

Safety Data Sheet

according to Regulations 1907/2006/EC (REACH) and 2015/830/EU

REF: 740120.50

NucleoSpin RNA Plant and Fungi (50)

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Printing date: 15.11.2021

Date of issue: 08.04.2019

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

REF 740120.50
Product name NucleoSpin RNA Plant and Fungi (50)

REACH Registration number(s): see SECTION 3.1/3.2 or
A registration number for the substance(s) does not exist because the annual tonnage does not require registration or the substance or its use is excluded from registration.

1 x 45 mL PFB
1 x 30 mL PFL
1 x 5 mL PFR
1 x 30 mL PFW1
1 x 25 mL PFW2
1 x 13 mL H₂O (RNase free)

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

Product for analytical use.

Exposure Scenario Classification according REACH, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0

The exposure scenario is integrated into sections 1-16.

Uses advised against

not described

1.3 Details of the supplier of the safety data sheet

Manufactured by:

MACHEREY-NAGEL GmbH & Co. KG
Valenciennner Str. 11, 52355 Düren, GERMANY
Tel.: +49 2421 969 0

E-mail: sds@mn-net.com (msds@mn-net.com)

1.4 Emergency telephone number

Outside Germany (DE): Call your regional Poisons Information Service or call local Life Saving Service.
DE: Gemeinsames Giftinformationszentrum (GGIZ) 99089 Erfurt tel. +49 361 730 730

You find our current versions of SDS (22 languages) in Internet:

<http://www.mn-net.com/SDS>

SECTION 2: Hazard identification

2.0 Classification of the complete product



GHS07

Signal word WARNING

Hazard identification	Hazard classes/categories
H302	Acute Tox. 4 oral
H315	Skin Irrit. 2
H319	Eye Irrit. 2

2.1 Classification of the substance or mixture

45 mL PFB

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GHS07

Signal word

WARNING

Hazard identification

Hazard classes/categories

H302

Acute Tox. 4 oral

H315

Skin Irrit. 2

H319

Eye Irrit. 2

30 mL PFL



GHS07

Signal word

WARNING

Hazard identification

Hazard classes/categories

H302

Acute Tox. 4 oral

H319

Eye Irrit. 2

5 mL PFR

Signal word

Do not need labelling as hazardous

-

No hazard class

30 mL PFW1

Signal word

Do not need labelling as hazardous

-

No hazard class

25 mL PFW2

Signal word

Do not need labelling as hazardous

-

No hazard class

13 mL H₂O (RNase free)

Signal word

Do not need labelling as hazardous

-

No hazard class

2.2 Label elements

According **CLP directive** inner packages must be only labelled with GHS symbol(s) and product identifier(s) (EU 1272/2008 Annex I - 1.5.1.2).

Harmful chemicals/mixtures with signal word: **WARNING** must not be labelled with H and P phrases **until 125 mL** (EU 1272/2008 Annex I - 1.5.2).

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45 mL PFB



GHS07

Signal word: WARNING

30 mL PFL



GHS07

Signal word: WARNING

5 mL PFR

Do not need labelling as hazardous

Signal word: -

30 mL PFW1

Do not need labelling as hazardous

Signal word: -

25 mL PFW2

Do not need labelling as hazardous

Signal word: -

13 mL H₂O (RNase free)

Do not need labelling as hazardous

Signal word: -

2.3 Other hazards

Possible hazards from physicochemical properties

In the case of pH values are less than 5 or higher than 9 then it is irritant. ---

Information pertaining to particular risks to human and possible symptoms

Cause after oral intake, impairments of health when ingested in small quantities. ---

Information pertaining to particular risks to the environment

Other hazards

SECTION 3: Composition/information on ingredients

3.1 Substances or 3.2 Mixtures

45 mL PFB

Chemical: *lithium chloride*

CAS No.: 7447-41-8

Classification: H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H319, Eye Irrit. 2

Formula: LiCl

TSCA Inventory: listed

REACH Reg. No.: 01- 2119560574-35-xxxx

EC No.: 231-212-3

RTECS: OJ5950000

KE No.: KE-22552

Concentration: 40 - <70 %

acc. CLP (GHS): H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H319, Eye Irrit. 2

