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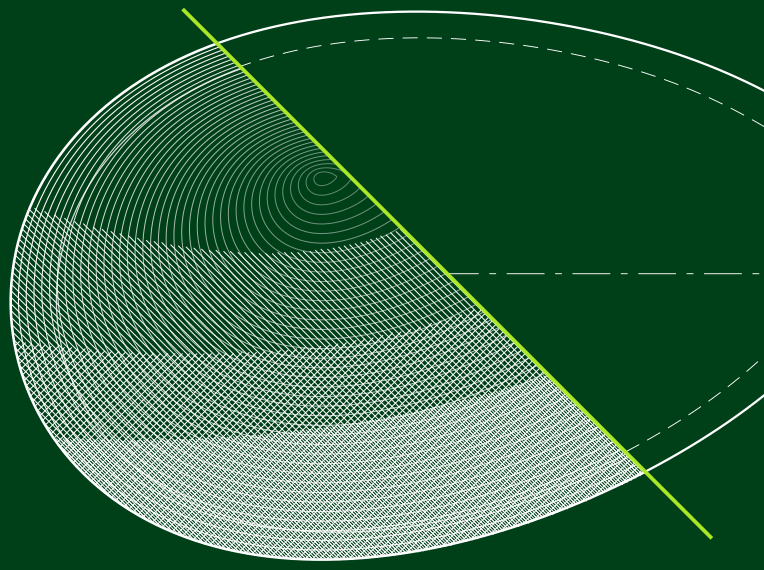
01 · PRODUCT

Conventional Hulled Sesame Seeds

Cleaned sesame kernels with the outer hull removed (hulled / decorticated). *Sesamum indicum* L. Food ingredient for bakery, confectionery, tahini, toppings, snacks, seasoning blends, and further processing.

PGC/SP/SES-HUL/EU/R01 R01

SESAME · CLEANED · HULLED · ISO 17025 · COA · PKKHI



THE DEFINING PAIR

§ 02 · PHYSICAL AND CHEMICAL REQUIREMENTS

PURITY · MINIMUM

99.98 %

FOREIGN MATERIAL · MAXIMUM

0.02 %

TWO HALVES OF ONE SAMPLE

99.98 + 0.02 = 100.00 *percent*

CONTENTS

01 IDENTITY 02
02 SPECIFICATIONS 03
03 NUTRITION, HANDLING 04
04 ALLERGENS 05
05 CONTAMINANTS 06
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MOISTURE	OIL CONTENT	FREE FATTY ACIDS	ISO/IEC 17025 LABORATORY TESTING
MAX	MIN	MAX	
5.0%	48.0%	2.0%	Per lot

CONTAMINANTS	EU REFERENCE	PGCOM · MAX	BASIS
Aflatoxin B1	2.0 µg/kg	2.0 µg/kg	Reg. (EU) 2023/915, Annex I 1.1.5
Total aflatoxins	4.0 µg/kg	4.0 µg/kg	B1 + B2 + G1 + G2; Reg. (EU) 2023/915, Annex I 1.1.5
Ethylene oxide + 2-CE	0.05 mg/kg	Not detected	PGCom lot-release limit; LOQ ≤ 0.05 mg/kg; EU MRL under Reg. (EC) 396/2005
Cadmium	0.10 mg/kg	0.10 mg/kg	Reg. (EU) 2023/915, Annex I 3.2.11.1

SUPPLY CHAIN

FARM GROUPS — ORIGIN
CLEANING — SORTING
HULLING — CONTROLLED
LABORATORY — ISO/IEC 17025
PKKHI — LOADING

CONTROLLED EU-MARKET SPECIFICATION · PG COMMODITIES · KARACHI · PKKHI · CONTROLLED EU-MARKET SPECIFICATION · PG COMMODITIES · KARACHI · PKKHI · CONTROLLED EU-MARKET SPECIFICATION · PG COMMODITIES · KARACHI · PKKHI · CONTROLLED EU-MARKET SPECIFICATION · PG COMMODITIES · KARACHI · PK

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SECTION 01 / PRODUCT IDENTIFICATION

01 Product identity and sensory characteristics

Product identification, composition, origin, sensory characteristics, intended use, and controlled processing.

