[Organization logo]

[Organization name]

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PROCEDURE FOR PRODUCTION OF CHEMICAL PRODUCTS

Code:	
Version:	0.1
Created by:	
Approved by:	
Date of version:	
Signature:	
-	

Commented [9A2]: If you want to find out more about the product realization process, see:

article: ISO 9001:2015 clause 8.5 Product realization – Practical examples for compliance

http://advisera.com/9001academy/blog/2015/11/03/iso-90012015-clause-8-5-product-realization-practical-examples-for-compliance/

•free online course: ISO 9001 Foundations Course
http://training.advisera.com/course/iso-90012015-foundationscourse/

Commented [9A3]: Adapt to the existing practice in organization.

Distribution list

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Change history

Date	Version	Created by	Description of change
	0.1	9001Academy	Basic document outline

Table of contents

1.	PUR	POSE, SCOPE AND USERS	.3
2.	REFE	ERENCE DOCUMENTS	.3
3.	PRO	DUCT REALIZATION	.3
3	.1.	PRODUCT REALIZATION PLANNING	. 3
	3.1.1		
	3.1.2	2. Creating work order	4
3	.2.	PRODUCTION PROVISION REALIZATION	4
	3.2.1	1. Internal purchase and receipt of raw materials	4
	3.2.2	2. Production of plastic semi-product	4
	3.2.3	3. Reacting the raw materials	5
	3.2.4	4. Filtration	5
	3.2.5	5. Concentration	5
	3.2.6	6. Granulation	5
	3.2.7	7. Packaging and storing	5
	3.2.8	8. Identification and traceability	5
	3.2.9	9. Validation of production and service provision	5
	3.2.1	10. Customer property	6
	3.2.1	11. Control of changes	6
	3.2.1	12. Product release, delivery and activities after delivery	6
3	.3.	PRODUCT PRESERVATION	7
3	.4.	RESOLVING NON-CONFORMITIES	7
4.	MAN	NAGING RECORDS KEPT ON THE BASIS OF THIS DOCUMENT	.7
٠.			
5.	APP	ENDICES	.8

1. Purpose, scope and users

The purpose of this procedure is to describe the process of production of chemicals according to demanded quantity and deadlines, in line with the request for product quality, according to customer request.

The procedure is applied in realization of the production process.

Users of this document are persons responsible for the process of production in [organization name].

2. Reference documents

- ISO 9001:2015 standard clauses 8.5; 8.6
- Procedure for Document and Record Control
- Procedure for Competence, Training and Awareness
- Procedure for Purchasing and Evaluation of Suppliers
- Procedure for Design and Development
- Warehousing Procedure
- Procedure for Management of Nonconformities and Corrective Actions
- Procedure for Equipment Maintenance and Measuring Equipment
- [Working instruction manuals]

3. Product realization

3.1. Product realization planning

3.1.1. Making production plan

According to demand of products and volume of production in previous period, [CEO] together with [job title] creates [Production Plan].

[Production Plan] defines the following:

Procedure for Production of Chemical Products

• Availability of information that defines product characteristics

Defining resources for production and service provision

[job title] defines all resources needed for production, including human resources,

ver. [version] from [date]

Page 3 of 9

Commented [9A5]: List the names of instruction manuals used in this process.

Commented [9A6]: E.g. Production Manager

Commented [9A7]: E.g. Product Specification, law and regulatory requirements, instructions, catalogues, etc.

Commented [9A8]: Delete if there is no cyclic production.

Commented [9A9]: E.g. Customer Request, Project Task, etc.

Commented [9A10]: Delete if organization doesn't perform this type of production.

[Job title] creates the Quality Plan, which defines necessary activities of verification, monitoring, measuring, controlling and testing the product.

Availability of

[Job title] is responsible for

Usage of

[Job title] is responsible to ensure that all equipment is in operational condition and, on [job title]'s request, deliver evidence of execution of the Plan for Preventive Equipment

Maintenance and records of calibration and repairs of measuring equipment.