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30 mL PFL

Chemical: *guanidine hydrochloride* CAS No.: 50-01-1
 Classification: H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H319, Eye Irrit. 2
 Formula: CH_6ClN_3
 Pseudonym: guanidinium chloride
 TSCA Inventory: listed
 REACH Reg. No.: 01-2119977063-35-0005
 EC No.: 200-002-3 Indice No.: 607-148-00-0
 RTECS: MF4300000 MFCD: 00013026
 KE No.: KE-18111
 Concentration: 36 - <50 %
 acc. CLP (GHS): H302, Acute Tox. 4 oral, H319, Eye Irrit. 2

Chemical: *ethylenedinitrilo tetraacetic acid (EDTA)* CAS No.: 60-00-4
 Classification: H319, Eye Irrit. 2, H412, Aquatic Chronic 3
 Formula: $\text{C}_{10}\text{H}_{16}\text{N}_2\text{O}_8$
 Pseudonym: Edetic acid, Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-
 TSCA Inventory: listed
 REACH Reg. No.: 01-2119486399-18-xxxx
 RTECS: AH4025000 MFCD: 0003541
 KE No.: KE-13648
 Concentration: 1 - <10 %
 acc. CLP (GHS): The criteria for classification are not fulfilled.

Chemical: *chemicals/mixture < 2%* CAS No.: -
 Classification: No criteria for classification or naming of chemical not required.
 TSCA Inventory: all listed, <2%
 KE No.: listed
 Concentration: 1 - <2 %
 acc. CLP (GHS): The criteria for classification are not fulfilled.

5 mL PFR

Chemical: *sodium sulfite* CAS No.: 7757-83-7
 Classification: No criteria for classification or naming of chemical not required.
 Formula: Na_2SO_3 , E221
 Pseudonym: sulfurous acid, disodium salt
 TSCA Inventory: listed
 REACH Reg. No.: 01-2119537420-49-xxxx
 EC No.: 231-821-4
 RTECS: WE2150000
 KE No.: KE-31612
 Concentration: 10 - <20 %
 acc. CLP (GHS): The criteria for classification are not fulfilled.

30 mL PFW1

Chemical: *lithium chloride* CAS No.: 7447-41-8
 Classification: H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H319, Eye Irrit. 2
 Formula: LiCl
 TSCA Inventory: listed
 REACH Reg. No.: 01-2119560574-35-xxxx
 EC No.: 231-212-3
 RTECS: OJ5950000
 KE No.: KE-22552
 Concentration: 1 - <10 %
 acc. CLP (GHS): The criteria for classification are not fulfilled.

25 mL PFW2

Chemical: *chemicals/mixture < 1%* CAS No.: -
 Classification: No criteria for classification or naming of chemical not required.
 TSCA Inventory: all listed, <1%
 KE No.: listed
 Concentration: 0.1 - <1 %
 acc. CLP (GHS): The criteria for classification are not fulfilled.

13 mL H₂O (RNase free)

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Chemical: water

CAS No.: 7732-18-5

Classification:

No criteria for classification or naming of chemical not required.

Formula:

H₂O

TSCA Inventory:

listed

REACH Reg. No.:

exempt, Annex IV

EC No.:

231-791-2

RTECS:

ZC0110000

KE No.:

KE-35400

Concentration:

90 - <100 %

acc. CLP (GHS):

The criteria for classification are not fulfilled.

3.3 Remarks

When not listed, mixtures are added with water [CAS No. 7732-18-5] to 100%.

List of H and P phrases: see section 16.1

SECTION 4: First aid measures

4.1 Description of first aid measures

Place insured person out of danger zone to fresh air immediately. Ensure quiet, warmth, and provide resuscitation if necessary. If necessary contact medical advice.

4.1.1 After SKIN Contact

Remove contaminated clothing. Rinse the affected skin or mucous membrane thoroughly under running water. (If possible) use soap.

4.1.2 After EYE Contact

After contact with the eyes rinse thoroughly under running water with the eyelid wide open with eye washing bottle, eye douche or running water (protect intact eye).

4.1.3 After INHALATION of vapours

After inhalation of foam or vapour fresh air should be inhaled. Keep airways free. ---

4.1.4 After ORAL Intake

After oral intake lots of water should be drunk after it has been ingested. ---

4.2 Most important symptoms and effects, both acute and delayed

4.3 Indication of any immediate medical attention and special treatment needed

No additionally recommendations. ---

SECTION 5: Firefighting measures

5.1 Extinguishing media

Fire extinguishers appropriate to the fire classification, and, if applicable, a fire blanket must be available in a prominent location in the work area. All extinguishers like FOAM, WATER SPRAY, DRY POWDER, CARBON DIOXIDE can be used.