100%
COMPOSITION: SESAME SEEDS

PRODUCT IDENTIFICATION

PRODUCT NAME	Conventional Hulled Sesame Seeds
PRODUCT CODE	SES-HUL
PRODUCT DESCRIPTION	Cleaned sesame kernels with the outer hull removed (hulled / decorticated)
BOTANICAL NAME	*Sesamum indicum* L.
COMMON NAMES	Hulled sesame seeds; decorticated sesame seeds; sesame seed kernels

ORIGIN	Pakistan
PRODUCTION STATUS	Conventional (not organic)
INGREDIENT DECLARATION	Sesame seeds
INTENDED USE	Food ingredient for bakery, confectionery, tahini, toppings, snacks, seasoning blends, and further processing
INTENDED MARKET	European Union

SENSORY CHARACTERISTICS

APPEARANCE	Whole, small oval kernels; clean and free-flowing
COLOUR	White to creamy white
ODOUR	Characteristic sesame odour; no foreign odour
FLAVOUR	Characteristic sesame flavour; no rancid or foreign taste
TEXTURE	Smooth, small kernels; free-flowing
HAZARDOUS FOREIGN OBJECTS	No stones, metal, glass, or other hazardous foreign objects; total foreign material max. 0.02%
PESTS / INSECTS	No live insects or visible infestation

INTENDED APPLICATIONS

BAKERY · TAHINI · CONFECTIONERY · TOPPINGS · SNACKS · SEASONINGS

PROCESSING AND TRACEABILITY

CLEANING
Controlled cleaning and separation reduce foreign material.

HULLING
The outer hull is removed under controlled conditions to produce clean kernels.

LOT TRACEABILITY
Traceability is maintained from receipt of raw sesame from farm groups through packing and export.

SECTION 02 / PRODUCT SPECIFICATIONS

02 Physical, chemical and microbiological specifications

Product requirements and microbiological lot-release limits.

99.98%
MINIMUM PURITY

PURITY	FOREIGN MATERIAL	MOISTURE
MIN	MAX	MAX
99.98%	0.02%	5.0%
Finished product	Lot-release limit	At release

OIL CONTENT	FREE FATTY ACIDS	AFLATOXIN B1
MIN	MAX	MAX
48.0%	2.0%	2 *ppb*
Product specification	FFA	EU finished-ingredient limit

PARAMETER	SPECIFICATION	INTERPRETATION
Total aflatoxins	max. 4 *ppb*	B1 + B2 + G1 + G2
Pests / insects	None	No live infestation
Hazardous foreign objects	Absent	No stones, metal, glass, or other hazardous foreign objects

MICROBIOLOGICAL RELEASE CRITERIA

MICROORGANISM / INDICATOR	SPECIFICATION	UNIT / SAMPLING PLAN
Total bacterial count / aerobic plate count	≤ 100,000	*CFU/g*
E. coli	< 10	*CFU/g*
Coliforms	≤ 100	*CFU/g*
Moulds and yeasts	≤ 20,000	*CFU/g*
Salmonella spp.	Not detected	Five 25 *g* samples; no positive result permitted (n=5, c=0). EN ISO 6579-1 or validated equivalent

QUALITY-ASSURANCE RELEASE	
	Each production lot is assessed against this specification before release. The lot-specific Certificate of Analysis records the applicable physical, chemical, and microbiological results. The microbiological limits above are applied as contractual lot-release criteria using validated test methods and documented sampling.

PGC/SP/SES-HUL/EU/R01 · SES-HUL · SUPERSEDES PGC-SPEC-SES-001-EU · ARTICLE PGC-1101 · CONTROLLED EU-MARKET SPECIFICATION · PGC/SP/SES-HUL/EU/R01 · SES-HUL · SUPERSEDES PGC-SPEC-SES-001-EU · ARTICLE PGC-1101 · CONTROLLED EU-MARKET SPECIFICATION · PGC/SP/SES-HUL/EU/R01 · SES-HUL · SUPERSEDES PGC-SP

SECTION 03 / NUTRITION AND HANDLING

03 Nutritional values, packaging and handling

Typical nutritional values and specified packaging, storage, and transport conditions.

