

Control of Substances in Product from Supply Chain	
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Procedure

1.0 PURPOSE / SCOPE

This specification defines Goodrich's control of substances including restrictions and requirements for Product by the Goodrich supply chain.

This specification is not intended to be a listing of all environmentally related requirements that may be established by Goodrich's business units or by law. A Goodrich supplier's compliance with this specification does not relieve or diminish the supplier's obligation to comply with any other Goodrich product or process specification or its obligation to comply with all applicable laws.

The supplier shall provide accurate and complete Environmental, Health and Safety (EHS) information in order to comply with all applicable laws and regulations and to properly manage environmental issues through the supply chain. The supplier shall implement an Environmental Management System (EMS), which should be based on ISO 14001 or other similar standards to manage the environmental issues related to its activities.

2.0 REFERENCES:

Declarable Substances List, GRMA-002-SPEC
Goodrich Management System Manual, GRMA-001-POL

3.0 DEFINITIONS

Annex XIV - Annex XIV of REACH lists all substances, which are subject to authorization under REACH. The use and placing on the market for a use of substances listed on Annex XIV is prohibited from the "sunset" date unless an authorization has been granted for that use or unless an exemption applies.

Article 33 - Duty to communicate information on substances in articles. Producers, importers and other suppliers of articles containing substances on the candidate list may have to forward required information available to them down the supply chain (Article 33(1) and to consumers on request (Article 33(2)).`

Candidate list - The candidate list refers to the list of substances of very high concern (SVHC) from which the substances to be included in Annex XIV (list of substances subject to authorization) are selected.

"Product" - A Goodrich Product includes subassemblies, parts, materials, components, articles and packaging that are either sold to, acquired by, or delivered to or for any Goodrich facility by the supplier, including the supplier's sub tier suppliers.

GRMA-003-SPEC-00

Page 2 of 4

Declarable Substance List - The chemicals listed in the SAE declarable substances standard (AS9535).

Goodrich Banned Substances – Substances that must not be used in or during production of any GR Product, even if the substance is not legally banned. This restriction is in addition to and does not diminish the SBU's obligation to comply with all applicable laws and not use substances that are legally banned.

GR Suppliers/Supply Chain – Supplier means first tier and all sub-tier direct material suppliers

MSTC - Materials & Simulation Technical Center is one of three corporate R&D arms for Goodrich and is located in Brecksville, OH. AMA - Advanced Materials Applications Section is part of MSTC and serves as an enterprise-wide Materials & Process (M&P) support group.

3.0 RESPONSIBILITY**3.1 Management Responsibility**

Top management of each Segment, SBU, and Site are authorized to and responsible for the implementation of and compliance with this Procedure. Managerial and supervisory staffs shall be responsible for supporting implementation and compliance based upon their individual levels of authority and control.

4.0 REQUIREMENTS**4.1 Declarable Substances**

4.1.1 The substances are specified in GRMA-002-SPEC- Declarable Substance List

4.1.2 Suppliers are required to obtain approval from Goodrich prior to the replacement of any substance on the Declarable Substance List (GRMA-002-SPEC).

4.1.3 Suppliers are required to obtain approval from Goodrich prior to the introduction of any substance on the Declarable Substance List even if required by specification.

4.2 REACh Candidate List

4.2.1 The latest version of the Candidate List shall be reviewed regularly (at a minimum quarterly) by Goodrich Suppliers. Information about the Candidate List can be found at: – [Candidate List](#).

4.2.2 If Candidate List substances are present in products at level, > 0.1 wt% Supplier shall inform Goodrich as soon as possible pursuant to Annex 33.

4.2.3 Suppliers are required to obtain approval from Goodrich prior to the replacement of any substance on the Candidate List.

4.2.4 Suppliers are required to obtain approval from Goodrich prior to the introduction of any substance on the Candidate List, even if required by specification.

GRMA-003-SPEC-00

Page 3 of 4

4.3 REACH Annex XIV

- 4.3.1 Any substance appearing on Annex XIV should have been identified through the monitoring of the Candidate List. However, if a supplier supplies a Goodrich Product that contains a substance that appears on Annex XIV, then supplier must confirm to Goodrich that the substance and its use as an aerospace product is registered pursuant to the requirements of REACH. The approval for use of the substance will be application specific and for a limited, defined period of time.
- 4.3.2 Suppliers are required to obtain approval from Goodrich prior to the introduction of any substance Annex XIV even if required by specification. Information about Annex XIV can be found at: – [Annex XIV](#).

4.4 Engineered Nano-Materials

- 4.4.1 If supplier uses, or is aware of the presence and/or use of, any engineered nanomaterials in the manufacturing of product sold to GR, supplier must inform Goodrich, in writing, about the presence and type of such engineered nanomaterials at or prior to shipment of the product.

4.5 Goodrich Banned Materials

- 4.5.1 The supplier shall not perform any service nor deliver to Goodrich any Product which contains or which may form during its life cycle, under normal or reasonably foreseeable conditions of use, any of the Banned Substances as indicated in the following list:

4.5.1.1 Asbestos

4.6 Supplier Information and Verification

- 4.6.1 Documentation and test data that demonstrate specific actions by the supplier to verify compliance with the terms of this specification must be kept on file and made available upon request. This includes documentation and data from the supplier's supply chain. Upon request by Goodrich, the suppliers will verify compliance of parts, components, materials, articles or products using analytical testing or other suitable means approved by Goodrich. Supplier shall consult with Goodrich prior to destruction of any data related to Supplier's verification.
- 4.6.2 Analytical Testing: Where the measurement of materials content is made to verify compliance or is specifically requested by Goodrich, the supplier will use industry accepted test methodologies.
- 4.6.3 Goodrich reserves the right to further define the appropriate test methodologies and approve the test methods to be used by its suppliers.
- 4.6.4 Suppliers shall provide declarable substance content information within the Goodrich approved format.
- 4.6.5 When regional or country laws and ordinances exist that set prohibitions or restrictions on certain substances, the laws and ordinances must be observed, even though the substances are not clearly regulated in this specification.

4.2 Communication

GRMA-003-SPEC-00

Page 4 of 4

This Procedure will be located on the Pilgrim database with Quality, Technology, HMSC and EHS SharePoint links. It shall also be referenced in the Goodrich Management System Manual.

4.3 Continuous Improvement

Consistent with Corporate Continuous Improvement initiatives, this specification will be subject to continuous improvements as required. The Hazardous Materials Steering Committee is responsible for an annual review of this procedure.

5.0 PROCEDURE DOCUMENTATION, REVISION AND APPROVAL CONTROL**5.1 Revisions**

Changes to this Procedure are the responsibility of the Hazardous Materials Steering Committee, based on proposals/direction from corporate management with CEO approval.

5.2 Master Document Location

The master document for this Procedure will be located on the Pilgrim database with Quality, Technology, HMSC and EHS SharePoint links. It shall also be referenced in the Goodrich Management System Manual.

6.0 REVISION RECORD

Issue	Changes	Issue Date
000	Original Issue	December 12 2007
001	4.1 Change from Restricted Substances to Declarable Substances 4.3 Added "Information and" to Paragraph Name 4.3.4 Changed from "Suppliers will provide substance content information within a Goodrich approved format" to "Suppliers shall provide declarable substance content information within the Goodrich approved format"	November 05 2008
GRMA-003-SPEC-000	Convert and change format to align with the Goodrich Specifications and added nano-material requirements	August 10, 2010