

Lipase-CV

Section 1: Product and Company Identification

Material name Lipase-CV

Synonyms Lipase Ex. Chromobacterium viscosum **Product No.** 70-1461-00; 70-1461-01; LIPA-70-1461

Product description Lyophilized powder containing enzyme (protein) and salt.

Product use Enzyme reagent for laboratory use.

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Section 2: Hazards Identification

OSHA regulatory status

This preparation is classified as hazardous under U.S. OSHA 29 CFR 1910.1200; E.C.

Directive 1999/45/EC; Canadian R.S. 1985, c. H-3; U.K. CHIP 2002 No. 1689; and/or U.N. GHS ST/SG/AC 10/30. Refer to Sec. 15, Regulatory Information, for details

regarding hazard classification.

None of the components present in this preparation at concentrations equal to or greater

than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

Precautionary statements CAUTION! The chemical, physical and toxicological properties of this preparation have

not been thoroughly characterized. Irritating to eyes. Avoid contact with eyes and skin. Do

not ingest or inhale. Preparation appearance: light brown to off-white powder.

Potential health effects:

Routes of exposure Occupational exposure routes may include eye contact, skin contact and inhalation.

Eyes Potassium chloride is irritating to the eyes. Eye exposure may cause irritation, redness,

watering and pain.

Skin No data available. Skin contact may cause irritation, dryness and redness.

Inhalation No data available. Although there is no evidence that the enzyme(s) in this preparation

induces specific respiratory hypersensitivity, all proteins are potential respiratory allergens and may result in respiratory sensitization in certain individuals after repeated and/or prolonged inhalation exposure, producing mild to severe symptoms similar to pollen allergy or asthma, including mucous membrane or eye irritation, itching of the skin or eyes, sneezing, nasal or sinus congestion, coughing, and tightness in the chest. These

symptoms may develop as late as 12 hours after exposure.

Ingestion No data available.

Chronic effectsNo data available. Repeated inhalation may result in respiratory sensitization.

Target organs Potassium chloride: eyes.

Potential environmental effects No data available.

Section 3: Composition / Information on Ingredients

CAS# **Ingredient Name** EC# % (wt/wt) Lipase 9001-62-1 232-619-9 </= 80 EC R-Phrases: None EC Hazard Class: None Potassium chloride 7447-40-7 231-211-8 >/= 20 EC R-Phrases: R36 **EC Hazard Class:** Xi

EC N-Fillases. Not

NOTE - Lipase - Enzyme source: Chromobacterium viscosum, Enzyme Commission number: 3.1.1.3

Section 4: First Aid Measures

First aid procedures:

Eye contact Immediately flush eyes with plenty of tepid water for 15 minutes while separating eyelids

with fingers. Remove contact lenses if worn. Obtain medical attention if needed or if

symptoms, such as redness or irritation persist.

Skin contact In case of contact, flush skin with cool water and remove contaminated clothing. Obtain

medical attention if needed or if irritation or other symptoms develop.

Inhalation If inhaled, move from exposure area to fresh air. Seek medical attention if breathing

becomes difficult or if cough or other symptoms develop.

Ingestion In case of ingestion, contact a poison control center or physician for instructions.

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Section 5: Fire Fighting Measures

Flammable properties Material may burn when exposed to sufficient heat.

Unknown.

foam, dry chemical or water spray.

Unsuitable extinguishing media

Specific hazards arising from

the chemical

Standard protective equipment and precautions for firefighters

Toxic gases may be generated by combustion, including. carbon monoxide (CO), carbon

dioxide (CO₂) and potassium oxides (KOx).

Firefighters should wear NIOSH-approved or equivalent Self-Contained Breathing

Apparatus and full protective gear.

Section 6: Accidental Release Measures

Personal precautions Avoid physical contact with material and avoid generating or inhaling dust. Ensure

adequate ventilation. Wear Personal Protective Equipment (PPE) as indicated in Section

8. Wash hands thoroughly after handling. No information available.

Environmental precautions

Methods and materials for containment and clean-up

Do not dry sweep powder. Use HEPA-filtered vacuum, if available, otherwise wet mop to clean up a powder spill. Decontaminate the spill site following standard procedures.

Dispose of materials in accordance with all applicable federal, state, local and provincial

environmental regulations, per Section 13.

Section 7: Handling and Storage

Handling Follow good laboratory hygiene practices. See Section 8, Engineering Controls. Minimize

contact and contamination of personal clothing and skin. Wash hands thoroughly after

handling.

Storage Storage Store desiccated at -20°C (-4°F). Do not store with incompatible substances; see Section

10.

Section 8: Exposure Controls / Personal Protection

Exposure guidelinesThere are no ACGIH, NIOSH, OSHA or country-specific occupational exposure limits

currently established for components present in this preparation at concentrations equal

to or greater than 1% (0.1% if carcinogen).