24 *months*
SPECIFIED SHELF LIFE

TYPICAL TECHNICAL NUTRITIONAL VALUES

PER 100 *g*

NUTRIENT	TYPICAL VALUE	NUTRIENT	TYPICAL VALUE
Energy	2,640 *kJ* / 631 *kcal*	Sugars	0.48 *g*
Total fat	61.20 *g*	Dietary fibre	11.60 *g*
Protein	20.40 *g*	Sodium	47 *mg*
Saturated fat	9.06 *g*	Salt	0.12 *g*
Monounsaturated fat	23.90 *g*	Calcium	60 *mg*
Polyunsaturated fat	25.50 *g*	Iron	6.36 *mg*
Carbohydrate	11.70 *g*	Magnesium	345 *mg*
Phosphorus	667 *mg*	Potassium	370 *mg*
Zinc	6.73 *mg*		

REFERENCE BASIS

Typical values for food-manufacturing use. Salt is calculated as sodium × 2.5. The responsible food business operator establishes finished-food EU nutrition information under Regulation (EU) 1169/2011.

PACKAGING, STORAGE AND TRANSPORT

PACKAGING

MATERIAL

Food-grade polypropylene (PP) or paper bags with the specified liner; product identity and lot reference shown

FOOD-CONTACT COMPLIANCE

Complies with Regulations (EC) 1935/2004 and 2023/2006, plus Regulation (EU) 10/2011 for plastic layers

STORAGE

TEMPERATURE

Cool storage; preferably below 35 °C

ENVIRONMENT

Dry and odour-free; relative humidity max. 65%; out of sunlight; packaging intact and away from walls

MOISTURE PROTECTION

Protect from water, condensation, humidity, and damaged packaging

TRANSPORT

CONDITION

Clean, dry, odour-free food-grade containers or trucks

HANDLING

Keep bags closed and protect from pests, odours, chemicals, and nonfood cargo

UNIT SIZE

25 *kg* net

SHELF LIFE

24 *months* after packing under specified conditions

04

SECTION 04 / ALLERGEN DECLARATION

EU Annex II allergen declaration

Allergen status and related product declarations under Regulation (EU) No 1169/2011.

Sesame
PRESENT AS INGREDIENT

EU ANNEX II ALLERGEN	PRODUCT STATUS
Cereals containing gluten and products thereof	Not used as an ingredient
Crustaceans and products thereof	Not used as an ingredient
Eggs and products thereof	Not used as an ingredient
Fish and products thereof	Not used as an ingredient
Peanuts and products thereof	Not used as an ingredient
Soybeans and products thereof	Not used as an ingredient
Milk and products thereof	Not used as an ingredient
Nuts and products thereof	Not used as an ingredient
Celery and products thereof	Not used as an ingredient
Mustard and products thereof	Not used as an ingredient
Sesame seeds and products thereof	**Present · product identity**
Sulphur dioxide / sulphites above 10 *mg/kg* or 10 *mg/L*	Not used as an ingredient
Lupin and products thereof	Not used as an ingredient
Molluscs and products thereof	Not used as an ingredient

CONTAINS: SESAME

This product consists solely of sesame seeds. Sesame is therefore the only EU Annex II allergen intentionally present as an ingredient. PGCom's documented Hazard Analysis and Critical Control Point (HACCP) programme covers supplier approval, segregation, sanitation, packing, and label verification.

PRODUCT STATUS AND DECLARATIONS

SESAME ALLERGEN
Contains sesame. Declared throughout product and shipment information.

NON-GMO / PLANT ORIGIN
Single-ingredient plant-origin product, supported by documented supply-chain controls under Regulations (EC) 1829/2003 and 1830/2003.

NON-IRRADIATED
Not treated with ionising radiation.

GLUTEN STATUS
No cereal containing gluten or gluten-derived ingredient is used.

ALLERGEN CONTROL
Ingredient approval, segregation, sanitation, packing, and label verification are documented.

FOOD SAFETY
HACCP-based procedures implemented in accordance with Regulation (EC) 852/2004.

SECTION 05 / CONTAMINANT AND RESIDUE CONTROL

05 Contaminants, residues and lot release

Applicable EU limits and PGCom contractual criteria supported by lot-specific laboratory testing.

