



EOS GmbH Electro Optical Systems • Robert-Stirling-Ring 1 • D-82152 Krailling

PA 2200

Product code: 9012-0014 / 200000061

Regulatory Information

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Regulatory Information on PA 2200

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To whom it may concern

Dear Sir or Madam,

Please note that some of the information provided herein is based on information from raw material suppliers. For required certifications on raw material as well as sintered material e.g. biocompatibility tests we work together with accredited test laboratories / houses.

Relevant information regarding product stewardship and occupational safety and health can be obtained from the Safety Data Sheet. For material information please refer to our material datacenter, available at our website <https://eos.materialdatacenter.com/eo/standard/main/ds>. For Safety Data Sheets refer to the following website https://my.eos.info/?rq_Lang=en#{1} and download the required Safety Data Sheet.

Biocompatibility

All biocompatibility certificates have been checked for validity by an accredited test laboratory in October 2012. The conclusions and test results are still valid.

1. Biocompatibility - Parts made of recycled powder

Biocompatibility - In vitro Cytotoxicity Assay: Cell Growth Analysis via BCA-Staining with an Extract of PA 2200 reused powder (50% virgin + 50% recycled powder from EOSINT P System) (acc. to ISO 10993-1: 2009, "Evaluation and testing within a risk management process", ISO 10993-5: 2009, "Tests for in vitro cytotoxicity", ISO 10993-12: 2007, "Sample preparation and reference materials")

This is to confirm that the cytotoxic effects of PA 2200 reused powder (50% virgin + 50% recycled powder from EOSINT P System) were analyzed. Under the given conditions no leachable materials were released in cytotoxic concentrations from the test item.

Biocompatibility - Irritation Test (Intracutaneous Reactivity) with PA 2200 reused powder (50% virgin + 50% recycled powder from EOSINT P System) (acc. to ISO 10993-1: 2009, "Evaluation and testing within a risk management process", DIN EN ISO 10993-10:2007 (ISO 10993-10:2002 + Amendment 1:2006) "Tests for irritation and delayed-type hypersensitivity", ISO 10993-12:2007 "Sample preparation and reference materials")

This is to confirm that the intracutaneous injection of the polar extract of the test item to rabbits caused no signs of irritation compared to the injection sites of the reagent control. Very slight signs of irritation were found for the nonpolar extract as well as the nonpolar reagent control. The Primary Irritation Index (PII) for the nonpolar test item extract and the nonpolar reagent control was 0 (control corrected).

Biocompatibility - Test for Sensitization (Local Lymph Node Assay - LLNA) with PA 2200 reused powder (50% virgin + 50% recycled powder from EOSINT P System) (acc. to ISO 10993-1: 2009, "Evaluation and testing within a risk management process", DIN EN ISO 10993-10:2007 (ISO 10993-10:2002 + Amendment 1:2006) "Tests for irritation and delayed-type hypersensitivity", ISO 10993-12:2007 "Sample preparation and reference materials")

This is to confirm that under the conditions of the study it can be stated that the test item PA 2200 reused powder causes no reactions identified as sensitization, as the stimulation index was below 3.0 for each concentration tested.

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2. Regulation (EU) No 10/2011 on Plastic Materials and Articles intended to come into Contact with Food

The laser sintered test specimen PA 2200 have been investigated regarding overall migration (OML) and specific migration according (SML) to requirements on plastic materials which are intended to come into contact with food of [Regulation \(EU\) No 10/2011](#) (lastly amended by [Regulation \(EU\) No 202/2014](#)) as well as in [Regulation \(EC\) No 1935/2004](#), as amended and in accordance with §§ 30, 31 of the German Food and Consumer Good Act [LFGB](#). When used as specified, the overall migration as well as the specific migration does not exceed the legal limits.