5.2 Special hazards arising from the substance or mixture

Formation of hazardous and caustic vapour-air mixtures possible. ---

5.3 Advice for firefighters

No, for listed product. Product package burns like paper or plastic.

5.4 Additional information

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapours. Regular staff training is necessary.

6.2 Environmental precautions

not necessary

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6.3 Methods and material for containment and cleaning up

Bind any escaping liquid with inert absorbent.
Collect small amounts of leaked liquid and flush with water into drains.

6.4 Reference to other sections

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling in accordance with the test instruction, that comes with the product.

7.2 Conditions for safe storage, including any incompatibilities

The original product package of MACHEREY-NAGEL allows a safe storage.

Storage class (VCI): 12

Water hazard class (DE): 2

7.2.1 Requirements for stock rooms and containers

Keep original product packages tightly closed during handling and storage.

7.3 Specific end use(s)

Product for analytical use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

45 mL PFB

Chemical: *lithium chloride*

CAS No.: 7447-41-8

DNEL: 73.2_{derm} mg/kg bw/d; 10_{inh} mg/m³

DNEL = Derived No-Effect Level (for workers)

PNEC_(fresh water): 1.2 mg/L

PNEC = Predicted No Effect Concentration

TRGS 900 (DE): 0.2 E mg/m³
E/e respirable

Short-term exposure factor: 1 (I), Y

skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

SUVA(CH) MAK value: [als Li][MAK] 0,2 e/[STEL] 0,2 e mg/m³

30 mL PFL

Chemical: *guanidine hydrochloride*

CAS No.: 50-01-1

DNEL: [inh] 3.5 mg/m³

DNEL = Derived No-Effect Level (for workers)

PNEC_(fresh water): -

PNEC = Predicted No Effect Concentration

NIOSH: not listed

[TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

OSHA: not listed

Chemical: *ethylenedinitrilo tetraacetic acid (EDTA)*

CAS No.: 60-00-4

DNEL: 1.5 mg/m³

DNEL = Derived No-Effect Level (for workers)

PNEC_(fresh water): 2.2 mg/L

PNEC = Predicted No Effect Concentration

Chemical: *chemicals/mixture < 2%*

CAS No.: -

5 mL PFR

Chemical: *sodium sulfite*

CAS No.: 7757-83-7

DNEL: 298_{inh} mg/m³

DNEL = Derived No-Effect Level (for workers)

TRGS 900 (DE): -

E/e respirable

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30 mL PFW1

Chemical: *lithium chloride*

CAS No.: 7447-41-8

DNEL: 73.2_{derm} mg/kg bw/d; 10_{inh} mg/m³

DNEL = Derived No-Effect Level (for workers)

PNEC_(fresh water): 1.2 mg/L

PNEC = Predicted No Effect Concentration

TRGS 900 (DE): 0.2 E mg/m³

E/e respirable

Short-term exposure factor: 1 (I), Y

skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

SUVA(CH) MAK value: [als Li][MAK] 0,2 e/[STEL] 0,2 e mg/m³

25 mL PFW2

Chemical: *chemicals/mixture < 1%*

CAS No.: -

13 mL H₂O (RNase free)

Chemical: *water*

CAS No.: 7732-18-5

8.2 Exposure controls

Good ventilation and extraction system in the room, floor resistant to chemicals with floor drainage and washing facilities. The highest level of cleanliness must be maintained at the workplace.

8.2.1 Respiratory protection

No additional recommendations.

8.2.2 Hand protection

Yes, gloves according EN 374 (permeation time >30 min - level 2), consist of PVC, natural latex, Neopren, or Nitril (f.ex. from Ansell or KCL). Use for short times chemical resistant latex gloves with code EN 374-3 level 1.

8.2.3 Eye protection

Yes, safety glasses according EN 166 with integrated side shields or wrap-around protection.

8.2.4 Skin protection

Not necessary.

8.2.5 Personal hygiene

Eating, drinking, smoking, taking snuff and storage of food in work areas and at outdoor workplaces is prohibited. Avoid contact with the skin, eyes and clothing. Rinse any clothing on which the substance has been spilled, and soak it in water. Wash hands thoroughly with soap and water when stopping work and before eating, and then apply protective skin cream.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

45 mL PFB

Appearance: liquid

Colour: colourless

Odor: odorless

30 mL PFL

Appearance: liquid

Colour: colourless

Odor: odorless

5 mL PFR

Appearance: liquid

Colour: colourless

Odor: sulfuric

30 mL PFW1

Appearance: liquid

Colour: colourless

Odor: odorless

25 mL PFW2

Appearance: liquid

Colour: colourless

Odor: odorless

pH:

7-8

Specific gravity:

1.00 g/cm³

13 mL H₂O (RNase free)

Appearance: liquid

Colour: colourless

Odor: odorless

pH:

6-8

Specific gravity:

1.0 g/cm³

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9.2 Other information

Data for the other parameters of the mixtures are not available, because no registration and no chemical safety report is required.

