

SOLID CAUSTIC SODA MICROPEARLS

Anhydrous Sodium Hydroxide (NaOH) micropearls

These statements apply to Solid Caustic Soda Micropearls (Anhydrous Sodium Hydroxide Micropearls) manufactured at Tavaux (France).

Inovyn's caustic soda is derived from mineral chemistry brine electrolysis process and is intended for technical uses. It can not be assumed that the sodium hydroxide manufactured and supplied by Inovyn is satisfactory for all food or food related applications without the assessment by the user.

Allergens	In some manufacturing plants, using electrolysis with membrane cell technology, sodium (bi)sulphites are added intentionally during the brine treatment. (Bi)sulphites are totally transformed into sulphates by chlorine in the cells. Therefore the concentration of (bi)sulphite expressed as SO ₂ is expected to be less than 20 mg/kg. The other food allergens and their derivatives, as listed in the annex IIIa of the Directive 2000/13/EC as amended, are not expected to be present in INOVYN's Solid Caustic Soda Micropearls (Anhydrous Sodium Hydroxide Micropearls) because they are not added intentionally during the whole manufacturing process.
Animal Testing	INOVYN is a responsible company and conducts such tests as are necessary to ensure that we can give the best possible advice on the safe manufacture, handling and use of our products by our employees and those of our customers or processors. INOVYN has not specifically tested sodium hydroxide on animals and in particular, not since 31st December 1985. However many of INOVYN's products including Caustic Soda Liquor (Sodium Hydroxide) are used in a variety of applications, some of which require regulatory approvals that in turn necessitate toxicological testing. In the context of the European Regulation N°1223/2009, recast of the Cosmetic Products Directive 76/768/EEC and its subsequent amendments, a prohibition of animal testing for finished cosmetic products and for cosmetic ingredients was laid down since 2004 and 2009 respectively (testing ban).
BfR	Sodium hydroxide is listed under BfR Empfehlung XXXVI "Papiere, Kartons und Pappen für den Lebensmittelkontakt" and BfR Empfehlung XXXVI/2 "Papiere, Kartons und Pappen für Backzwecke". Therefore Solid Caustic Soda Micropearls (Anhydrous Sodium Hydroxide Micropearls) can be used in applications covered by above mentioned BfR provisions.
Carcinogenic, Mutagenic or toxic for the Reproduction (CMR)	Caustic Soda (Sodium Hydroxide) is not classified as CMR substance in Part 3 of Annex VI to Regulation N°1272/2008 as amended as Carcinogenic, Mutagenic or toxic for the Reproduction (CMR). Furthermore this kind of substances are not added intentionally during the whole manufacturing process of our Solid Caustic Soda Micropearls (Anhydrous Sodium Hydroxide Micropearls) therefore the presence of these substances is not expected.

Conflict Minerals	The raw materials used in the manufacture of Solid Caustic Soda Micropearls (Anhydrous Sodium Hydroxide Micropearls) are salt and water and are therefore not intended to include any of the following minerals: columbite- tantalite, cassiterite, gold, wolframite or their derivatives including tin, tantalum and tungsten. Moreover none of the raw materials used for the manufacture of Solid Caustic Soda Micropearls (Anhydrous Sodium Hydroxide Micropearls) are originating from sources outside of Europe.
Cosmetic Products	Solid Caustic Soda Micropearls does not contain any fragrance, nor does it contain any substance classified as CMR.
Drinking water	INOVYN's Solid Caustic Soda Micropearls (Anhydrous Sodium Hydroxide Micropearls) meets the purity criteria as defined in EN896:2012 "Chemicals used for the treatment of water intended for human consumption – Sodium Hydroxide".
Ecolabel Detergetns for Dish washer	None of the following substances/ingredients as listed in the Annex to Decision 2011/263/EU (phosphates, DTPA or diethylene triamine pentaacetic acid, perborates, EDTA or ethylenediamine tetraacetate, nitromusks, polycyclic musks, biocides and SVHC) are expected to be present in SOLID CAUSTIC SODA Micropearls because they are not added intentionally during the whole manufacturing process. Similarly the presence of reactive chlorine compounds is not expected in SOLID CAUSTIC SODA Micropearls.
Endocrine Disruptors	INOVYN's Solid Caustic Soda Micropearls (Anhydrous Sodium Hydroxide Micropearls) does not contain any of the 66 chemicals confirmed as category 1 endocrine disruptors in the European Commission's DG ENV commissioned report into the establishment of a priority list of substances for further evaluation of their role in endocrine disruption. http://ec.europa.eu/environment/chemicals/endocrine/strategy/substances_en.htm#priority_list
Food Contact Materials	<p>FOOD CONTACT EUROPE INOVYN's Solid Caustic Soda Micropearls (Anhydrous Sodium Hydroxide Micropearls) is listed under the Commission Regulation (EU) 10/2011 Annex 1 as authorised monomers, other starting substances, macromolecules obtained from microbial fermentation, additives and polymer production aids.</p> <p>FOOD CONTACT - USA Sodium hydroxide is listed in FDA Regulations 21CFR. Part 184 Direct Food Substances Affirmed As Generally Recognised as SAFE (GRAS) SubPart B – Listing of specific substances affirmed as GRAS 184.1763 – Sodium Hydroxide. Chemicals given GRAS in food affirmation may be used according to the following: Part 175 - INDIRECT FOOD ADDITIVES – Adhesives and Components of Coatings SubPart B - Substances for Use Only as Components of Adhesives 175.105 – Adhesive Subpart C--Substances for Use as Components of Coatings. 175.300 - Resinous and polymeric coatings.</p> <p>Part 176 - INDIRECT FOOD ADDITIVES: Paper and Paperboard Components Subpart B - Substances for Use Only as Components of Paper and Paperboard. 176.170 - Components of paper & paperboard in contact with aqueous and fatty foods. 176/180 - Components of paper and paperboard in contact with dry food.</p>