The above mentioned samples are in compliance with the overall migration limit (OML) and specific migration limits (SML) of the used heat stabiliser and lauro lactam in contact with all kind of food (except alcoholic foods) at any long-term storage at room temperature and below including hot fill (e.g. 2 hours / 70°C or 15 min / 100°C).

Note:

Please be informed that the information within sections 1 to 2 is based on laboratory results, represents typical properties, and should not be construed as specifications. Fabrication conditions, part design, additives, process aids, finishing steps, and end use conditions all affect the performance and regulatory status of the end application. Due to variation in methods, conditions and equipment, no warranties or guarantees are made as to the suitability or accuracy of this information for use in any end application. It is the responsibility of the user and or medical manufacturer to determine that the product is safe, lawful, and technically suitable for the intended use.

3. Sulphur concentrations

This is to confirm that PA 2200 is made from monomers of technical purity. In addition we confirm that we don't use for the manufacturing of PA 2200 intentionally substances based on sulphur. Based on these conditions the occurrence of those substances can be excluded except negligible amounts on the level of natural / technical impurities.

4. Halogen concentrations

This is to confirm that PA 2200 is produced from monomers of technical purity. Additionally we confirm that for the manufacture of PA 2200 substances based on halogens aren't used. Based on these conditions the occurrence of those substances can be excluded except negligible amounts on the level of natural / technical impurities.

5. DRC (Democratic Republic of Congo) conflict free minerals (Section 1502 of U.S. Dodd Frank Act)

This is to confirm that for the manufacture of PA 2200 cassiterite, columbite-tantalite, gold, wolframite or their derivatives originated from the Democratic Republic of Congo or adjoining countries defined as Conflict Minerals is not used. Based on these conditions the occurrence of those substances can be excluded. (see <https://www.sec.gov/spotlight/dodd-frank/speccorpdisclosure.shtml>)

6. Directive 2005/84/EC relating to restrictions on the marketing and use of certain dangerous substances and preparations (phthalates in toys and childcare articles)

The [Directive 2005/84/EC](#) is no longer in force. Nevertheless, this is to confirm that we do not use intentionally di(2-ethyl hexyl) phthalate (DEHP), dibutyl phthalate (DBP), benzyl butyl phthalate (BBP), di-isononyl phthalate (DINP), diisodecyl phthalate (DIDP), and di-n-octyl phthalate (DNOP) in our recipe to produce PA 2200.



PA 2200 is made of monomers of technical purity not formulated with any phthalate plasticizers. Based on this the occurrence of the above listed phthalates can be excluded, except negligible amounts on the level of natural / technical impurities.

Please notice that our PA 2200 is not routinely analyzed for those substances listed above.

7. Directive 2011/65/EU on the Restriction of the Use of certain Hazardous Substances in Electrical and Electronic Equipment (RoHS II) including Directive (EU) 2015/863 (RoHS III) amending Annex II to Directive 2011/65/EU

This is to confirm that substances as mentioned in the following restricted by Directive 2011/65/EU (RoHS II) including Directive (EU) 2015/863 (RoHS III) explicitly are not intentionally used during the manufacturing process of PA 2200:

- Lead and its compounds
- Mercury and its compounds
- Cadmium and its compounds
- Chromium (VI) compounds
- Polybrominated Biphenyls (PBB)
- Polybrominated Diphenyl Ether (PBDE)
- Bis(2-ethylhexyl) phthalate (DEHP)
- Butyl benzyl phthalate (BBP)
- Dibutyl phthalate (DBP)
- Diisobutyl phthalate (DIBP)

PA 2200 is made of raw materials of technical purity. Consequently, to our best knowledge and based on the aforesaid, the occurrence of those substances restricted by [Directive 2011/65/EU](#) (RoHS II) including [Directive \(EU\) 2015/863](#) (RoHS III) can be excluded, except negligible amounts on the level of natural / technical impurities.

Please notice that our PA 2200 is not routinely analyzed for those substances listed above.

The official Statement of Compliance can be requested at the email address SAFETY_DATASHEET_RESPONSIBLE@eos.info.

