SPARC – Responsible Chemistry

Revised 6/29/2023

This document details the supplier requirements for the Supply Chain Responsible Chemistry Program. Please read and understand the details below, which will help explain what needs to be done and why.

After implementation, there may be additional requirements to comply with this program. These may include regulatory updates, additional assessment or audit requests, actions required resulting from an audit/assessment, or any other requirement Intel deems necessary due to a change in the risk landscape.

Impacted suppliers & requirement.

1. **All Chemical Suppliers** – Read and understand (R&U) Intel's' Supplier's EHS specification validated by a confirmation back to Intel by the end of Q3.
2. **All High Volume Manufacturing (HVM) Chemical Suppliers** - Complete a supplier sustainability survey (S3) to be sent in Q1, due to complete by July 31st, 2023. This survey will include questions in the following areas: 1) Sustainability and chemical management systems, 2) Chemical regulatory compliance, and 3) Green Chemistry screening and alternative assessment execution.
3. **Equipment/Parts/Article Suppliers** – Complete a survey for equipment/parts/tools containing, or constructed from, regulated chemicals of concern (i.e., PFAS, PIP (3:1), REACh candidate substances, etc.) by July 31st, 2023. Suppliers will need to provide information regarding chemicals of concern within the products provided to Intel and provide details regarding their plans to phase out and/or report per the regulatory timelines. Please note that this survey is separate from the PIP (3:1) declaration sent in Q1'23.
4. **Selected Parts (ODM) Suppliers** – Complete the Clean Electronics Production Network (CEPN) Process Chemicals Data Collection (PCDC) tool for manufacturing process chemicals used to make parts. Note: Scope is for suppliers that use chemicals to make parts for Intel.

Detailed Requirements

1. **Intel Supplier's EHS Spec R&U** for all chemical and gas suppliers: All chemical and gas suppliers will receive the latest version of Intel Supplier's EHS Spec and complete R&U by end of Q3. The spec will be sent to all suppliers. Once each supplier read and understood the spec, please email a confirmation of R&U to Intel.supplier.assurance.communications@intel.com by the end of Q3 2023.

2. **Completion of Supplier Sustainability Survey (known as S3):** All in-scope HVM chemical and gas suppliers received an email with attached Macro-enabled Excel survey on March 6, 2023 to be complete by July 31, 2023. If you are assigned this deliverable but did not receive the survey, please contact intel.supplier.assurance.communications@intel.com. The survey consists of questions in the following areas: 1) Chemical (human health / environmental hazard), including questions about Green Chemistry screening / alternative assessment, 2) Management systems, 3) Water, 4) Waste / Circular Economy, 5) Energy and 6) Climate change. We have prepared a short training regarding the S3 intent and survey completion directions. The direct link to the training is:

S3 training. Green Chemistry screening and alternative assessment execution will be an extension of the existing green chemistry requirements since 2020. For 2023 all R&D and new HVM materials will be in scope to complete green chemistry screening and alternative assessments. The results of the survey will be scored and evaluated in Q3'23 in order to create customized supplier and/or commodity level goals and deliverables for 2024 and beyond to strengthen supplier's overall sustainability and help Intel achieve our sustainability RISE goals.

Note: Please complete Green Chemistry Screening and Alternative Assessment for **all NEW HVM and R&D** materials in 2023 (See below for how to complete and submit Green Chemistry Screening and Alternative assessment).

How to complete Green Chemistry Screening and Alternative Assessment:

Step 1: Use a **Green Chemistry Screening** tool as defined by your organizational procedure to assess if the chemical ingredients in your products contain known hazards. This step should be performed during your product R&D and formulation period.

> ***Green Chemistry Screening:***
> Suppliers are required to assess the inherent hazards of each ingredient using available green chemistry screening tool or methodology developed within your organization. Please specify which screening tool or methodology is used in your screening result as data source. If you need assistance in selecting a tool, contact Intel.supplier.assurance.communications@intel.com for additional guidance.

Step 2: Compare the results of your screening against **Intel's Green Chemistry Criteria** and identify high-risk ingredients. If there are no high-risk ingredients identified and/or the product is not classified as hazardous under GHS classification, no further action is required.

