial coating applications (*Citi pārklājumi: citi neindustriālie pārklājumi*)

This sub-group refers to the use of high performance protective and/or anti corrosive paints applied to structural steel, concrete and other substrates and any other non-industrial coatings which are not covered by any of the other sub-groups described here. The sub-group includes coatings for offshore drilling rigs, production platforms and similar structures as well as road marking paints and non-decorative floor paints

3. Solvent degreasing (*GOS izmantošana attaukošanā*)

Degreasing is a process for cleaning products from water-insoluble substances such as grease, fats, oils, waxes, carbon deposits, fluxes and tars. In most cases the process is applied to metal products, but also plastic, fibreglass, printed circuit boards and other products are treated by the same process. Solvent degreasing is also used in industries such as printing and production of chemicals, plastics, rubber, textiles, glass, paper, and electric power. Repair stations for transportation vehicles also sometimes use solvent cleaning.

3.1. Metal, electronic components degreasing (*Metālu, elektronisko komponentu attaukošana*)

This sub-group refers to the industrial metal and electronic components manufacturing (wafers) degreasing by using organic solvents.

4. Use of solvents from dry cleaning (*GOS izmantošana ķīmiskā tīrīšanā (sausā)*)

This sub-group refers to any process to remove contamination from furs, leather, down leathers, textiles or other objects made of fibres using organic solvents.

4.1. Dry cleaning (*Ķīmiskā tīrīšana (sausā tīrīšana)*)

Dry cleaning refers to any process to remove contamination from furs, leather, down leathers, textiles or other objects made of fibres using organic solvents. Small amounts of detergents are normally added to aid cleaning, e.g. surface-active agents, solvents (alcohols, petroleum), optical whitener, resin finishing, disinfectant additives and aromatic substances etc., which also include this sub-group.

5. VOC containing mixtures for chemical industry (*GOS izmantošana ražošanā*)

This product group covers feedstock which provide for various chemical product manufacturing.

- 5.1. Polyester processing (*Poliesteru ražošana*)
- 5.2. Polystyrene processing (*Putu polistirola ražošana*)
- 5.3. Polyurethane processing (*Poliuretāna putu ražošana*)
- 5.4. Rubber processing (*Gumijas ražošana*)
- 5.5. Tyre production (*Riepu ražošana*)
- 5.6. Organic chemical products manufacturing including pharmaceutical products (*Organisko ķīmisko produktu ražošana, t.sk., farmaceitisko produktu ražošana*)
- 5.7. Paints, inks and glues manufacturing (*Krāsu, tinšu un līmju ražošana*)
- 5.8. Asphalt blowing (*Asfalta izpūšana*)
- 5.9. Adhesive, magnetic tapes, films and photographs manufacturing (*Adhezīvu, magnētisko lentu, filmu un fotogrāfiju ražošana*)
- 5.10. Manufacture of shoes (*Kurpju ražošana*)
- 5.11. Leather tanning (*Ādas mīcēšana*)
- 5.12. Other manufacturing (*Cita ražošana*)
- 6. VOC containing mixtures for printing industry (*GOS izmantošana iespieddarbos, poligrāfijā*)

Printing involves the use of inks which may contain a proportion of organic solvents. In the printing industry, the types of industries and main techniques used may be classified as follows: Heat set offset printing, publication gravure, packaging, small flexography, packaging, large flexography, packaging, rotogravure.

6.1. Printing industry (*Poligrāfija, tipogrāfija*)

This sub-group includes inks which may contain a proportion of organic solvents. This sub-group covers also ink solvents, diluents, cleaners and dampeners.

7. Other use of solvents and related activities (*Citu NMGOS saturošu produktu izmantošana*)

7.1. Glass wool coating with VOC (*Stikla vates pārklāšana ar GOS*)

This sub-group includes VOC containing mixtures when applied on glass wool.

7.2. Mineral wool coating with VOC (*Akmensvates pārklāšana ar GOS*)

This sub-group includes VOC containing mixtures when applied on mineral wool.

7.3. Fat, edible and non-edible oil extraction (*GOS tauku, ēdamu un neēdamu eļļu ekstrakcijā*)

This sub-group includes solvent extraction of edible oils from oilseeds and drying of leftover seeds before resale as animal feed. The extraction of oil from oil seeds is performed either mechanically or through the use of solvents, or both.

7.4. Application of glues and adhesives (except for building industry) (*Līmju un adhezīvu izmantošana (izņemot būvniecības nozari)*)

This sub-group covers adhesive tapes, composite foils, the transportation sector (passenger cars, commercial vehicles, mobile homes, rail vehicles and aircrafts), the manufacture of shoes

and leather goods and the wood material and furniture industry. These glues and adhesives are also used for packaging, non-industrial application of adhesives, for tapes and labels, for book binding, transportation, for lamination, footwear, for sealants, and other.

This sub-group does not include glues and adhesives relating to the sub-group 1.3. *DIY/buildings: solvents containing mixtures.*

7.5. Preservation of wood, organic solvent-borne preservative (*Koksnes aizsardzības līdzekļi uz organisko šķīdinātāju bāzes*)

This sub-group considers industrial processes for the impregnation with, or immersion of timber to protect it against fungal and insect attack and also against weathering. This activity only covers industrial preservation and does not include domestic use of wood preservatives, which is covered under 1.7. *Biocidal products (except for disinfectants)*. Furthermore, this sub-group does not include paints for wood and wooden products (2.9. *Industrial coating applications: wood*).

Type of preservative: creosote preservatives and organic solvent-borne preservatives.

7.6. Other use of VOC containing mixtures (*Citur izmantojami GOS saturoši maisījumi*)

This sub-group refers to all VOC containing mixtures from other use which are not covered by any of other product groups described in this instruction.

Equally, this sub-group includes the following types of the products: petrol, petrol additive, aviation gasoline, starting gas, liquefied petroleum gas, propane gas, butane gas, natural gas, fuel gas for starting of the engine, liquefied-gas fuels for lighters, gasoline type jet fuel, kerosene type jet fuel, motor sport fuel, marine fuels, diesel, diesel additive, kerosene, heavy fuel oil, biodiesel, biodiesel additive, shale oil, high temperature pitch, fertilisers (for plants, lawn etc.), hladagent and other products which are similar to those proposed here.

7.7. Preservation of wood, water-borne preservative (*Koksnes aizsardzības līdzekļi uz ūdens bāzes*)

This sub-group considers industrial processes for the impregnation with, or immersion of timber to protect it against fungal and insect attack and also against weathering. This activity only covers industrial preservation and does not include domestic use of wood preservatives, which is covered under 1.7. *Biocidal products (except for disinfectants)*. Furthermore, this sub-group does not include paints for wood and wooden products (2.9. *Industrial coating applications: wood*).

Type of preservative: water-borne preservatives.