8. Natural Rubber Latex

This is to confirm that we do not use intentionally natural rubber latex (as defined in [US 21 CFR 801.437\(b\)](#)) to produce PA 2200.

PA 2200 is made of raw materials of technical purity. Based on this the occurrence of natural rubber latex (as defined in US 21 CFR 801.437(b)) can be excluded, except negligible amounts on the level of natural / technical impurities.

9. PVC [Poly(vinyl chloride)]

This is to confirm that we do not use intentionally PVC [Poly(vinyl chloride)] to produce or formulate PA 2200.

PA 2200 is made of raw materials of technical purity. Based on this the occurrence of PVC [Poly(vinyl chloride)] can be excluded, except negligible amounts on the level of natural / technical impurities.

10. Halogenated Hydrocarbons (HOC)

This is to confirm that we do not use intentionally halogenated hydrocarbons (HOC) in our recipes to produce PA 2200.

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PA 2200 is made of raw materials of technical purity. Based on this the occurrence of halogenated hydrocarbons (HOC) can be excluded, except negligible amounts on the level of natural / technical impurities.

11. Persistent Organic Pollutants (POPs)

The [Regulation \(EC\) No 850/2004](#) is no longer in force. This regulation has been replaced by [Regulation \(EU\) 2019/1021](#). This is to confirm that PA 2200 is made of raw materials of technical purity. Based on this the occurrence of persistent organic pollutants as mentioned in the [Regulation \(EU\) 2019/1021](#) can be excluded, except negligible amounts on the level of natural / technical impurities.

12. California Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1986

This is to confirm that PA 2200 contains a chemical known to the State of California to cause cancer (see MSDS chapter 15). Additional information: <https://oehha.ca.gov/proposition-65/law/proposition-65-law-and-regulations>

13. Substances of Animal, Vegetable, and GMO Origin

This is to confirm that PA 2200 is not manufactured using intentionally any products of animal, marine, dairy, grape, vegetable, and / or GMO (Genetically Modified Organisms) origin. PA 2200 is made of raw materials of technical purity. Based on this the occurrence of substances of animal, marine, dairy, grape, vegetable, and / or GMO (Genetically Modified Organisms) origin can be excluded, except negligible amounts on the level of natural / technical impurities.

14. REACH (pre)-registration - REGULATION (EC) No 1907/2006 of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

This is to confirm that PA 2200 fully complies with the requirements of the European Chemicals Regulation (REACH).

15. Substances of Very High Concern (SVHC) - REGULATION (EC) No 1907/2006 of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

This is to confirm that based on our present best knowledge the occurrence of SVHC (Substances of Very High Concern) published in the "Candidate List" by ECHA under <https://echa.europa.eu/candidate-list-table> can be excluded, except for negligible quantities on the level of technical impurities below 0.1% (w/w).

16. Global Automotive Declarable Substance List, Edition 2022 (GADSL), revised February 1, 2022

This is to confirm that we do not use intentionally the below listed substances as mentioned in the GADSL (Global Automotive Declarable Substance List) in our receipts to produce or formulate PA 2200. The official reference for the GADSL, Edition 2022 can be downloaded from <http://www.gadsl.org/>.

In addition we confirm that the following substances are not intentionally used and / or added during the manufacturing process of PA 2200. Therefore the occurrence of following substances can be excluded, except negligible amounts on the level of natural / technical impurities.



