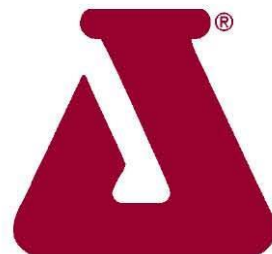


**JOST CHEMICAL CO.**

8150 LACKLAND ST. LOUIS, MO 63114 TEL. 314-428-4300 FAX 314-428-4366

[www.jostchemical.com](http://www.jostchemical.com)



# 2021 Product Certifications

## Jost Potassium Sulfate

Jost Chemical Co.  
8150 Lackland Road  
St. Louis, MO 63114 USA

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## Absence Declaration

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Jost Chemical does not utilize as a raw material, starting material, processing aid, or deliberately add to Potassium Sulfate the substances listed below. Jost Chemical does not specifically analyze Potassium Sulfate for these substances as there is no reason to believe that they would be present.

2,4,6-Tribromophenol (TBP)	Beta Lactams
2-Ethylhexanoic Acid (2-EHA)	Biocides
3-MCPD (3-monochloropropane-1,2-diol)	Bisphenol A
Acrylamide	Bisphenol A Compounds
Added salt	Bisphenol A Diglycidyl Ether (BADGE)
Added Sugar	Bisphenol F Diglycidyl Ether (BFDGE)
Alcohols	Brominated Flame Retardants (BFRs)
Amino Acids	Butter
Antibiotics	Butylated Hydroxyanisole (BHA)
Arachidic Fatty Acid	Butylated Hydroxytoluene (BHT)
Aromatic Amines	Butyric Fatty Acid
Artificial Colour from Azo Dyes	Caffeine
Artificial colours	Capric Fatty Acid
Artificial Flavors	Caprylic Fatty Acid
Artificial Sweeteners	Caramel
Asbestos	Carmine / cochineal
Aspartame	Carproic Fatty Acid
Azocolorants	Celery and products thereof
Barley / Derivatives	Cereals containing gluten and products thereof
Bee Pollen	Cetoleic Fatty Acid
Beef / Derivatives	Chicken / Derivatives
Behenic Fatty Acid	Chlorofluorocarbons (CFCs)
Benzo(a)pyrene	Cinnamon/ Extract
Benzoic Acid	Cocoa / Derivatives

Coconuts / Derivatives	Gondoic Fatty Acid
Colorants	Guaicol
Colors	Halons
Conflict Minerals	Heptadecenoic Fatty Acid
Coriander	Herbicides
Cotton Seeds	Hexabromocyclododecane (HBCD)
Cyclopentylmethylether	Histamine
Di-Acetyl	Honey
Diethylene Glycol	Hormones
Dimethyl Fumarate	HVP (Hydrolysed vegetable protein)
Dry Natural Rubber	Hydrochlorofluorocarbons (HCFCs)
Egg and products thereof	Insecticides
Emulsifiers	Kamut / Kamut Derivatives
Enzymes	Lamb / Mutton / Derivatives
Erucic Fatty Acid	Latex
Ethoxyquin	Lauric Fatty Acid
Fatty Acids	Leguminous Plants / pulses e.g. pea
Fish / Seafood and products thereof	Lignoceric Fatty Acid
Flavourings	Linoleic Fatty Acid
Formaldehyde	Long-chain (C9-20) perfluorocarboxylic acids (PFCAs), their salts, and their precursors
Fragrances	Lupin and products thereof
Fructose g	Malt Extract
Fruit / Derivatives	Maltodextrin
Garlic / Derivatives	Margaric Fatty Acid
Gelatin	Mechanically Recovered Meat
GLA Fatty Acid	Methylisothionate
Glucose	Methylnaphthalenes (including 4-methylnaphthalene)
Gluten	Methyltetrahydrofuran
Glycerine	Microbeads
Glycoalkoloids	

