

# **THE NEFAB GROUP'S LIST OF BANNED & RESTRICTED SUBSTANCES**

**This document is valid as of 2017-05-31**

# THE NEFAB GROUP'S LIST OF BANNED & RESTRICTED SUBSTANCES

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## 1. INTRODUCTION

This document specifies all substances which use is banned or restricted in products or in manufacturing processes. It also contains substances under observation (SoU).

## 2. OBJECTIVE

The objective of Nefab Group's list of banned & restricted substances is to achieve compliance with our environmental policy, regulations and legislations. Therefore, Nefab requires that all materials, product or packaging do not include any substances listed in the following document.

**Note!** Legislative changes in between two versions of this document shall always be considered.

## 3. DEFINITION OF NEFAB CLASSIFICATION

- **Banned Substances:** Substances that must not be used in any products put on the market by the Nefab Group.
- **Restricted substances:** Substances that must not be presented in products put on the market by the Nefab Group, but exemptions can exist.
- **Substances under Observation (SuO):** Substances under Observation shall be substituted when alternatives that are technically, economically and environmentally feasible are available.

**Note!** In case local or regional legislation goes beyond the requirements in this document, such legislation must be followed, in addition to the requirements in this document.

## 4. DEFINITION OF PROPERTIES

| Abbreviation | Properties  |
|--------------|---|
| A            | Allergen  |
| BA           | Bio Accumulating  |
| C            | Carcinogenic  |
| CS           | Chemical Structure; due to known risks with similar chemicals |
| DE           | Dangerous to the Environment                                  |
| ED           | Endocrine Disrupter   |
| ET           | Eco-Toxic   |
| GW           | Greenhouse Warming  |
| HAT          | High Aquatic Toxic  |
| M            | Mutagenic   |
| NT           | Neuro Toxic   |
| OD           | Ozone Depleting   |
| POP          | Persistent Organic Pollutant                                  |

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|   |                       |
|---|-----------------------|
| R | Toxic to Reproduction |
| T | Toxic                 |

## 5. DEFINITION OF MAXIMUM CONCENTRATION VALUES

The concentration is to be calculated on: Purchased material or article. For assembled products, also for all subcomponents that might be sold as spare parts.

- Banned or restricted materials: 0,1 wt.%
- SOC substances that are substances of very high concern (REACH SCHCs): 0,1 wt.%
- Other SOC substances: -1%

RoHS substances on homogeneous material as defined in the RoHS regulation for all goods produced or imported into the European Community.

RoHS substances are Cadmium, Lead, Mercury, Chromium (VI), PBBs and PBDEs.

**Note!** For substances listed as part of group(s) individually, the more stringent limit values apply.

**Note!** Local legislation may call for more stringent Maximum Concentration Values.

## 6. SUBSTANCES OF VERY HIGH CONCERN (SVHC)

The Candidate list of chemicals that meet the criteria of SVHC (Substances of Very High Concern). The definition of these substances, that have serious and often irreversible effects on human health and the environment, can be found in the REACH legislation. The identification of a substance as a SVHC and its inclusion in the Candidate List creates certain legal obligations for the importers, producers and suppliers of a product that contain such substance. For example, the requirement for a company to provide information to customers concerning the presence of such substance.

The Candidate list is available on the European Chemicals Agency's site at <https://echa.europa.eu/candidate-list-table> and companies will have to inform the moment a substance is published on the list.

## 7. SUBSTANCES THAT ARE CARCINOGENIC, MUTAGENIC OR TOXIC TO REPRODUCTION (CMRS)

Substances that are carcinogenic, mutagenic or toxic to reproduction (CMRs) are of specific concern due to the long term and serious effects that they may exert on human health. [https://echa.europa.eu/documents/10162/13562/cmr\\_report\\_en.pdf](https://echa.europa.eu/documents/10162/13562/cmr_report_en.pdf)

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### 8. CONFLICT MINERALS

Conflict minerals are gold, tantalum, tin and tungsten. Suppliers are expected to, upon request, declare the use and origin of Conflict minerals and the smelters used to process these minerals. Suppliers should make it possible to reasonably verify whether Conflict minerals contained in products provided to Nefab originate from the Democratic Republic of Congo or an adjoining country.