Substance	CAS-No.
Amines (e.g. Diethanolamine) including tert. Amines	-
Ammonium Nitrate	6484-52-2
Asbestos	-
Bromoethane	-
1-Bromopropane	106-94-5
Complexing agent (e.g. EDTA, NTA, Citric acid)	-
Cyclic aliphatic bromide cluster (HBCD)	-
Dichloromethane	75-09-2
Dimethylfumarate (DMF)	624-49-7
1,4-Dioxin	290-67-5
1,2,5,6,9,10-Hexabromocyclododecane	3194-55-6
n-Hexane	-
4,4'-isopropylidenediphenol	80-05-7
Lithium Hydroxide	1310-65-2
N-Methylpyrrolidone	872-50-4
Perylene-3,4,9,10-tetracarboxydiimide	81-33-4
Silicone compounds	-
Surfactants (Tensides)	-
Tetrachloroethylene	127-18-4
Tetrachloromethane	56-23-5
Toluene	-
1,3,5-triazine-2,4,6-triamine	108-78-1
Trichloroethylene	79-01-6

Table 1: Additional substances

17. Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) on 20 January 2009, Table 3.2 in Annex VI to CLP

This is to confirm that PA 2200 doesn't contain substances that are addressed in the [Regulation \(EC\) No 1272/2008](#) and listed in table 3.2 of Annex VI.

18. End of Life Vehicles - Directive 2000/53/EC

The occurrence of the restricted substances by [Directive 2000/53/EC](#) can be excluded, except negligible amounts on the level of natural / technical impurities.

19. Polycyclic Aromatic Hydrocarbons (PAHs) - Directive 2005/69/EC, Polycyclic Aromatic Hydrocarbons - Regulation (EU) No 1272/2013 and Polycyclic Aromatic Hydrocarbons (PAHs) - EPA PAH 16

The [Directive 2005/69/EC](#) is no longer in force. The occurrence of the listed substances restricted by [Regulation \(EU\) No 1272/2013](#) and Polycyclic Aromatic Hydrocarbons - EPA PAH 16 can be excluded, except negligible amounts on the level of natural / technical impurities.

Substance	CAS-No.
Acenaphthene	83-32-9
Acenaphthylene	208-96-8
Anthracene	120-12-7
Benz[<i>a</i>]anthracene	56-55-3
Benzo[<i>b</i>]fluoranthene	205-99-2
Benzo[<i>k</i>]fluoranthene	207-08-9
Benzo[<i>ghi</i>]perylene	191-24-2
Benzo[<i>a</i>]pyrene	50-32-8
Chrysene	218-01-9

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Substance	CAS-No.
Dibenz[<i>a,h</i>]anthracene	53-70-3
Fluoranthene	206-44-0
Fluorene	86-73-7
Indeno[1,2,3- <i>cd</i>]pyrene	193-39-5
Naphthalene	91-20-3
Phenanthrene	85-01-8
Pyrene	129-00-0

Table 2: Substances regarding EPA PAH 16

20. Restriction on marketing and use of pentabromodiphenyl ether, octabromodiphenyl ether - Directive 2003/11/EC

The [Directive 2003/11/EC](#) is no longer in force. Nevertheless, the occurrence of pentabromodiphenyl ether and octabromodiphenyl ether can be excluded, except negligible amounts on the level of natural / technical impurities.

21. Restriction on marketing and use of perfluorooctane sulfonates (PFOS) - Directive 2006/122/EC

The [Directive 2006/122/EC](#) is no longer in force. Nevertheless, the occurrence of perfluorooctane sulfonates (PFOS) as mentioned in the [Directive 2006/122/EC](#) can be excluded, except negligible amounts on the level of natural / technical impurities.

22. Regulation (EU) No 517/2014 on fluorinated greenhouse gases

Ozone depleting substances listed in the [Regulation \(EU\) No 517/2014](#) within Annexes I and II as well as [Class I and Class II substances in section 602 of the Clean Air Act](#) (adoption of "The Montreal Protocol on Substances that Deplete the Ozone Layer") are not used in our recipe to produce PA 2200.

PA 2200 is made of raw materials of technical purity. Based on this the occurrence of ozone depleting substances can be excluded, except negligible amounts on the level of natural / technical impurities.

23. Regulation (EU) No 2017/227 amending Annex XVII to Regulation (EC) No 1907/2006 concerning REACH as regards bis(pentabromophenyl)ether

This is to confirm that bis(pentabromophenyl)ether (DecaBDE) is not intentionally used to produce PA 2200.