Milk and products thereof	Palmitoleic Fatty Acid
Mineral oil	Parabens
Molluscs and products thereof	Patulin
MSG (Monosodium glutamate) and other glutamates	Peaches
Mushroom	Peanuts and products thereof
Mustard and products thereof	Penicillin
Myristic Fatty Acid	Pentachlorophenol (PCP)
Myristol Fatty Acid	Pentadecanoic Fatty Acid
Natural colours	Pentadecenoic Fatty Acid
Natural Flavors	Perfluorinated tensides (PFTs)
Natural Rubber	Perfluorooctanoic acid (PFOA), its salts and precursors
Natural Rubber Latex	Pesticides
Nervonic Fatty Acid	Petroleum
Nitrosamine	Phenylalaline
Novalac Glycidyl Ether (NOGE)	Plasticizers (adipates, ESBO, Phthalates e.g. BBP, DBP, DEHP, DnHP, DIDP, DINP, DNOP)
Nucleotides	Polybrominated Biphenyl (PBB)
Nut oils / Derivatives	Polybrominated Diphenyl Ether (PBDE)
Nuts and products thereof	Polychlorinated bi- or terphenyls (PCB/PCT)
Oats / Derivatives	Polycyclic Aromatic Compounds (PACs)
Oils (refined, bleached, deodorized (rbd), cold pressed, hydrogenated, & partially hydrogenated)	Polycyclic aromatic hydrocarbons (PAH)
Oils of Seafood	Polydextrose
Oleic Fatty Acid	Polyols
Onion / Derivatives	Polyphenols
Organic Acids	Polyvinyl Chloride (PVC)
Other Animal Products / Derivatives	Poppy Seeds
Other Artificial Sweeteners	Pork / Derivatives
PAHs (benz[a]anthracene, chrysene, benzo[b]fluorantene and benzo[a]pyrene)	Potato / Derivatives
Palmitic Fatty Acid	Preservatives
	Quinine

Rennet	Tert-butanol
Rye / Derivatives	Tertiary Butylhydroquinone (TBHQ)
Seed Derivatives	Tetrabromobisphenol A (TBBPA)
Seed oil / other Vegetable oils (excl sesame)	Thiurams
Seeds and Seed Products	Tomatoes
Sesame and products thereof	Triglycerides
Sewage Sludge	TVP (Texturised vegetable protein)
Shellfish or Crustaceans and products thereof	Umbelliferae / Derivatives
Short-Chain Chlorinated Paraffins (SCCPs)	Vaccenic Fatty Acid
Sialic Acid	Vanilla
Silicone	Vanillin
Siloxanes (D3, D4, D5, D6)	Vegetables / Derivatives
Sodium laureth sulfate	Vinegars
Sodium lauryl sulfate	Vinyl Chloride
Soybeans and products thereof	Volatile Organic Compounds (VOCs)
Spelt/ Derivatives	Wheat / Derivatives
Sphingomyelin	Yeast / Extract (including autolyzed)
Sucrose	Yellow #5 (Tartrazine)
Sugars	Yellow #6 (Sunset Yellow)Silicone
Sulfa	

## Allergen Free Certification

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EU directive 1169/2011 annex II, FDA "Big Eight" Allergens & Others

Jost Chemical Co. herein certifies that Potassium Sulfate does not contain as an ingredient and is not manufactured on processing equipment that comes in contact with any of the commonly recognized allergens, including but not limited to the following: cereals containing gluten and products thereof, crustaceans and products thereof, eggs and products thereof, fish and products thereof, peanuts and products thereof, soybeans and products thereof, milk and products thereof (including lactose), nuts and products thereof, celery and products thereof, mustard and products thereof, sesame seeds and products thereof, sulfur dioxide and sulfites, lupin and products thereof, mollusks and products thereof, artificial flavors, monosodium glutamate, wheat,

buckwheat, animal derivatives, artificial colors, safflower, sesame, sunflower, cottonseed, poppy seed, rice, gelatin, soy, yeast, fruits and berries.

