Title: Guideline to developing & selecting materials

<u>Disclaimer</u>: This publication is intended for guidance only and while the information is provided in utmost good faith and has been based on the best information currently available, is to be relied upon at the user's own risk. This is not intended to be a comprehensive treatment of the subject matter and is not intended to provide legal advice or to serve as a substitute for legal counsel. No representations or warranties are made with regards to its completeness or accuracy and no liability will be accepted for damages of any nature whatsoever resulting from the use of or reliance on the information. You should consult legal counsel to determine the applicable law for your situation.

Mission & Purpose

Intel Corporation strives to use materials and produce products in a safe and environmentally responsible manner. This guide helps to identify materials that are currenty regulated or subject to potential future regulations. It is the expectation that Intel's supply chain work in partnership to ensure that the most benign, technologically feasible materials are being selected. Please note this is not a comprehensive list and just a guideline

General Guidelines on Materials

Not Alllowed

The following Glycol Ether use prohibited at Intel: Industry Voluntary phase-out

109-86-4 - ethylene glycol methyl ether

110-49-6 - ethylene glycol monomethyl ether acetate

110-80-5 - 2-ethoxyethanol

111-15-9 - ethylene glycol monoethyl ether acetate

111-96-6 - bis (2-methoxy ethyl) ether

Long Chain Perfluorinated materials - (PFOS & PFOA)

UN Stockholm Convention listed POPs (Persistent Organic Pollutants)

<u>Class I Ozone Depleting Substances (ODS)</u> - Will not be used in any Intel application, including manufacturing processes, any refrigeration or fire suppression equipment. Class II ODS may not be used in the manufacturing process, or in refrigerant or coolant loops attached to new individual pieces of manufacturing equipment, due to the ban on such uses in the European Union (EU). Class II ODS may still be used as refrigerants in large facility chiller systems not located in the EU.

Discouraged

The use of materials with the following classifications are Strongly Discouraged from Use at Intel:

United Nations Global Harmonization Standard toxicological classifications:

GHS classified Carcinogens - Category 1 & 2

GHS classified Reproductive toxicants - Category 1 &2

GHS classified Mutagens, Category 1 & 2

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Note - Untested Mixtures containing substances aboveGHS Cutoff/threshold

REACH Regulation (EC) No 1907/2006 Annex XIV (Authorisation) and REACH Annex XVII (Restriction) listed substances

<u>Arsine</u> - use in manufacturing is limited to Safe Delivery Systems that meet the definition of Subatmospheric Gas Sources (SAGS) per NFPA 318, other delivery systems or use of pressurized arsine requires review by Intel.

<u>Articles</u> <u>Link</u>

Please refer to Intels Product Content Specification # 18-1201 for more specific details on regulated substances on Supplier.intel.com

https://supplier.intel.com/static/environment/product-compliance/index.htm

Definitions

Article - A manufactured item other than a fluid or particle (e.g. silicon wafers, process tools, etc.): (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g., minute or trace amounts of a hazardous chemical, and does not pose a physical hazard or health risk to employees.

Chemical - Any element, chemical compound, biological material, nanoparticle, or mixture of elements and/or compounds (e.g. photoresists, solvents, metal sputter targets, adsorbent, epoxies, fluxes, etc.).