### 9. NANO MATERIALS

The size range of Nano materials according to the European Commission Recommendation on the definition is between 1 nm – 100 nm. Nano materials are used in e.g. oils, powders, coatings, lubrications and paint. The effects of inhalation and absorption through the skin and organs of Nano Materials are similar as with asbestos. Suppliers should declare the use of Nano materials in the materials, parts or products they provide to Nefab.

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### 10.1. Banned Substances

| Chemical compound                                       | CAS number | Applications                        | Exemptions | Properties   |
|---|------------|-------------------------------------|------------|--------------|
| 1-bromopropane (n-propyl bromide)                       | 106-94-5   | Solvent                             |            | OD,R         |
| 1,2 Dibromo -3-chloropropane                            | 96-12-08   |                                     |            | C,DE,M,R,T   |
| 1.1.1-trichloroethane                                   | 71-55-6    | Degreasing                          |            | OD           |
| 2 - Acetylaminofluoren                                  | 53-96-3    |                                     |            | C,T          |
| 2-benzotriazol-2-yl-4,6-ditertbutyl-phenol              | 3846-71-7  | Paint and plastics                  |            | BA,T         |
| 20-Methylcholanthrene (3-Metylcholantrene)              | 56-49-5    |                                     |            | C,DE,HAT     |
| 4-Dimethylamino azobenzene                              | 60-11-07   |                                     |            | C            |
| 4-Nitrodiphenyl   | 92-93-3    |                                     |            | C,DE,T       |
| Alkanes, C10-13, Short chain chlorinated paraffin       | 85535-84-8 | All applications                    |            | POP,DE,HAT,T |
| Aromatic amines classified as CMR category 1 or 2       | Several    | Azo colorants, diarylazo pigments   |            | C,M,R        |
| Asbestos  | Several    | Friction pads, gaskets, insulations |            | C            |
| Azocolourants containing CMR classified aromatic amines | Several    | Dyes, paints, inks, plastics        |            | C,M,R        |

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|  |           |   |  |                  |
|--|-----------|---|--|------------------|
| Azodyes that can decompose to carcinogenic aromatic amines           | Several   | Coloring of plastics  |  |                  |
| Benzene  | 71-43-2   | Solvent   |  | <b>C,T</b>       |
| Benzidine  | 92-87-5   |   |  | <b>C,DE,HAT</b>  |
| Benzyl butyl phthalate (BBP)   | 85-68-7   | Plasticizer, colors, materials to plastic, rubber, glue, filling medium, raw materials for paints |  | <b>R</b>         |
| BFCs (BromoFluoroCarbons - Halons), BCFCs (BromoChloroFluoroCarbons) | Several   | Fire extinguishers  |  | <b>DE,GW,OD</b>  |
| Bis(2-ethylhexyl phthalate (DEHP)                                    | 117-81-7  | Plasticizer in PVC, colors, plastic, rubber, glue, filling medium, raw materials for paints       |  | <b>R</b>         |
| Bis(chloromethyl) ether  | 542-88-1  |   |  | <b>C,T</b>       |
| CFCs (ChloroFluoroCarbons) - All                                     | Several   | Foam blowing agents, refrigerants   |  | <b>DE,GW,OD</b>  |
| Chlorinated solvents - All   | Several   | Solvents, spray can propellants, degreasing   |  | <b>C,GW,OD,T</b> |
| Cobalt dichloride  | 7646-79-9 | Surface treatment   |  | <b>C,R</b>       |
| Creosotes  | Several   | Wood preservation   |  | <b>T</b>         |
| Diarsenic pentaoxide   | 1303-28-2 | Wood preservative, in the paint industry, metallurgy and in the manufacture of special glass      |  | <b>C</b>         |
| Diarsenic trioxide   | 1327-53-3 | Dyeing of glass and enamel, in the manufacture of special glass                                   |  | <b>C</b>         |
| Diarylazopigments containing CMR classified aromatic amines          | Several   | Paints,inks,plastics  |  | <b>C,M,R</b>     |
| Dibutyl phthalate (DBP)  | 84-74-2   | Occurs in plastics, (mainly PVC), glue, paints, rubber  |  | <b>R</b>         |
| Diisobutyl phthalate (DIBP)  | 84-69-5   | Solvent in adhesives, inks for paper and packaging  |  | <b>R</b>         |