## Animal Testing Statement

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Jost Chemical does not perform, contract, or participate in animal testing with any of the Jost Chemical products manufactured by Jost Chemical or the raw materials used to manufacture Jost Chemical products.

## Bisphenol A (BPA) Free Certification

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BPA is not used as a raw material or as a packaging component in the manufacturing and packaging of Potassium Sulfate.

## BSE / TSE / Animal Derivative Free Certification

---

Jost Chemical Co. herein certifies that Potassium Sulfate is not manufactured from, or with, any type of animal product nor any derivative of an animal product. Additionally, the Jost Chemical Co. facilities do not inventory any animal products or derivatives of animal products. As such, Potassium Sulfate manufactured by Jost Chemical Co. should not be considered a vector for BSE or TSE.

## Business Continuity Statement

---

Jost Chemical Co. has developed a detailed Business Continuity Plan to obviate any disruptions in the supply chain. Although many of the details are proprietary, the following can be shared:

- Jost Chemical Co. has approved / qualified alternate raw material suppliers to ensure an uninterrupted raw material supply.
- The Jost Chemical Co. operations are not unionized, which eliminates disruption resultant from labor disputes.
- Jost Chemical Co. employees are cross-trained thereby ensuring continuation of employee coverage in the event of unforeseen workforce disruptions (e.g. absences resultant from a flu pandemic).
- Jost Chemical Co. has multiple, identical manufacturing trains that are fully interchangeable so production can proceed if a disruption impacts part of the manufacturing site.
- The Jost Chemical Co. manufacturing site consists of four buildings. Two of these buildings are utilized for manufacturing. If one of the manufacturing buildings is impacted the other is available for manufacturing.



- Jost Chemical Co. has access to outside warehousing both in the USA and the EU. Safety stock can be established in these warehouses if requested by the customer.

## Carcinogenic, Mutagenic & Reproductive Toxicity Certification

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Jost Chemical herein certifies that Potassium Sulfate does not contain any of the carcinogens, mutagens, or toxic for reproduction (CMR) substances referenced in Annex II of Council Directive 76/769/EEC.

## Composition Statement

---

Jost Chemical's Potassium Sulfate is a pure compound containing only Potassium Sulfate. It does not contain any additives, carriers, excipients, flow conditioners, anti-caking agents, bulking agents, preservatives, anti-oxidants, flavorings, colorings, or additional ingredients of any type.

## Contaminants Statement

---

Based on a knowledge of the raw materials used in manufacturing and a detailed understanding of the manufacturing process, Jost Chemical's Potassium Sulfate should not be considered at risk for contamination with 3-MCPD (3-monochloropropane-1,2-diol or 3-chloropropane-1,2-diol) or any other chloropropanols.

## Continuing Guarantee

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Jost Chemical hereby guarantees each shipment or delivery of Potassium Sulfate is not adulterated or misbranded within the meaning of the Federal Food, Drug, and Cosmetic Act and is not an article which may not, under the provisions of sections 404 or 505 of the Act, be introduced into interstate commerce and to be not adulterated or misbranded within the meaning of the statutes of any state of the United States in which the definition of adulteration and misbranding are substantially the same as set forth under the Federal Food, Drug, and Cosmetic Act. This guarantee shall apply to all shipments or other deliveries of the above indicated product, until revoked in writing.

## Country of Origin Certification

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Jost Chemical Co. herein certifies that Jost Potassium Sulfate is manufactured at the Jost Chemical Co. site located in St. Louis, Missouri, USA.

## Cross Contamination Statement

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Jost Chemical implements a fully validated cleaning procedure to facilitate contamination prevention. The use of labels and isolated packaging suites equipped with dedicated air handling units further aid in keeping all material in its intended location.