ISO/IEC 17025
LOT TESTING LABORATORY

PARAMETER / AREA	REFERENCE	EU / PGCOM SPECIFICATION	REGULATORY BASIS / RELEASE COMMENT
Total aflatoxins (B1 + B2 + G1 + G2)	EU limit	≤ 4.0 µg/kg (ppb)	Regulation (EU) 2023/915, Annex I 1.1.5
Aflatoxin B1	EU limit	≤ 2.0 µg/kg (ppb)	Regulation (EU) 2023/915, Annex I 1.1.5
Ethylene oxide residue definition	EU MRL 0.05 mg/kg	EtO + 0.55 × 2-CE: not detected; LOQ ≤ 0.05 mg/kg	PGCom lot-release limit; EU sesame maximum residue limit 0.05 mg/kg under Regulation (EC) 396/2005
Pesticide residues	Reg. (EC) 396/2005	Complies with applicable sesame-seed MRLs; residues not detected above validated reporting limits	Method LOQs at or below applicable MRLs, including Article 18 default 0.01 mg/kg
Cadmium	EU limit	≤ 0.10 mg/kg	Regulation (EU) 2023/915, Annex I 3.2.11.1
Lead	PGCom criterion	≤ 0.20 mg/kg	PGCom contractual release criterion; ISO/IEC 17025 verification
Mercury	PGCom criterion	≤ 0.01 mg/kg	PGCom contractual release criterion; ISO/IEC 17025 verification
Arsenic	PGCom criterion	≤ 0.20 mg/kg	PGCom contractual release criterion; ISO/IEC 17025 verification
Other contaminants	Reg. (EU) 2023/915	Comply with applicable EU limits	Applicable provisions of Regulation (EU) 2023/915 as amended

EU CONFORMITY AND LOT-RELEASE CONTROLS

EU COMPLIANCE BASIS

Manufactured and released as an EU food ingredient against the requirements cited in this specification.

CONTRACTUAL QUALITY CRITERIA

Minimum 99.98% purity, maximum 0.02% foreign material, *Salmonella* not detected in five 25 g samples, and the microbiological limits listed on page 3.

LOT RELEASE

Quality Assurance authorises shipment only after reviewing test results, the Certificate of Analysis, packaging records, and traceability records.

LABORATORY TESTING

Each lot is tested for aflatoxins, pesticide residues, ethylene oxide / 2-chloroethanol, heavy metals, and microbiology by an ISO/IEC 17025-accredited laboratory. Results form part of the shipment documentation package.

REGULATORY REVIEW

EU limits, MRLs, and import controls are reviewed at order confirmation and shipment release.

BUYER-SPECIFIC CRITERIA

Any stricter written buyer criterion is incorporated into the approved specification and release plan.

SECTION 06 / EU REGULATORY FRAMEWORK

06 Applicable European Union legislation

Principal EU legislation referenced by this product specification and lot-release programme.

EU
REGULATORY BASIS

FOOD LAW AND HYGIENE

Regulations (EC) 178/2002 and 852/2004: food safety, operator responsibility, traceability, withdrawal, recall, food hygiene, and HACCP-based procedures.

MICROBIOLOGICAL FRAMEWORK

Regulation (EC) 2073/2005 applies to the food categories covered by that regulation. The page 3 limits are applied as contractual lot-release criteria.

PESTICIDES AND ETHYLENE OXIDE

Regulation (EC) 396/2005 and current maximum residue limits. Ethylene oxide + 0.55 × 2-chloroethanol, expressed as ethylene oxide, max. 0.05 *mg/kg*; PGCom lot-release limit: not detected.

CONTAMINANTS AND SAMPLING

Regulation (EU) 2023/915 sets aflatoxin B1, total aflatoxin, and cadmium limits. Implementing Regulation (EU) 2023/2782 governs official-control sampling and analysis.

FOOD INFORMATION AND ALLERGENS

Regulation (EU) 1169/2011, including Annex II. Sesame is declared throughout the specification and shipment information.

GMO, IRRADIATION AND GLUTEN

Regulations (EC) 1829/2003 and 1830/2003; Directives 1999/2/EC and 1999/3/EC; and Regulation (EU) 828/2014. Product is Non-GMO, non-irradiated, with no cereal containing gluten used.