Relevant Properties of Substance Group

SECTION 10: Stability and reactivity

10.1 Reactivity

no further data available.

10.2 Chemical stability

No known instability.

10.3 Possibility of hazardous reactions

Note: Can form very reactive substances with oxidizing agents. No further data available.

10.4 Conditions to avoid

10.5 Incompatible materials

Avoid contact with strong acids or alkalines.

10.6 Hazardous decomposition products

In the original package all parts/all reagents are safety and separated stored. Decompositions are not observed during the expiration period under recommended conditions.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Following information is valid for pure substances. Quantitative data on the toxicity of this product are not available.

45 mL PFB

Chemical: *lithium chloride*

CAS No.: 7447-41-8

TSCA Inventory: listed

Korea Exist.Chem.Inventory: KE-22552

LD50_{orl rat}: 526 mg/kg

Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities.

30 mL PFL

Chemical: *guanidine hydrochloride*

CAS No.: 50-01-1

TSCA Inventory: listed

Australia NICNAS: not listed

California Proposition 65 List: not listed

Japan CSCL/PRTR: not listed, Japan PDSCL: not listed

Japan ISHL: not listed

South Korea TCCA: not listed

Korea Exist.Chem.Inventory: KE-18111

LD50_{orl rat}: 475-907 mg/kg

LC50_{ihl rat}: [4h] 3181-7655 µg/m³

LD50_{drm rbt}: 2000 mg/kg

Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities.

Chemical: *ethylenedinitrilo tetraacetic acid (EDTA)*

CAS No.: 60-00-4

TSCA Inventory: listed

Japan CSCL/PRTR: PRTR: ≥1,0% class I

Korea Exist.Chem.Inventory: KE-13648

LD50_{orl rat}: 2000-4500 mg/kg

Chemical: *chemicals/mixture < 2%*

CAS No.: -

TSCA Inventory: all listed, <2%

Korea Exist.Chem.Inventory: listed

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5 mL PFR

Chemical: *sodium sulfite*
TSCA Inventory: listed
Korea Exist.Chem.Inventory: KE-31612
LD50_{orl rat}: 2610 mg/kg
LC50_{ihl rat}: >5.5_{4h} mg/L

CAS No.: 7757-83-7

30 mL PFW1

Chemical: *lithium chloride*
TSCA Inventory: listed
Korea Exist.Chem.Inventory: KE-22552
LD50_{orl rat}: 526 mg/kg

CAS No.: 7447-41-8

25 mL PFW2

Chemical: *chemicals/mixture < 1%*
TSCA Inventory: all listed, <1%
Korea Exist.Chem.Inventory: listed

CAS No.: -

13 mL H₂O (RNase free)

Chemical: *water*
TSCA Inventory: listed
Korea Exist.Chem.Inventory: KE-35400

CAS No.: 7732-18-5

SECTION 12: Ecological information

12.1 Toxicity

Following information is valid for pure substances.

45 mL PFB

Chemical: *lithium chloride*
PNEC(fresh water): 1.2 mg/L
PNEC = Predicted No Effect Concentration
LC50_{fish/96h}: 158 mg/L
EC50_{daphnia/48h}: 249 mg/L
EC50_{pseudokirchneriella subcapitata/72h}: 400 mg/L
Water hazard class (DE): 1
Storage class (VCI): 12-13

CAS No.: 7447-41-8

30 mL PFL

Chemical: *guanidine hydrochloride*
PNEC(fresh water): -
PNEC = Predicted No Effect Concentration
LC50_{leuciscus idus/96h}: 1759 mg/L
LC50_{fish/96h}: [4d] 690-1850; [48h] 1758-2420 mg/L
EC50_{daphnia/48h}: 70.2 mg/L
EC10_{pseudomonas putida/16h}: [72h] 11.8-33.5 mg/L
Water hazard class (DE): 1 WGK No.: 0788
Storage class (VCI): 12