## Debarment Statement

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Jost Chemical herein certifies that neither the Company nor any person employed by Jost Chemical has been convicted of any crime described in Section 306(a) and (b) of the Generic Drug Enforcement act of 1992. Jost Chemical does not, has not, and will not, use the services of any person debarred under Sections 306(a) or (b).

## Dioxin & Polychlorinated Biphenyl (PCB) Free Certification

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Jost Chemical's Potassium Sulfate is manufactured using high purity raw materials. Potassium Sulfate is not routinely tested for dioxins or PCBs. However, based on a detailed knowledge of the raw materials and processing conditions, dioxins and PCBs contamination is not considered a significant risk.

## Environmental / Temperature Monitoring

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All Jost products are manufactured and stored at ambient temperature. Due to the inherently stable nature of our products, temperature and humidity monitoring are not required.

## FDA Audit Status / Registration & Bioterrorism

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It is hereby certified that the Jost Chemical Co. facilities listed below are U.S. FDA registered as "Bulk Drug/API" manufacturing facilities and are subject to unannounced FDA current Good Manufacturing Practices (cGMP) compliance inspections on a regular basis.

**Manufacturing Plant:** Jost Chemical Co.

**Manufacturing Site Location:** 8110 / 8130 / 8150 / 8190 Lackland Rd., St. Louis, MO 63114, USA

**Jost Chemical FDA Drug Firm FEI:** 3001239108

**Data Universal Numbering System Number:** 147882294

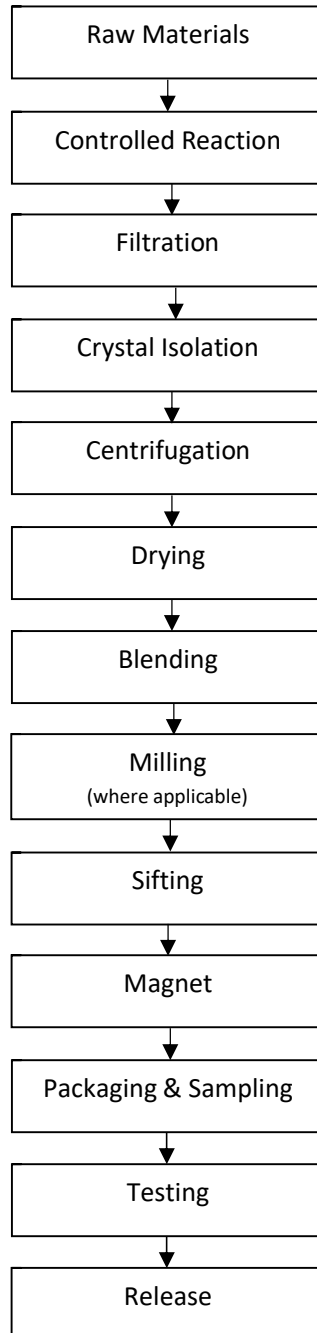
**Bioterrorism Number:** 11389416366

Most Recent FDA Audit: January 2018

Audit Result: No 483s issued.

## Flow Chart

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## Food Grade Certification

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Jost Chemical Co. herein certifies that Potassium Sulfate under compendia titles (where applicable) USP, EP, BP, JP, FCC, NF, and Purified is Food Grade given that it is manufactured according to the principles and requirements of cGMPs and meets its defined microbiological requirements listed on the applicable Certificate of Analysis.

## Gluten Free Certification

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Jost Chemical Co. herein certifies that Potassium Sulfate does not contain as an ingredient and is not manufactured on processing equipment that comes in contact with gluten or products containing gluten.

## GMO Statement

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Jost Chemical Co. herein certifies that Potassium Sulfate is manufactured without the use of genetically modified organisms and without the use of raw materials or processing aids containing or derived from genetically modified material.

As such, Jost Chemical's Potassium Sulfate should be considered non-Genetically Modified. This position is consistent with the directives outlined in EC 1830/2003 and EC 1829/2003.