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|   |            |  |  |                 |
|---|------------|--|--|-----------------|
| Dimethyl fumarate (DMF)   | 624-49-7   | Drying and anti-mold agents, silica gel  |  | <b>R</b>        |
| Erionit   | 12510-42-8 |  |  | <b>C</b>        |
| Flourhydrocarbons (HFC)   | Several    | In production  |  | <b>GW</b>       |
| Halons - All  | Several    | All applications   |  |                 |
| HBFCs<br>(HydroBromoFluoroCarbons)<br>- All   | Several    | Foam blowing agents, refrigerants  |  | <b>DE,GW,OD</b> |
| HCFCs<br>(HydroChloroFluoroCarbons)<br>- All  | Several    | Blowing agents, refrigerants   |  | <b>DE,GW,OD</b> |
| Hexabromocyclododecane - HBCDD and its diastereoisomers   | Several    | Flame retardant in the plastic industry, additive flame retardant, insulating materials in the construction industry |  | <b>BA,T</b>     |
| Hexachlorobenzene   |            |  |  |                 |
| Hexamethylphosphoric acid triamide  | 680-31-9   |  |  | <b>C,M</b>      |
| Lead chromate   | 7758-97-6  | Dyes and pigments, corrosion protection, electric and electronic equipment covered by RoHS                           |  | <b>C,R</b>      |
| Lead chromate molybdate sulfate red   | 12656-85-8 | Dyes and pigments, corrosion protection  |  | <b>C,R</b>      |
| Lead sulfochromate yellow   | 1344-37-2  | Dyes and pigments, corrosion protection  |  | <b>C,R</b>      |
| MDA (4,4'-Diaminodiphenylmethane)   | 101-77-9   | All applications   |  | <b>C</b>        |
| Methyl bromide  | 74-83-9    | Pesticide in wood treatment  |  | <b>M,OD</b>     |
| Methylene chloride (dichloromethane)  | 75-09-02   | Solvent, degreasing  |  | <b>C</b>        |
| Methylnitrosourea   | 684-93-5   |  |  | <b>C,T</b>      |
| Mineral fibers of length < 5 micro meter and diameter of fiber < 3 micro meter when (length of fiber)>(diameter of fiber) > 3 | Several    | Thermal insulation   |  | <b>C</b>        |
| Monochlorodimethyleter  | 107-30-2   |  |  | <b>C</b>        |