• Conducting measuring and monitoring

[Job title] must ensure availability of monitoring and measuring resources and define the method of the monitoring process and product and methods of sampling and measuring and enter them into the Quality Plan.

3.1.2. Creating work order

For each individual batch, [job title] creates [Work Order] which defines all activities to be executed during production, responsibility for each activity, deadline, as well as raw materials needed.

3.2. Production provision realization

Production is executed in controlled working conditions, which implies compliance with all technical

3.2.1. Internal purchase and receipt of raw materials

According to the Production Plan and Production Registry, [job title] makes internal purchase. After receipt of demanded raw materials, [job title] inspects

3.2.2. Production of plastic semi-product

Procedure for Production of Chemical Products ver. [version] from [date]

Page 4 of 9

Commented [9A11]: E.g. Production Manager

Commented [9A12]: Working instructions are needed for more complex activities that have precisely defined order of execution operations and/or appropriate measuring is needed. They can be in form of Quality Plans, Flowcharts, drawings, etc.

Commented [9A13]: E.g. Maintenance Operator

Commented [9A14]: E.g. Production Manager

Commented [9A15]: E.g. Head of maintenance department

Commented [9A16]: E.g. Production Manager, Technology

Commented [9A17]: Other records can be defined as addition to Quality Plan, e.g. records for monitoring temperature, pressure, humidity, etc.

Commented [9A18]: E.g. Production Plan, Customer Request, Project, etc.

Commented [9A19]: E.g. Production Manager

Commented [9A20]: Delete if clause 8.3 of ISO 9001:2015 is excluded.

Commented [9A21]: E.g. Warehouse Manager

Commented [9A22]: E.g. Production Manager

Commented [9A23]: E.g. Production Manager

Commented [9A24]: This refers to law and legal requirements.

Commented [9A25]: Adapt to organization practice.

[organization name]

[job title] receives the raw plastics in form of as granules, pellets, or powder. The raw plastic is then

3.2.3. Reacting the raw materials

Based on Product Specification, [job title] feeds the hopper with raw materials while [job title]

3.2.4. Filtration

[job title] pours the compound into a filter in order to remove any trace levels of catalyst. If the catalyst is not removed then

3.2.5. Concentration

The compound is heated under vacuum, which evaporates off some of the water, increasing the

3.2.6. Granulation

[job title] pours the compound on the one side and the seed granules on the other side into granulator which sprays molten working solution onto seed granules which are supported on a bed

[job title] oversees the removal of all

3.2.7. Packaging and storing

[job title] oversees the packaging process and in case of nonconformities apply Procedure for Managing Nonconformities and Corrective Actions. Once the product is finished [job title] sends it to warehouse for final products.

3.2.8. Identification and traceability

[Job title] must identify the product through the entire production process and define methods of identification and enter them in the Record of Traceability.

3.2.9. Validation of production and service provision

[Job title] must conduct validation of all processes of chemicals production where

• it is not possible to confirm

Commented [9A26]: Adapt to organization practice.

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Commented [9A30]: Adapt to organization practice.

Commented [9A31]: E.g. serial number, Working order ID, bar code, software ID, expiring date, production date, labeling, accounting documentation, etc.

Commented [9A32]: Or Production Registry.

Commented [9A33]: Delete if there are no processes that require validation; see Quality Manual.

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Procedure for Production of Chemical Products ver. [vers

ver. [version] from [date]

Page 5 of

[organization name]

It is not possible to conduct measurement, since product or service is being destroyed in the

Where appropriate, as part of validation, [job title] must determine:

- Criteria for review and approval of process

[Job title] creates records needed to provide evidence that realization processes and resulting products meet predefined requests.

3.2.10. Customer property

[Job title] is responsible for identification, verification, and protection of customer or external provider property that is given for use or implementation in a product. If customer or external provider property is

3.2.11. Control of changes

[job title] reviews and controls changes for production in order to ensure continuing conformity with the requirements and enters changes in the Production/Service Change Review Record.