Implemented January 1, 2020, the National Bioengineered Food Disclosure Standard requires manufacturers to disclose information about bioengineered food or bioengineered food ingredients, where bioengineered is defined as containing detectable genetic material that has been modified through lab techniques and may not be created through conventional breeding or found in nature. Jost Chemical's Potassium Sulfate does not use any bioengineered ingredients and as such, the standard is not applicable.

## Halal Certification

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Please click the following link to Jost Chemical Co.'s website for the certificate: [Halal Certification](#)

## Heat Treated Pallets Certification

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Please be advised that Jost Chemical does not use chemically treated wood pallets. Jost Chemical pallets are heat-treated (HT) pallets bearing the IPPC logo. The IPPC heat-treatment or "HT" designation is clearly visible on the exterior of the pallets.



8150 Lackland Rd. St. Louis, MO 63114  
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## Jost Potassium Sulfate

Jost Chemical wood pallets are purchased new and are stored indoors at Jost Chemical. The pallets are manufactured in the USA from USA hardwoods.

### Homogeneity Statement

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Jost Chemical hereby confirms that each lot is tested and released per our product specifications. Homogeneity is guaranteed by a validated blending procedure and associated testing.

### Ingredient Certification / Composition Statement

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Jost Chemical Co. herein certifies that Jost Potassium Sulfate, contains only Potassium Sulfate and no additional ingredients, additives, carrier, preservatives, or excipients.

### Kosher Certification

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Please click the following link to Jost Chemical Co.'s website for the certificate: [Kosher Certification](#)

### Latex Free Statement

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Jost Chemical Company does not warehouse, manufacture, or use latex in the manufacturing and packaging processes of Jost Chemical Products. Jost Chemical products are considered latex free.

### Lot Number Explanation

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Key:

First four digits = product and grade

Fifth digit = last digit of production year

Sixth, seventh, and eighth digits = consecutive lot produced in year indicated

Example: Lot 25603018

2560 = a Jost product code

3 = product produced in 2013

018 = the eighteenth lot of product code 2560 produced in 2013

Definitions: A “batch” is a discreet chemical reaction process. A “lot” is a uniform blend of multiple batches. The blending process has been validated for uniformity.

## Melamine Free Statement

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Potassium Sulfate is not a source for protein, thus it is not considered “at risk” for intentional adulteration with melamine.

## Metal Reagent / Metal Catalyst Statement

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Jost Chemical’s Potassium Sulfate does not utilize a metal reagent and metal catalysts are not used in the production of finished goods at Jost Chemical.

## Nanomaterial Statement

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Jost Chemical does not employ the use of nanomaterials or nanotechnology in the manufacture of Jost Chemical finished products.

## Nitrosamine Statement

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Based on the knowledge of the raw materials and process used in the production of Potassium Sulfate, there is no reason to believe that nitrosamine impurities are present in the Potassium Sulfate produced by Jost Chemical.

## Non-Irradiation / ETO Statement

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Jost Chemical’s Potassium Sulfate has not been irradiated per 7 CFR 205.105(f) requirements with the understanding that “irradiation” shall be defined as outlined in 21 CFR 179.26.

Jost Chemical’s Potassium Sulfate has not been treated with ETO (ethylene oxide) nor any other chemical sterilizing agent.

## Nutritional Certificate<sup>1</sup>

Total Fat	Not a dietary source
Saturated Fat	Not a dietary source
Trans Fat	Not a dietary source
Cholesterol	Not a dietary source
Total Carbohydrates (Digestible by difference)	Not a dietary source
Dietary Fiber	Not a dietary source
Added Sugars	Not a dietary source
Protein	Not a dietary source
Vitamin A	Not a dietary source
Thiamin	Not a dietary source
Riboflavin	Not a dietary source
Niacin	Not a dietary source
Vitamin C	Not a dietary source
Vitamin D	Not a dietary source
Calcium	Not a dietary source
Iron	Not a dietary source
Potassium	44,400 mg / 100 grams
Copper	Not a dietary source
Phosphorus	Not a dietary source
Magnesium	Not a dietary source
Manganese	Not a dietary source
Sodium	Not a dietary source
Strontium	Not a dietary source
Zinc	Not a dietary source
Calories	Not a dietary source
1. The above values should be considered typical nutritional values. Refer to the Certificate of Analysis for applicable lot specific analytical values. Nutritional values apply solely to USP, EP, BP, JP, FCC, NF, & Purified Grades where applicable.	