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|  |            |   |  |                          |
|--|------------|---|--|--------------------------|
| N ethylpyrrolidone (NEP)   | 26 8791 4  | Solvents  |  | T,R                      |
| Nonylphenol  | 25154-52-3 | Surfactants,<br>cleaning agent  |  | DE, (ED), HAT            |
| Nonylphenoethoxylates  | 9016-45-9  | Surfactants,<br>cleaning agent  |  | DE, (ED), HAT            |
| Octylphenol derivatives  | Several    | Surfactants   |  | DE, (ED)                 |
| PCBs (polychlorinated biphenyls)                                   | Several    | Capacitors,<br>transformers,<br>hydraulic fluids,<br>additives in<br>polymers |  | BA,DE,ED,HAT,POP,<br>R,T |
| PCNs (polychlorinated naphthalene)                                 | 70776-03-3 | Flame retardants,<br>Lubricants   |  | BA, DE, ED, POP          |
| PCTs (polychlorinated terphenyls)                                  | Several    | Capacitors,<br>transformers,<br>hydraulic fluids,<br>additives in<br>polymers |  | BA,DE,POP                |
| Pentachlorophenol (PCP)  | 87-86-5    | Wood preservative   |  | DE,HAT,T,POP             |
| PFCs   | Several    | Foam blowing<br>agents,<br>refrigerants,<br>solvents                          |  | GW                       |
| PFOS -<br>Perfluorooctanesulfonic acid<br>(C8F17SO4) and its salts | 2795-39-3  | Surfactants   |  | BA,ET,POP                |
| Polychlorinated and<br>polybrominated dioxins and<br>furans        |            |   |  |                          |
| Polyvinyl chloride<br>(packaging)                                  |            |   |  |                          |
| POPs restricted in<br>international conventions -<br>All           | Several    | Pesticides  |  | BA,C,DE,ED,<br>HAT,POP T |
| Refractory ceramic fibers  | Several    | Thermal insulation  |  | C                        |
| Refrigerants and blowing<br>agents with GWP > 2000                 | Several    |   |  | GW                       |
| Sulfur hexafluoride, SF6   | 2551-62-4  | Insulator   |  | GW                       |
| Tetrachloroethylene  | 127-18-4   | Solvent, degreasing   |  | C                        |
| Tetrachloromethane (Carbon<br>Tetrachloride)                       | 56-23-5    | Degreasing  |  | DE, T,OD                 |
| Tri-(2,3-dibromo-propyl)<br>phosphate                              |            | Textile articles  |  | A                        |
| Tri-substituted<br>organostannic compounds                         | Several    | Additives, biocides   |  | DE, (ED)                 |
| Tributyl tin compounds   | Several    | In paint  |  | T                        |



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|                                   |          |  |  |      |
|-----------------------------------|----------|--|--|------|
| Trichloroethylene                 | 79-01-06 | Solvent, cleaning agent  |  | C    |
| Triphenyl tin compounds           | Several  | All applications   |  | T    |
| Tris (2-chloroethyl) phosphate    | 115-96-8 | Additive flame retardant for plastics, flame retardant paints lacquers and adhesives |  | C,R  |
| Tris-(1-aziridiny) phosphin oxide |          | Textile articles   |  | A    |
| β-Naphtylamine                    | 91-59-8  |  |  | C,DE |

## 10.2. Restricted Substances

| Chemical compound   | CAS number | Applications   | Exemptions   | Properties     |
|---|------------|--|--|----------------|
| Alkanes, C14-17, chlorinated paraffins                    | 85535-85-9 | Cutting oil, lubricant, plasticizer                                |  | POP            |
| Allergens / Sensitizers when exposure is likely (contact) | Several    | Handles, knobs, application with significant emissions             | Nickel in stainless steel, batteries or sub-layer e.g. in chrome plating | A              |
| Arsenic and its compounds                                 | Several    | Metal finishes, stabilizer in plastics, coating, wood preservative | Ceramic cook tops, metal alloys  | DE,T           |
| Benzo(a)pyrene  | 50-32-8    | Tires, carbon black  |  | C,POP          |
| Beryllium and its compounds                               | Several    | Electrical components, alloying element for copper                 | Technically required, e.g. electronics or alloying elements              | A,C, (DE), T   |
| Biphenyl-4-ylamine  | 92-67-1    | Intermediate, dyes, pigments, textiles                             |  | C              |
| Cadmium and its compounds                                 | Several    | Metal finishes, electric and electronic equipment                  | RoHS restrictions  |                |
| Dibutyltin compounds                                      | Several    | All applications were part can become a part of consumer product   | Banned in Europe by 01.01.2012, exemptions according to law.             | DE, ED, HAT, T |