FOOD-CONTACT PACKAGING

Regulations (EC) 1935/2004 and 2023/2006; plastic food-contact layers comply with Regulation (EU) 10/2011, with Article 15 declarations of compliance maintained.

IMPORT AND OFFICIAL CONTROLS

Regulations (EU) 2017/625 and 2019/1793. Current EU import controls for the product and country of origin are reviewed before shipment release.

EU COMPLIANCE AND LOT RELEASE

PGCom releases this product only when the applicable limits and controls in this specification are met. Where a buyer requirement is stricter, the approved buyer criterion is incorporated into the lot-release plan.

AFLATOXIN B1	TOTAL AFLATOXINS	ETO / 2-CE	CADMIUM
EU LIMIT	EU LIMIT	LOQ ≤0.05 *mg/kg*	EU LIMIT
≤2 *ppb*	≤4 *ppb*	ND Not detected	≤0.10 *mg/kg*

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SECTION 07 / SHIPMENT DOCUMENTATION

07 Shipment documentation and lot records

Commercial, analytical, and technical records supplied or maintained for shipment and lot release.

CoA
ISSUED PER SHIPMENT LOT

SHIPMENT DOCUMENTATION

COMMERCIAL · INVOICE / PACKING LIST
Product, EU-market designation, lot identity, quantity, and packing details.

COMMERCIAL · PHYTOSANITARY / HEALTH
All certificates applicable to the destination and shipment.

COMMERCIAL · OFFICIAL CONTROLS
Applicable origin and commodity-control documents in the export documentation package.

ANALYTICAL · LOT-SPECIFIC COA
Each lot is tested before release; a lot-specific CoA is supplied with each shipment.

ANALYTICAL · TEST REPORTS
Methods, LOQs, and results for EtO / 2-CE, EU pesticide panel, heavy metals, aflatoxins, and microbiology.

TECHNICAL · PRODUCT DECLARATIONS
Allergen, Non-GMO, non-irradiation, and traceability declarations.

TECHNICAL · FOOD SAFETY RECORDS
HACCP-based controls, Quality Assurance release records, and current facility documents in the supplier-approval file.

EU PRODUCT SPECIFICATION SUMMARY

PRODUCT / ORIGIN	Conventional hulled / decorticated sesame seeds · Pakistan
ARTICLE / MARKET	SES-HUL · European Union
COMPOSITION / COLOUR	100% sesame seeds · white to creamy white
PURITY / FOREIGN MATERIAL	min. 99.98% / max. 0.02%
MOISTURE / OIL / FREE FATTY ACIDS	max. 5.0% / min. 48.0% / max. 2.0%
AFLATOXINS	B1 ≤2.0 µg/kg; total B1 + B2 + G1 + G2 ≤4.0 µg/kg
ETHYLENE OXIDE / CADMIUM	Ethylene oxide + 0.55 × 2-chloroethanol not detected (limit of quantification ≤0.05 mg/kg) / cadmium ≤0.10 mg/kg
MICROBIOLOGY	*E. coli* <10 CFU/g; *Salmonella* not detected in five 25 g samples; aerobic plate count ≤100,000 CFU/g
ALLERGEN	CONTAINS: SESAME
LOT ASSURANCE	ISO/IEC 17025 testing / lot-specific COA with every shipment
PACKING / SHELF LIFE	25 kg polypropylene or paper bags / 24 months after packing

SUPPLY CHAIN TRACEABILITY

01 FARM GROUPS
02 CLEANING & SORTING
03 CONTROLLED HULLING
04 ISO/IEC 17025 LOT TESTING
05 PORT OF KARACHI

PG COMMODITIES · KARACHI · PAKISTAN · TWO HALVES OF ONE WHOLE

END OF SPECIFICATION

CONTROLLED EU-MARKET SPECIFICATION · PG COMMODITIES · KARACHI · PKKHI · CONTROLLED EU-MARKET SPECIFICATION · PG COMMODITIES · KARACHI · PKKHI · CONTROLLED EU-MARKET SPECIFICATION · PG COMMODITIES · KARACHI · PKKHI · CONTROLLED EU-MARKET SPECIFICATION · PG COMMODITIES · KARACHI · PK