## Organic Compatibility Statement

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**Non-Irradiated:** See Non-Irradiation Statement herein.

**No Sewage Sludge:** Jost Chemical's Potassium Sulfate has not come into contact with sewage sludge per the requirements of 7 CFR 205.105(g).

**Non-GMO:** See GMO Statement herein.

## Packaging Certification

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Herein contains information concerning packaging used in the manufacturing of Jost Chemical's finished goods.

- The poly liners used are manufactured from virgin, FDA-approved, polyethylene that does not contain slip additives.
- The poly liners are not produced from materials engineered by nanotechnology.
- Per 21 CFR 177.1520, (c), 2.1, these liners are approved for use in the United States as an article or component of an article intended for use in contact with food, subject to the specific limitation that it may contact food only at temperatures of 212F and below.
- The primary packaging used complies with Regulations (EC) No. 1935/2004 of the European Parliament and of the council of 27 October 2004 on materials and articles intended to come into contact with food, Commission Regulation (EU) No. 10/2011 of 14 January 2011 on plastic materials and articles intended to come into contact with food, and Commission Regulation (EC) No. 2023/2006 of 22 December 2006 on good manufacturing practice for materials and articles intended to come into contact with food.

## Pesticide & Aflatoxin Free Certification

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None of the raw materials used are agricultural products and none are treated with pesticides. Therefore, Potassium Sulfate is not routinely tested for pesticides or aflatoxins. Based on a detailed knowledge of the raw materials and processing conditions, pesticide and aflatoxin contamination is not considered a significant risk.

## Phthalate Free Certification

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Jost Chemical products and packaging used for said products are not manufactured using phthalates, and do not contain phthalates. This includes, but is not limited to, the following: DEHP, DINP, DNOP, DIDP, DBP, and BBP.



## Proposition 65

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Jost Chemical does not contribute and is not the source of any Proposition 65 listed chemicals. The presence of any Prop 65 listed chemicals is due solely to the presence of the chemicals contained in raw materials used to manufacture a Jost Chemical finished product.

The California Office of Environmental Health Hazard Assessment (O.E.H.H.A.) of the California Environmental Protection Agency is the lead agency for Prop 65 implementation. The OEHHA website states the following:

*“It should be noted that under Proposition 65, there are no acceptable concentrations established for any prop 65 listed chemical in any given product. An exposure that causes a significant risk of harm from a listed chemical through the use of a product would trigger the warning requirement, not merely the fact that a listed chemical is present in a product.”*

## Purity Statement

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Jost Chemical's Potassium Sulfate is a pure compound containing only Potassium Sulfate. It does not contain any other additional ingredients of any type.

## Quaternary Ammonium Compounds Statement

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Jost Chemical Co. products and packaging do not come into contact with Quaternary Ammonium Compounds.

## Residual Solvent Certification

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Jost Chemical Co. herein certifies that no organic solvents are used in the manufacture of Jost Potassium Sulfate.

Additionally, based on a knowledge of the raw materials, the manufacturing process and the controlled handling, shipping and storage of said product, there is no significant potential for any of the ICH Q3C Class 1, Class 2 or Class 3 solvents or any other organic solvents to be present. If tested, Jost Potassium Sulfate will comply with the USP <467>.