Part 177 - INDIRECT FOOD ADDITIVES – POLYMERS

Subpart B--Substances for Use as Basic Components of Single and Repeated Use Food Contact Surfaces. 177.1210 - Closures with sealing gaskets for food containers.

Subpart C--Substances for Use Only as Components of Articles Intended for Repeated Use 177.2600 - Rubber articles intended for repeated use

Food Status	<p>INOVYN's Solid Caustic Soda Micropearls (Anhydrous Sodium Hydroxide Micropearls) meets the purity criteria defined in Commission Regulation (EU) N° 231/2012 laying down specifications for food additives listed in Annexe II and III to regulation (EC) N° 1333/2008 (E524 Sodium Hydroxide).</p> <p>It cannot be assumed that Caustic Soda meeting the specification limits defined in the Commission Regulation (EU) N° 231/2012 is satisfactory for all food or food related applications without an assessment against appropriate regulations by the user. Sodium Hydroxide is not placed on the market as a food grade material; it is not produced at a registered food facility, nor is it manufactured to GMP or subject to HACCP assessment.</p>
Genetically Modified Organism	<p>INOVYN's Solid Caustic Soda Micropearls (Anhydrous Sodium Hydroxide Micropearls) is a synthetic mineral chemical substance that is free from Genetically Modified Organisms. No Genetically modified materials are used in the manufacture of our products.</p>
Halal	<p>INOVYN's Solid Caustic Soda Micropearls (Anhydrous Sodium Hydroxide Micropearls) is a synthetic mineral chemical substance manufactured by the electrolysis of sodium chloride solution. It is not derived from, nor does it contain any products of animal origin or ethyl alcohol. The manufacturing plant is dedicated to the manufacture of anhydrous caustic soda and no animal materials or ethyl alcohol is used when cleaning operations are conducted. Reference is made to some criteria as laid down in the General Guidelines CAC/CL 24-1997 for use of the term "Halal", issued by the Codex Alimentarius Commission.</p>
Ionising Radiation	<p>INOVYN's Solid Caustic Soda Micropearls (Anhydrous Sodium Hydroxide Micropearls) is not treated with ionising radiation.</p>
Kosher	<p>INOVYN's Solid Caustic Soda Micropearls (Anhydrous Sodium Hydroxide Micropearls) is a synthetic mineral chemical substance manufactured by the electrolysis of sodium chloride solution. It is not derived from, nor does not contain any animal or plant products including those derived from wheat, barley, spelt, rye or oats that are excluded from Kosher for Passover. None of the raw materials used in its manufacture are derived from animal or plant products. Our manufacturing plants are dedicated to the manufacture of caustic soda liquor and no animal or plant materials are used when cleaning operations are conducted.</p>
Metallic Catalysts	<p>INOVYN's Solid Caustic Soda Micropearls (Anhydrous Sodium Hydroxide Micropearls) are free of metallic catalysts since in the production process of Caustic Soda Liquor no metallic catalysts are used and in the subsequent process of evaporating water from Sodium Hydroxide Liquor to produce Solid Caustic Soda Micropearls no metallic catalysts are used either.</p>
Microorganisms	<p>The high pH property of Solid Caustic Soda Micropearls (Anhydrous Sodium Hydroxide Micropearls) does not make it a viable environment for bacteria and microorganisms.</p>