PA 2200 is made of raw materials of technical purity. Based on this the occurrence of DecaBDE as mentioned in [Regulation \(EU\) No 2017/227](#) can be excluded, except negligible amounts on the level of natural / technical impurities.

24. Absence of chromates

This is to confirm that we do not intentionally use chromates in our recipes during the manufacturing process of PA 2200.

PA 2200 is made of raw materials of technical purity. Based on this, the occurrence of chromates can be excluded, except negligible amounts on the level of natural / technical impurities. Please be informed that PA 2200 is not routinely analysed for chromates.

25. Carcinogenic, Mutagenic or Toxic for Reproduction (CMR) REACH CLP Annex VI

This is to confirm that we do not intentionally use CMR substances in our recipes during the manufacturing process of PA 2200.



PA 2200 is made of raw materials of technical purity. Based on this, the occurrence of CMR substances can be excluded, except negligible amounts on the level of natural / technical impurities. Please be informed that PA 2200 is not routinely analysed for CMR substances.

26. ECHA's Endocrine Disruptor (ED) assessment list as of August 18, 2022

We would like to confirm that we do not intentionally use the substances listed in <https://echa.europa.eu/de/ed-assessment> in our formulations during the manufacturing process of PA 2200.

PA 2200 is made from raw materials with technical purity. Based on this, the occurrence of the substances mentioned in <https://echa.europa.eu/de/ed-assessment> can be excluded, except for negligible amounts at the level of natural / technical impurities. Please note that PA 2200 is not routinely analysed for those substances.

27. Halal statement

Hereby we declare that all raw materials are of synthetic origin.

PA 2200 does not contain any ingredients of animal origin, including pork and pork derivatives.

PA 2200 does not contain ethanol. Ethanol is used only for a precipitation process. The mentioned ethanol is manufactured for industrial purposes and not for drinking or food use and is based on synthetic origin. The production facilities are free from liquor / khamr (intoxicants). No alcoholic beverages are produced in the same facilities.

PA 2200 does not contain human body parts nor blood.

28. Regulation (EU) 2017/821 laying down supply chain due diligence obligations for Union importers of tin, tantalum and tungsten, their ores, and gold originating from conflict-affected and high-risk areas

Hereby we declare that we do not intentionally use conflict minerals as defined by [Regulation \(EU\) 2017/821](#) in our recipes during the manufacturing process of PA 2200.

29. Using certain particularly dangerous substances, preparations and articles listed in Annexes 1 and 2 of Swiss Chemical Risk Reduction Ordinance, ORRChem during manufacturing process

Hereby we confirm with this declaration that we do not intentionally use substances that are listed in Annexes 1 and 2 of [Swiss Chemical Risk Reduction Ordinance](#), ORRChem during manufacturing process of PA 2200.

PA 2200 is made from raw materials with technical purity. Based on this, the occurrence of substances listed in Annexes 1 and 2 can be excluded, except for negligible amounts at the level of natural / technical impurities. Please note that PA 2200 is not routinely analysed for substances listed in Annexes 1 and 2.


30. Regulations of certain chemical substances and mixtures under section 6 of the Toxic Substance Control Act (TSCA)

We would like to confirm that we do not intentionally use substances like Methylene chloride, CAS# 75-09-2, DecaBDE, CAS# 1163-19-5, PIP (3:1), CAS# 68937-41-7, PCTP, CAS# 133-49-3, HCB, CAS# 87-68-3 and 2,4,6-TTBP, CAS# 732-26-3 ([see section 6 of TSCA](#)) in our formulations during the manufacturing process of PA 2200.



PA 2200 is made from raw materials with technical purity. Based on this, the occurrence of the above mentioned substances can be excluded, except for negligible amounts at the level of natural / technical impurities. Please note that PA 2200 is not routinely analysed for those substances.