> ***Intel's Green Chemistry Criteria:***
> Consider alternatives if the following high-risk ingredients are identified:
> - GHS Categories 1 and 2 for Carcinogen, Mutagen, and Reproductive Toxin, and Acute/Chronic Toxicity and/or
> - Positive indicator for Environmental Persistence and Bioaccumulation
> - Please also refer to EU substances of very high concern (SVHC) and Candidate List of SVHC for authorization available at https://echa.europa.eu/
> - Endocrine disruptors and Neurotoxins (NEW addition in 2022)
> - PFAS (NEW addition in 2023)

Step 3: Perform **Alternative Assessments** to identify and evaluate alternatives for high-risk ingredients identified in Step 2. These assessments provide suppliers a consistent way to compare one chemical against another.

> ***Alterative Assessments:***
> After identifying high-risk ingredients by **Green Chemistry Screening**, suppliers are expected to perform Alternative Assessments to evaluate the possibility of more begin alternatives and compare inherent hazards against the high-risk ingredients. Alternative Assessments can prevent the selection of a regrettable substitution.

Step 4: Provide any actions taken as a result of the **Alternative Assessments** in Step 3. Please indicate if alternatives are implemented. If not, provide reasons why the alternatives were not implemented.

Step 5: Submit results of the **Green Chemistry Screening,** results of the **Alternative Assessment**, and any actions taken as a result of the **Alternative Assessment** in Supplier EHS IP Management System (SEIMS). The due date of the screening and alternative assessment will be contingent on the aligned technology ramp timeline for HVM materials. For new R&D materials, please upload the results of green chemistry screening and alternative assessment when creating a new SEIMS entry for Intel's R&D material evaluation.

Step 6: Select suppliers will also be contacted for chemical footprint reduction project collaboration in line with Intel's 2030 RISE goals. This will be by invitation only and focused on specific projects.

3. Tool/Equipment/Parts (aka Articles) Suppliers – Tools, equipment, and parts, broadly referred to as articles, are a new focus of chemical substance regulations. Every tool, item of equipment, and part must consider Substances in Articles Regulations to determine whether a regulated substance is present, and if so, that compliance is met. Examples of the better-known chemicals facing restriction include PFAS, PIP (3:1), and REACh candidate substances.

Requirement: Complete the 2023 Substances in Articles Contingency Plan Survey by July 31st, 2023. (The email link will be sent to supplier contacts on record.) This survey will gauge a supplier's readiness for expected Substance in Articles restrictions and what help is needed for timely compliance. While we understand and appreciate that not all questions may have fully developed responses by the deadline, we request our suppliers *begin early* to allow for sufficient internal discussion to ensure that your plans and gaps are clearly articulated.

Note: We look to partner with our valued suppliers in monitoring the regulatory landscape as a trigger for alternative investigations. We ask that our supply chain partners prioritize regulatory sensing and actively discuss this topic in ERMs/MRMs and other strategic discussions.

Please consider participating in related industry consortia. Intel and the semiconductor industry are actively positioning for regulatory exemptions to protect the supply chain's essential uses while also allowing time for activities aimed at increasing our sustainability, such as seeking new innovations and qualifications of restricted substances affecting articles.

4. For Suppliers Using Chemicals in Intel's Supply Chain (CEPN PCDC): Selected Suppliers Only

Step 1: Go to the CEPN's PROCESS CHEMICALS DATA COLLECTION TOOL website from Green America Center for Sustainability Solutions and download the latest version of the PCDC Tool.

Step 2: View any of the other resources, e.g. PCDC Tool Guidance (CN, EN, ES), Instructional Videos, or PCDC Tool Instruction Videos, for further help from the CEPN's PROCESS CHEMICALS DATA COLLECTION TOOL website.

There is also a Process Chemical Data Collection Tool (PCDC) training on RBA's E-Learning Academy.

Step 3: Complete the Excel spreadsheet with all process chemical data and information from scoped site(s) of your company, which would typically be any sites (and specifically production lines) your company owns or operates that produces products for Intel's supply chain.

Step 4: Submit the PCDC spreadsheet, when completed, to Intel.supplier.assurance.communication@intel.com by Q3'22.

Resources

Green Chemistry Resources_June_2023

Please refer to the Responsible Business Alliance (RBA) courses (available on the RBA E-Learning platform) or CEPN for additional resources.