Engineering controlsUse in well ventilated areas. If handling large quantities or there is a potential for dust or

aerosol generation, use local exhaust ventilation. Facilities storing or using this material

should be equipped with an eyewash fountain and a safety shower.

Personal protective equipment:

Eye / face protection Wear appropriate protective chemical safety glasses.

Skin protection Wear lab coat or other protective garments. Remove contaminated clothing promptly.

Hand protection Wear chemical resistant protective gloves.

Respiratory protection A respirator is not required under normal conditions of use.

General Follow company-specific safety procedures.

Section 9: Physical and Chemical Properties

Appearance Light brown to off-white powder

Odor Not available

pH 6 - 8 (in aqueous solution)Melting point/Freezing point Not available / Not applicable

Boiling point

Evaporation rate

Flash point

Flammability/explosivity limits

Not applicable
Not applicable
Not applicable

in air, upper

Flammability/explosivity limits

in air, lower

Not applicable

Vapor pressureNot availableDensityNot availableSolubilityWater-solublePartition coefficientNot available

(n-octanol/water)

Auto-ignition temperature Not available

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Section 10: Chemical Stability and Reactivity Information

Possibility of hazardous Hazardous polymerization will not occur.

reactions

Chemical stability Stable under ordinary conditions of use and storage. See Section 7.

Conditions to avoid Unknown. Incompatible materials Unknown.

Hazardous decompositionThermal decomposition may lead to release of irritating gases and vapors.

products

Section 11: Toxicological Information

Acute effects:

Toxicological data - Selected LD50s and LC50s

Potassium chloride 7447-40-7 Oral LD50 Rat: 2600 mg/kg

Local effectsNo data available.Chronic effectsNo data available.SensitizationNo data available.CarcinogenicityNo data available.MutagenicityNo data available.Reproductive effectsNo data available.TeratogenicityNo data available.

Section 12: Ecological Information

Ecotoxicity:

Ecotoxicity - Freshwater Algae Data

Potassium chloride 7447-40-7 72 Hr EC50 Scenedesmus subspicatus: 2500 mg/L

Ecotoxicity - Freshwater Fish Species Data

Potassium chloride 7447-40-7 96 Hr LC50 Lepomis macrochirus: 2010 mg/L [static]

Ecotoxicity - Water Flea Data

Potassium chloride 7447-40-7 48 Hr EC50 Daphnia magna: 825 mg/L

Persistence and degradabilityNo data available.Bioaccumulation potentialNo data available.Mobility in environmentalNo data available.

media

Section 13: Disposal Considerations

Methods of disposal Dispose of unused product, spilled material and waste in accordance with all applicable

federal, state, local and provincial environmental and hazardous waste regulations.

Section 14: Transport Information

Basic shipping description Not classified as dangerous goods. Not regulated per IATA and DOT regulations.

Section 15: Regulatory Information

US Federal Regulations:

Inventory - United States - Section 8(b) Inventory (TSCA):

Lipase 9001-62-1 XU
Potassium chloride 7447-40-7 Present

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International Regulations:

Canada - WHMIS - Classifications of Substances

Potassium chloride 7447-40-7 Uncontrolled product according to WHMIS classification

criteria (including 23.8%)

Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes

Potassium chloride 7447-40-7 ID Number 230, hazard class 1 - low hazard to waters

Inventory - Australia - Inventory of Chemical Substances (AICS)

Lipase 9001-62-1 Present Potassium chloride 7447-40-7 Present

Inventory - Canada - Domestic Substances List (DSL)

Potassium chloride 7447-40-7 Present

Inventory - Canada - Organisms on the Domestic Substances List (DSL)

Lipase 9001-62-1 IUB #3.1.1.3

Inventory - China

Lipase 9001-62-1 Present Potassium chloride 7447-40-7 Present

Inventory - European Union - European Inventory of Existing Commercial Chemical Substances (EINECS)

Lipase 9001-62-1 232-619-9
Potassium chloride 7447-40-7 231-211-8
Inventory - Japan Existing and New Chemical Substances (ENCS)
Potassium chloride 7447-40-7 1-228

Inventory - Korea - Existing and Evaluated Chemical Substances
Lipase 9001-62-1 KE-22541
Potassium chloride 7447-40-7 KE-29086

Canadian Hazardous Products

WHMIS Status Non-controlled

European Communities Dangerous Substances/Preparations

EC Hazard Class Xi - Irritant

Symbols

X

Risk Phrases

R36 Irritating to eyes.

Safety Phrases

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical

advice.

Section 16: Other Information

Further Information:

This MSDS has been prepared in accordance with the ANSI Z400.1 format. Every effort has been made to adhere to the hazard criteria and content requirements of the U.S. OSHA Hazard Communication Standard, Canadian Controlled Products Regulation (CPR), UK Chemical Hazard Information and Packaging Regulations, European Communities REACH Regulation, and UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

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