Date: August 30, 2022


i.V. Dr. Volker Nagel

Head of Global Compliance


Thomas Tayarani

Regulatory Affairs Specialist

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Revision History

Version	Date	Author	Change Description
1.0	14-11-2012	T. Tayarani	Initial creation
2.0	08-07-2013	T. Tayarani	Document title changed to "Regulatory Information"; Global Automotive Declarable Substance List supplemented by Edition 2013 (GADSL), revised March 01, 2013
3.0	19-08-2014	T. Tayarani	Cross-checking data with SVHC candidate list dated 16-06-2014. None of the 155 listed substances are used within PA 2200.
4.0	06-07-2015	T. Tayarani	Cross-checking data with SVHC candidate list dated 15-06-2015. None of the 163 listed substances are used within PA 2200.
5.0	22-01-2016	T. Tayarani	Cross-checking data with SVHC candidate list dated 20-01-2016. None of the 168 listed substances are used within PA 2200.
6.0	13-09-2016	T. Tayarani	Cross-checking data with Global Automotive Declarable Substance List supplemented by Edition 2016 (GADSL), revised March 14, 2016, Version 1.1; additional cross-checking data with SVHC candidate list dated 20-06-2016. None of the 169 listed substances are used within PA 2200.
7.0	16-02-2017	T. Tayarani	Chapter 14, cross-checking data with safe drinking water and toxic enforcement act of 1986, updated on January 27, 2017. Chapter 18, updated information on GADSL list V1.0 Edition 2017, additional substances added to table 2. Cross-checking data with SVHC candidate list dated 12-01-2017, none of the 173 listed substances are used within PA 2200. Added chapters 20, 21, 22 and 23.
8.0	01-08-2017	T. Tayarani	Updated chapter 4. Added chapter 24. Cross-checking data with SVHC candidate list dated 07-07-2017, none of the 174 listed substances are used within PA 2200.
9.0	19-01-2018	T. Tayarani	Cross-checking data with SVHC candidate list dated 15-01-2018, none of the 181 listed substances are used within PA 2200.
10.0	12-07-2018	T. Tayarani	Added Directive (EU) 2015/863 (RoHS III) amending Annex II to Directive 2011/65/EU to section 9. Newly added section 25. Cross-checking data with SVHC candidate list dated 27-06-2018, none of the 191 listed substances are used within PA 2200.
11.0	27.09.2018	T. Tayarani	The former chapter 1 "Biocompatibility - Parts made of new powder" has been deleted because of the age of the test results including updated standards.
12.0	15-04-2019	T. Tayarani	USP testing results are no more valid. Cross-checking data with SVHC candidate list dated 15-01-2019, none of the 187 listed substances are used within PA 2200. Added section 24 absence of chromatates. Added the information for downloading Safety Data Sheets from the website https://mv.eos.info . Added notes regarding sections 1 and 2.
13.0	10.03.2021	T. Tayarani	Cross-checking data with SVHC candidate list dated 19-01-2021, none of the 211 listed substances are used within PA 2200. Updated chapter 16 to 2020 Edition. Added chapter 25 CMR.
14.0	29.08.2022	T. Tayarani	Cross-checking data with SVHC candidate list dated 10-06-2022, none of the 224 listed substances are used within PA 2200. Updated chapter 6: The Directive 2005/84/EC is no longer in force. Updated chapter 11: The Regulation (EC) No 850/2004 is no longer in force. This regulation has been replaced by Regulation (EU) 2019/1021 ; deleted table 1. Updated chapter 16: Table 2 changed to table 1. Updated chapter 19: The Directive 2005/69/EC is no longer in force. Deleted table 3. Table 4 changed to table 2. Updated chapter 20: The Directive 2003/11/EC is no longer in force. Updated chapter 21: The Directive 2006/122/EC is no longer in force. Updated chapter 22. Added new chapters 26, 27, 28, 29 and 30.