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|   |                      |  |                   |                        |
|---|----------------------|--|-------------------|------------------------|
| Diocetyl tin (DOT) compounds  | Several              | Additives, biocides  |                   | DE, ED, HAT, T         |
| Formaldehyde, materials emitting Formaldehyde during use in concentrations above class E1 (DIN EN 120)  | 50-00-0              | Chip boards  | During phase out  | C,T,A                  |
| Hexavalent chromium and its compounds   | 18540-29-9 (Several) | Anti - corrosion agent. Surface treatment.   | RoHS restrictions |                        |
| Hydrazine   | 302-01-2, 7803-57-8  | Corrosion inhibitor in cooling systems   |                   | C                      |
| Lead and its compounds  | Several              | Solders, batteries, oven glass, stabilizers, printing inks, paints   | RoHS restrictions | BA,DE,HAT,R,T          |
| Mercury and its compounds   | Several              | Electronic equipment, Anti-fouling, wood preservation, textiles, water treatment and in batteries and accumulators | RoHS restrictions | BA,DE,T                |
| Methyl isocyanate (MIC), materials emitting MIC during use (heating) as for instance certain urea containing binders of heat insulation materials | 624-83-9             | Urea containing binders for oven insulation material   | During phase out  | T,A                    |
| Octylphenol-ethoxylates   | Several              | Surfactants  | During phase out  | ED                     |
| PAHs (Polycyclic Aromatic Hydrocarbons) classified as CMR 1 or 2  | Several              | Tires, carbon black  |                   | BA,C,DE,ED,HAT,POP,R,T |
| PBBs (polybrominated biphenyls)   | Several              | Flame retardants   | RoHS restrictions | BA, DE, ED, POP        |
| PBDEs (polybrominated diphenylethers, including deca-BDE, and Octabromodiphenyl ether)  | Several              | Flame retardants   | RoHS restrictions | BA, DE, ED, POP        |

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|   |                       |  |   |                     |
|---|-----------------------|--|---|---------------------|
| PCDEs (polychlorinated diphenylethers)  | Several               | Flame retardants                                       | During phase out in Europe. Geographical exemption for the rest of the world. | <b>BA,DE,ED,POP</b> |
| PFOA - Perfluorooctanoic acid and its salts   | Several               | Soil repellents, cleaning agents                       |   | <b>BA,POP,R</b>     |
| Sodium dichromate   | 10588-01-9, 7789-12-0 | Surface treatment of metal and electroplating products |   | <b>C,M,R</b>        |
| Substances classified CMR (Carcinogen, Mutagen, Reproduction toxic) - category 1 or 2 | Several               |  | Technically required, e.g. electronics or alloying elements                   | <b>C,M,R</b>        |
| Triclosan   | 3380-34-5             | Antimicrobial plastics, rubber and textile             | Essential applications outside EU   | <b>HAT,DE</b>       |
| Zinc chromate   | 13530-65-9            |  |   | <b>A,C</b>          |
|   |                       |  |   |                     |

### 10.3. Substances under Observation (SuO)

| Chemical compound                        | CAS number | Applications  | Exemptions | Properties                    |
|--|------------|---|------------|-------------------------------|
| Allergens / Sensitizers                  | Several    |   |            | <b>A</b>                      |
| Antimony and its compounds               | Several    | Flame retardants, ceramic cook tops, metal alloys         |            | <b>DE,HAT,C</b>               |
| Aromatic amines - All other              | Several    | Plasticizers, activators                                  |            | <b>C,DE,T</b>                 |
| Biocides - All                           |            |   |            | <b>HAT, DE, T</b>             |
| Bismuth and its compounds                | Several    | Surface finish, additive in solders                       |            | <b>Negative for recycling</b> |
| Bisphenol A (4,4'-Isopropylidendiphenol) | 80-05-07   | Polymer additive and rest at production of polycarbonates |            | <b>T</b>                      |

