

## **Phospholipase DP**

**Product and Company Identification Section 1:** 

**Material name** Phospholipase DP Phospholipase **Synonyms** 70-1731-00; 70-1731-01 Product No.

**Product description** Lyophilized powder containing enzyme (protein) and salts.

**Product use** Enzyme reagent for laboratory use.

Distributor **Emergency Telephone Numbers** Americas: +1-760-476-3962 Sekisui Diagnostics LLC 31 New York Avenue Europe, Middle East Framingham, MA 01701 & Africa: +1-760-476-3961 Asia Pacific: +1-760-476-3960

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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.

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

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

not ingest or inhale. Preparation appearance: white to light brown 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 effects** No 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**

**Ingredient Name** CAS# EC# % (wt/wt) Phospholipase D 9001-87-0 232-639-8 < 80 EC R-Phrases: None EC Hazard Class: None 7447-40-7 231-211-8 >/=20Potassium chloride

EC R-Phrases: R36 **EC Hazard Class:** Xi

NOTE - Phospholipase D - Enzyme source: Streptomyces chromofuscus, Enzyme Commission number: 3.1.4.4

#### **Section 4:** First Aid Measures

First aid procedures:

Eve 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.

Suitable extinguishing media Use extinguishing media suitable for surrounding fire, such as carbon dioxide, chemical

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 (CO<sub>2</sub>), nitrogen oxides (NOx) and potassium oxides (KOx).

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

Apparatus and full protective gear.

**Accidental Release Measures Section 6:** 

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.

**Environmental precautions** 

Methods and materials for containment and clean-up No information available. 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

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

**Section 8: Exposure Controls / Personal Protection** 

**Exposure guidelines** There 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 controls** Use 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.

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

General Follow company-specific safety procedures.

**Section 9: Physical and Chemical Properties** 

**Appearance** White to light brown powder

Odor Not available Not applicable pН

Melting point/Freezing point Not available / Not applicable

**Boiling point** Not applicable **Evaporation rate** Not applicable Flash point Not applicable Flammability/explosivity limits Not applicable

in air, upper

Flammability/explosivity limits

in air, lower

Not applicable

Vapor pressure Not available **Density** Not available Solubility Water-soluble Partition coefficient Not 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 decomposition** Thermal 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):

Potassium chloride 7447-40-7 Present

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### **Phospholipase DP**

#### **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)

Potassium chloride 7447-40-7 Present

Inventory - Canada - Domestic Substances List (DSL)

Potassium chloride 7447-40-7 Present

Inventory - China

Potassium chloride 7447-40-7 Present

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

Phospholipase D 9001-87-0 232-639-8
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

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).

MSDS Origination Date: 01 March, 2006

Version #: 4

**Revision Date:** 27 November, 2012

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