CAS No.: 50-01-1

Chemical: *ethylenedinitrilo tetraacetic acid (EDTA)*
PNEC(fresh water): 2.2 mg/L
PNEC = Predicted No Effect Concentration
LC50_{daphnia magna/48h}: [48h] 140 mg/L
LC50_{fish/96h}: [4d] 41-1592 mg/L
EC50_{daphnia/48h}: [24h] 480-790 mg/L
EC10_{pseudomonas putida/16h}: [72h] 2.77-1000 mg/L
Water hazard class (DE): 2
Dispersion coefficient_(octanol-water): -5.01-0.13
Storage class (VCI): 12-13

CAS No.: 60-00-4

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Chemical: *chemicals/mixture* < 2%
Water hazard class (DE): 1
Storage class (VCI): 12-13

CAS No.: -

5 mL PFR

Chemical: *sodium sulfite*
LC50_{fish/96h}: 315_{96h} mg/L
EC10_{pseudomonas putida/16h}: 260_{17h} mg/L
Water hazard class (DE): 1 WGK No.: 0282
Dispersion coefficient_(octanol-water): -4
Storage class (VCI): 12-13

CAS No.: 7757-83-7

30 mL PFW1

Chemical: *lithium chloride*
PNEC_(fresh water): 1.2 mg/L
PNEC = Predicted No Effect Concentration
LC50_{fish/96h}: 158 mg/L
EC50_{daphnia/48h}: 249 mg/L
EC50_{pseudokirchneriella subcapitata/72h}: 400 mg/L
Water hazard class (DE): 1
Storage class (VCI): 12-13

CAS No.: 7447-41-8

25 mL PFW2

Chemical: *chemicals/mixture* < 1%
Water hazard class (DE): 1
Storage class (VCI): 12-13

CAS No.: -

13 mL H₂O (RNase free)

Chemical: *water*

CAS No.: 7732-18-5

12.2 Persistence and degradability

not necessary

12.3 Bioaccumulative potential

not necessary

12.4 Mobility in soil

not necessary

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

no additional data available

SECTION 13: Disposal considerations

Please observe local regulations for collection and disposal of hazardous waste and contact waste disposal company, where you will obtain information on laboratory waste disposal (waste code number 16 05 06).

13.1 Waste treatment methods

Normally it is possible to empty small amounts (diluted!) into drains.

SECTION 14: Transport information

14.1 - 14.4: No dangerous goods according to the transport regulations

14.5 Environmental hazards

none, contains only small quantities of hazardous substances

14.6 Special precautions for user

not necessary

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

not applicable

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

German act governing protection from hazardous substances (Chemicals Act / Chemikaliengesetz- ChemG), revised on August 2013
German order governing protection from hazardous substances (Ordinance on Hazardous Substances / Gefahrstoffverordnung - GefStoffV), revised on November 2010, according to Directive 98/24/EC
TRGS 200, German engineering rules governing the classification and labelling of hazardous substances, preparations and products, updated October 2011
MN Leaflet/User manual, also see www.mn-net.com
Look for your country-specific regulations.

15.2 Chemical safety assessment

not necessary for these small amounts ---

SECTION 16: Other information

16.1 List of H and P phrases

16.1.1 List of relevant H phrases

H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.

16.1.2 List of relevant P phrases

P264W	Wash with water thoroughly after handling.
P280sh	Wear protective gloves/eye protection.
P301+312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P330	Rinse mouth.

16.2 Training advice

Regular safety training.

16.3 Recommended restriction on use

Only for professional user.
An individual package of this product or test kit has a moderate hazardous potential.

16.4 Further information

MACHEREY-NAGEL GmbH & Co. KG provides the information contained herein in good faith being up-to-date of own realizations at revision time. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose.
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16.5 Sources of key data

Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE COMPILATION OF SAFETY DATA SHEETS
Regulation 487/2013/EU, 4th adaptation of CLP regulation to technical and scientific progress
Regulation 669/2018/EU, 4th adaptation of CLP regulation to technical and scientific progress
Regulation 1480/2018/EU, 4th adaptation of CLP regulation to technical and scientific progress
Regulation 849/2021/EU, 4th adaptation of CLP regulation to technical and scientific progress
TRGS 900, German engineering rules governing limits in air at work, updated 03/2019
SUVA .CH, Limits in air at work 2009, revised on 01.2009
KÜHN, BIRETT Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances)

Revisions/Updates

Reason for Revision: 2016-03 Adaptation of regulation 1221/2015/EU
2017-11 Adaption of ECHA Registration dossier