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|--|------------|--|-----------------|----------------|
| Bisphenol A and derivatives (monomeric)                                | Several    | Cyano acrylic adhesives, primers           |                 | A, (DE), ED    |
| Chlorinated paraffins C > 13 - All other                               | Several    | Plasticizers, flame retardants, lubricants |                 | DE,HAT         |
| Chlorinated polymers   | Several    | Cables                                     |                 | ET             |
| Cobalt (when exposure could occur under normal operating conditions)   | Several    | Metal alloys                               |                 | A              |
| e -HBCDD and its diastereoisomers                                      | 25637-99-4 | Flame retardant                            |                 | BA,T           |
| ED (Endocrine disrupting) substances on the REACH candidate list - All | Several    |  |                 | POP,ED,BA      |
| Fluorocarbons (FC)   | Several    | In production                              |                 | GW             |
| FOSA - Perfluorooctanesulfonamides                                     | Several    | Soil repellents, cleaning agents           |                 | BA,POP,R       |
| FOSE - Perfluorooctane sulfonamidoethanols                             | Several    | Soil repellents, cleaning agents           |                 | BA,POP,R       |
| FPCA - Perfluorocoboxylic acids and their salts                        | Several    | Soil repellents, cleaning agents           |                 | BA,POP,R       |
| FTCA - Fluorotelomercarboxylates                                       | Several    | Soil repellents, cleaning agents           |                 | POP            |
| FTOH - Fluorotelomeralkoholes  | Several    | Soil repellents, cleaning agents           |                 | POP            |
| FTS - Fluorotelomersulfonates  | Several    | Soil repellents, cleaning agents           |                 | POP            |
| Halogen-free phosphorus based organic flame retardants - All others    | Several    |  |                 | CS,DE,HAT,(NT) |
| Halogenated organic compounds - All other                              | Several    |  |                 |                |
| Halogenated organic flame retardants - All other                       | Several    |  |                 | BA,DE,ED,POP   |
| Halogenated organic phosphorous flame retardants - All                 | Several    |  |                 | NT,HAT         |
| Hexachlorobutadiene  | 87-68-3    |  |                 | POP            |
| Isocyanates - All  | Several    | PUR, primers                               |                 | A,C,T          |
| MCCP (Medium chained chlorinated paraffins C14-17)                     | Several    | Plasticizers, flame retardants             |                 | DE,HAT, ET     |
| Medium chained chlorinated paraffins (MCCP C10 - C13)                  | Several    |  |                 | POP            |
| Nickel and its alloys (except in steel alloys)                         | Several    | Surface treatment, metal alloys            | Stainless steel | A, (DE)        |

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|--|-----------|--|----------|----------------------|
| Nitrogen trifluoride   | 7783-54-2 | Plasma etching                                       |          | <b>GW</b>            |
| Other Perfluorinated substances  | Several   |  | Polymers | <b>POP</b>           |
| PBT (persistent, bioaccumulating and toxic) substances on the REACH candidate list - All     | Several   |  |          | <b>POP,ED,BA,HAT</b> |
| Perchlorate  | Several   | Li/MN02 Batteries                                    |          |                      |
| PFS - Perfluorinated sulfonates all other  | 2795-39-3 | Surfactants  |          | <b>BA,POP</b>        |
| Phthalates - All   | Several   | Plasticizers, lubricants                             |          | <b>ED,R,POP</b>      |
| PVC  |           | Cables, gaskets                                      |          |                      |
| Radioactive substances - All   | Several   | Spark gap and over voltage protection                |          | <b>C,M,R,T</b>       |
| Refrigerants and blowing agents with GWP > 15  | Several   |  |          | <b>GW</b>            |
| Silver and its compounds   | Several   | Antimicrobial plastics, coatings, rubber and textile |          | <b>HAT,DE</b>        |
| Substances classified CMR (H350,H340,H360)   | Several   |  |          | <b>C,M,R</b>         |
| Tetrabromobisphenol A (TBBPA)  | 79-94-7   | Flame retardant                                      |          | <b>BA,T</b>          |
| Toluene  | 108-88-3  | Solvents, adhesives                                  |          | <b>NT,R</b>          |
| Triphenylphosphine   | 603-35-0  |  |          | <b>A,DE,HAT</b>      |
| Triphenylphosphite   | 101-02-0  |  |          | <b>BA,DE,HAT</b>     |
| vPvB (very persistent and very bioaccumulating) substances on the REACH candidate list - All | Several   |  |          | <b>POP,ED,BA</b>     |

## 10.4. Substances with declaration requirements

| Substances                             | CAS number | For more information |
|--|------------|----------------------|
| Gold and its compounds                 | Several    | Section 8            |
| Tantalum and its compounds             | Several    | Section 8            |
| Tin and its compounds                  | Several    | Section 8            |
| Tungsten and its compounds             | Several    | Section 8            |
| Nanomaterial - all                     | Several    | Section 9            |
| Substances on the REACH Candidate list | Several    | Section 6            |

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