Mineral Origin	INOVYN's Solid Caustic Soda Micropearls (Anhydrous Sodium Hydroxide Micropearls) is a mineral chemical substance manufactured by electrolysis of sodium chloride solution. It is not derived from animal or plant origin and the presence of any animal or plant derived material (raw materials, reagents, additives) is excluded from the whole manufacturing process.
Nanomaterials	Nanomaterials and Nanotechnology (as defined according to Commission Recommendation 2011/696/EU) are not used in the production of Solid Caustic Soda Micropearls (Anhydrous Sodium Hydroxide Micropearls).
Pharmaceuticals ICH Q3D elemental impurities	Conform the International Conference of Harmonisation elemental impurities Q3D: none of the elements from class 1: As, Cd, Hg, Pb class 2a: Co, Ni, V class 2b: Ag, Au, Ir, Os, Pd, Pt, Rh, Ru, Tl class 3: Ba, Cr, Cu, Li, Mo, Sb, Sn are intentionally added in Solid Caustic Soda Micropearls. These elements are taken in to account in a risk assessment.
Residual solvents	No solvents are used in the manufacture of Solid Caustic Soda Micropearls (Anhydrous Sodium Hydroxide Micropearls). None of the solvents listed in the ICH Guidelines (residual solvents in medicinal products) are used or produced during the manufacture of Solid Caustic Soda Micropearls (Anhydrous Sodium Hydroxide Micropearls) supplied by Inovyn.
RoHS and WEEE	The RoHS and WEEE Directives restrict the maximum concentrations of certain hazardous substances in electrical and electronic equipment: Lead 0.1%, Polybrominated Biphenyls 0.1%, Mercury 0.1%, Polybrominated Diphenyl Ethers 0.1%, Hexavalent Chromium 0.1%, Cadmium 0.01%. Polybrominated biphenyls and polybrominated diphenyl ethers are not used in the production of Solid Caustic Soda Micropearls (Anhydrous Sodium Hydroxide Micropearls) nor are they produced as impurities during the manufacturing processes. The INOVYN plant at Tavaux (France) uses membrane cell technology to produce caustic soda, this is a mercury free process, Hg <0.01ppm (limit of detection).
SVHC	The candidate list of Substances of Very High Concern (SVHC) established in accordance with article 59(1) of the REACH Regulation relating to substances potentially subject to the authorization procedure is published on the ECHA website. Solid Caustic Soda Micropearls (Anhydrous Sodium Hydroxide Micropearls) is NOT included in this candidate list, nor is it listed in the recommendation lists of ECHA to be included in Annex XIV of REACH, nor is it included in this Annex XIV, nor does it contain intentionally substances included in these lists at a concentration level > 0.1%. http://echa.europa.eu/web/guest/candidate-list-table
TSE/BSE	INOVYN's Solid Caustic Soda Micropearls (Anhydrous Sodium Hydroxide Micropearls) is a synthetic mineral chemical manufactured by the electrolysis of sodium chloride solution. It is not derived from, nor does it contain, any products of animal origin. The manufacturing plants are dedicated to the manufacture of caustic soda liquor and no animal materials are used when cleaning operations are conducted.

Volatile Organic
Compounds (VOC)

Solid Caustic Soda Micropearls (Anhydrous Sodium Hydroxide Micropearls) is a synthetic mineral chemical manufactured by the electrolysis of sodium chloride solution. No volatile organic compound is added intentionally during the whole manufacturing process.

24 January 2018

To our present knowledge, the information contained herein is accurate as of the date of this document. However, we do not make any warranty, express or implied, or accept any liability in connection with this information or its use. We give also no warranty to the fitness of any product for a particular purpose. This information is for use by technically skilled persons at their own discretion and risk and does not relate to the use of this product in combination with any other substance or any other process. This is not a license under any patent or other proprietary right. The user alone must finally determine suitability of any information or material for any contemplated use, the manner of use in compliance with relevant legislations and whether any patents are infringed. We reserve our right to make additions, deletions, or modifications to the information at any time without prior notification.

INOVYN ChlorVinyls Limited
Runcorn Site HQ
South Parade
POBox 9
Runcorn
Cheshire WA7 4JE
United Kingdom

INOVYN Produzione Italia S.p.A.
Via Piave, 6
57013 Rosignano Solvay LI
Italia

INOVYN is a trademark, a property of INOVYN ChlorVinyls Limited.
For other Company trademarks please refer to our website.
www.inovyn.com