## Safety Data Sheet (SDS)

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Please select the following link: [SDS - English \(US\)](#) [SDS - English \(EN\)](#)  
[SDS - German \(DE\)](#) [SDS - French \(FR\)](#) [SDS - Belgian \(BE\)](#)  
[SDS - Spanish \(ES\)](#) [SDS - Polish \(PL\)](#) [SDS - Italian \(IT\)](#)

## Specification / Product Sheet

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Please click the following link to Jost Chemical Co.'s website: [Potassium Products](#)

## Stability & Storage Certification

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Based on real-time stability studies, Jost Chemical recommends retesting Potassium Sulfate three years from the labeled Date of Manufacture to ensure ongoing specification compliance. Three years from the Date of Manufacture represents a "Retest Date" and not an "Expiration Date".

Store Jost Chemical Potassium Sulfate in a clean dry warehouse in the original unopened Jost Chemical packaging.

## Substances of Very High Concern Statement

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Jost Chemical's Potassium Sulfate does not contain Substances of Very High Concern (SVHCs) from the ECHA Candidate List as an intentional or unintentional constituent at  $\geq 0.1\%$ .

## Synthetically Produced Certification

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Jost Chemical's Potassium Sulfate is manufactured by chemical synthesis. Due to the nature of the Jost Chemical proprietary production process (full chemical reaction), Jost Potassium Sulfate should be considered as synthetic material manufactured by Jost Chemical Co. in St. Louis, MO USA.

## Tariff Code

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2833.40.6010

## Traceability Statement

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The Jost Chemical BPRs (Batch Production Records) allow for full traceability to raw materials used in manufacturing all finished lots, equipment used for manufacturing all finished lots, personnel responsible for manufacturing all finished lots, in-process lots, and controls for all finished lots and in-process testing results for all finished lots. The production records permit traceability to equipment usage. The laboratory records allow for all traceability to all testing activities. The cleaning records allow for traceability to all cleaning activities. The shipping and distribution records allow for full traceability to the “ship-to” location for every container comprising all finished lots. All of the above allows for full backwards and forward traceability. Jost Chemical performs mock recalls on a regular basis (2 times per year) and has repeatedly demonstrated full backwards and forwards traceability.

## Vegan & Vegetarian Certification

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Jost Chemical’s Potassium Sulfate is suitable for vegetarians and vegans.

## WADA Certification

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Jost Chemical herein certifies that Jost Chemical products are manufactured without any substances listed in the 2021 WADA (World Anti-Doping Agency) Prohibited List.

Additionally, no 2021 WADA Prohibited List substance is used as a processing aid in the manufacturing of any Jost Chemical product. None of the 2021 WADA Prohibited List substances comes into contact with any Jost manufacturing equipment and none of these Prohibited List substances are warehoused by Jost Chemical.

All Jost Chemical products comply with the 2021 WADA Prohibited List.

## Water Source Statement

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Jost Chemical’s source water is potable city water supplied by the City of St. Louis Water Division. This source water complies with all local, state, and federal regulations.



8150 Lackland Rd. St. Louis, MO 63114  
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## Jost Potassium Sulfate

Sincerely,

A handwritten signature in black ink that reads 'Michael Niehoff'. The signature is written in a cursive style with a large, sweeping 'M' and 'N'.

Michael Niehoff  
Quality Assurance Specialist  
Jost Chemical Co.

<b>REVISION HISTORY</b>			
<b>VERSION NUMBER</b>	<b>REVISION DATE</b>	<b>REVISED BY</b>	<b>REVISIONS</b>
1	08/13/2018	Joel Kruse	Original
2	02/25/2020	Michael Niehoff	Updated WADA Certification section to indicate compliance with the 2020 WADA list, added additional substances to Absence Declaration section
3	01/21/2021	Michael Niehoff	Added Nitrosamine Statement, added section concerning the National Bioengineered Food Disclosure Standard to GMO Statement, updated WADA Certification to refer to 2021 Prohibited List