3.2.12. Product release, delivery and activities after delivery

[Job title] is responsible for determining, at appropriate stages, by which degree the product requirements are met regarding Product Specification and customer requirements. If requirements are met,

[job title] ensures that the release of products and services to the customer will not proceed until

[Job title] defines the extent of post-delivery activities that are required, considering:

- Statutory and regulatory requirements

Commented [9A35]: This is entered in Quality Plan. Commented [9A36]: This is entered in Quality Plan.

Commented [9A37]: This is done when previous validation

Commented [9A38]: Adapt to organization.

Commented [9A39]: This can be deleted if organization doesn't use Customer Property. See Quality Manual.

Procedure for Production of Chemical Products ver. [version] from [date]

[organization name]

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- •
- •
- During servicing activities, [job title] is obligated to initiate correction of non-conformance using the

Procedure for Managing Nonconformities and Corrective Actions for

3.3. Product preservation

[Job title] is responsible for preservation of product during production and internal transport of product and/or assembly parts.

3.4. Resolving non-conformities

If a non-conformity of process or product occurs, the person who discovered the non-conformity notifies [job title], who acts according to the Procedure for Control of Non-Conforming Product.

4. Managing records kept on the basis of this document

		Storage			
Record name	Code	Retention time	Location	Protection	Responsibility
Product Specification	PR.10.1	2 years	[office of Production Manager]	Records are stored in file cabinet [describe name/location]	[job title]
Record of Product/Service Conformance	PR.10.2	2years	[office of Production Manager]	Records are stored in file cabinet [describe name/location]	[job title]

Procedure for Production of Chemical Products

ver. [version] from [date]

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Commented [9A40]: Adapt to organization's needs.

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Commented [9A42]: E.g. Production Manager

Commented [9A43]: E.g. Warehousing Manager

Commented [9A44]: E.g. Driver

Commented [9A45]: E.g. Shift Leader

Commented [9A47]: Adapt the information in this column to the normal practice in your company.

Commented [9A46]: Adapt the information in this column to the normal practice in your company.

Commented [9A48]: If the record is in electronic form, write the name of the folder on Production Manager computer.

Commented [9A49]: If the record is in electronic form, write the name of the folder on Production Manager computer.

		1			
				Records are	
			[office of	stored in file	
Quality Plan	PR.10.3	2years	Production	cabinet	[job title]
			Manager]	[describe	
				name/location]	
				Records are	
Notification to a			[office of	stored in file	
Customer about Changes	PR.10.4	2years	Production	cabinet	[job title]
on his Property			Manager]	[describe	
				name/location]	
				Records are	
			[office of	stored in file	
Record of Traceability	PR.10.5	2 years	Production	cabinet	[job title]
			Manager]	[describe	
				name/location	
				Records are	
D 1 11 10 1			[office of	stored in file	
Production/Service	PR.10.6	2 years	Production	cabinet	[job title]
Change Review Record			Manager]	[describe	
				name/location	
				Records are	
			[office of	stored in file	
Production Plan	PR.10.7	2 years	Production	cabinet	[job title]
			Manager]	[describe	[]
			manager 1	name/location	
				Records are	
			[office of	stored in file	
Production Registry	PR.10.8	2 years	Production	cabinet	[job title]
1 Todaetion Negistry	. 11.10.0	_ years	Manager]	[describe	Doputed
				name/location	
				name/location	
	1	1		1	

Commented [9A50]: If the record is in electronic form, write the name of the folder on Production Manager computer.

Commented [9A51]: This document is unnecessary if organization doesn't store and work with customer property.

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Commented [9A53]: If the record is in electronic form, write the name of the folder on Production Manager computer.

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5. Appendices

- Appendix 1 Product Specification
- Appendix 2 Record of Product/Service Conformance
- Appendix 3 Quality Plan
- Appendix 4 Notification to a Customer about Changes on his Property
- Appendix 5 Record of Traceability
- Appendix 6 Production/Service Change Review Record
- Appendix 7 Production Plan

Procedure for Production of Chemical Products

ver. [version] from [date]

Page 8 of

[organization name]		
 Appendix 8 – Production Registr 	y	
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Procedure for Production of Chemical Products	ver. [version] from [date]	Page 9 of 9

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