

# SAFETY DATA SHEET

## 1. SUBSTANCE AND SOURCE IDENTIFICATION

Product Identifier

SRM Number: 3385

**SRM Name:** Asian Ginseng (*Panax ginseng*) Extract

Other Means of Identification: Not applicable.

#### Recommended Use of This Material and Restrictions of Use

This Standard Reference Material (SRM) is intended primarily for evaluation of analytical methods for the determinations of isoflavones and elements in ground Asian ginseng extract and similar matrices. SRM 3385 can be used for quality assurance when assigning values to in-house reference materials. A unit of SRM 3385 consists of five packets, each containing approximately 1 g of ground Asian ginseng extract.

#### **Company Information**

National Institute of Standards and Technology Standard Reference Materials Program 100 Bureau Drive, Stop 2300 Gaithersburg, Maryland 20899-2300

Telephone: 301-975-2200 Emergency Telephone ChemTrec: E-mail: SRMMSDS@nist.gov 1-800-424-9300 (North America) Website: https://www.nist.gov/srm +1-703-527-3887 (International)

## 2. HAZARDS IDENTIFICATION

**Note:** This processed material is intended for research use; not for human consumption. SRM 3385 is supplied in a small quantity and under normal laboratory conditions it does not constitute a combustible dust hazard. The physical properties of this material indicate that accumulated dust on surfaces generated where operations produce fine particulates, may lead to combustible dust concentrations in air.

#### Classification

Physical Hazard: Not classified.

**Health Hazard:** Acute Toxicity, Oral Category 4

# Label Elements Symbol:



Signal Word: WARNING

#### **Hazard Statement(s):**

H302 Harmful if swallowed.

## **Precautionary Statement(s):**

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P301 + P312 If swallowed: Call a doctor if you feel unwell.

P330 Rinse mouth.

P501 Dispose of contents and container according to local regulations.

Hazards Not Otherwise Classified: None.

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## 3. COMPOSITION AND INFORMATION ON HAZARDOUS INGREDIENTS

Substance: Asian ginseng extract
Other Designations: Panax ginseng.

Components are listed in compliance with OSHA's 29 CFR 1910.1200. For actual values, see the Certificate of

Analysis.

Hazardous Component(s)	CAS Number	EC Number (EINECS)	Nominal Mass Concentration (%)
Asian ginseng	50647-08-0	not available	100

## 4. FIRST AID MEASURES

#### **Description of First Aid Measures**

**Inhalation:** If adverse effects occur, remove to well-ventilated (uncontaminated) area. If breathing is difficult, qualified personnel may administer oxygen. If not breathing, qualified personnel should give artificial respiration. Seek immediate medical attention.

**Skin Contact:** Rinse affected skin thoroughly with soap or mild detergent and water for at least 15 minutes. If skin irritation persists, seek medical aid and bring the container or label.

**Eye Contact:** Immediately flush eyes, including under the eyelids, with copious amounts of water for at least 15 minutes. Seek immediate medical attention.

**Ingestion:** If a large amount is swallowed, seek medical attention.

Most Important Symptoms/Effects, Acute and Delayed: This herb is a stimulant; therefore, it may cause nervousness, restlessness, and anxiety.

**Indication of any immediate medical attention and special treatment needed, if necessary:** If any of the above symptoms are present, seek immediate medical attention.

## 5. FIRE FIGHTING MEASURES

**Fire and Explosion Hazards:** Avoid generating dust; sufficient concentrations of fine dust dispersed in air, and in the presence of an ignition source is a potential hazard.

#### **Extinguishing Media**

Suitable: Regular dry chemical, carbon dioxide, water, or regular foam.

Unsuitable: None listed.

Specific Hazards Arising from the Chemical: Not applicable.

**Special Protective Equipment and Precautions for Fire-Fighters:** Move container from fire area if it can be done without personal risk. Avoid inhalation of material or combustion by-products. Wear full protective clothing and NIOSH-approved self-contained breathing apparatus (SCBA).

**NFPA Ratings** (0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe)

Health = 1 Fire = 0 Reactivity = 0

### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment and Emergency Procedures:** Use suitable protective equipment; see Section 8, "Exposure Controls and Personal Protection".

Methods and Materials for Containment and Clean up: Avoid generating and accumulating dust. Collect in appropriate container for disposal.

#### 7. HANDLING AND STORAGE

Safe Handling Precautions: See Section 8, "Exposure Controls and Personal Protection".

**Storage and Incompatible Materials:** Keep separated from incompatible substances and ignition sources. See the Certificate of Analysis for storage information.

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## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Exposure Limits:** This material is a particulate matter and adequate inhalation/respiratory protection should be used to minimize exposure. No occupational exposure limits established for Asian ginseng extract. The exposure limits for Particulates Not Otherwise Regulated are applicable.

OSHA (PEL): 15 mg/m³ TWA (total particulates) 5 mg/m³ TWA (respirable particulates)

**Engineering Controls:** Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits.

**Personal Protection Measures:** In accordance with OSHA 29 CFR 1910.132, subpart I, wear appropriate Personal Protective Equipment (PPE) to minimize exposure to this material.

**Respiratory Protection:** If workplace conditions warrant a respirator, a respiratory protection program that meets OSHA 29CFR 1910.134 must be followed. Refer to NIOSH 42 CFR 84 for applicable certified respirators.

Eye Protection: Splash resistant safety goggles and emergency eyewash are recommended.

Skin and Body Protection: Chemical resistant clothing and gloves are recommended.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

11. TOXICOLOGICAL INFORMATION

<b>Descriptive Properties</b>	Asian Gin	seng
Molar Mass (g/mol)		plicable
Molecular Formula	not app	plicable
Appearance (physical state, color, etc.	powder	r
Odor	not ava	ailable
Odor threshold	not ava	
pН	not ava	ailable
Evaporation rate	not ava	ailable
Melting point/freezing point	not ava	
Relative Density	not ava	
Density	not ava	
Vapor Pressure	not ava	
Vapor Density (air = 1)	not ava	
Viscosity	not ava	
Solubilities	not ava	
Partition coefficient (n-octanol/water		
Particle Size	not ava	ailable
Thermal Stability Properties		
Autoignition Temperature	not ava	
Thermal Decomposition	not ava	
Initial boiling point and boiling rang		
Explosive Limits, LEL (Volume %)	not ava	
Explosive Limits, UEL (Volume %)	not ava	
Flash Point	not ava	
Flammability (solid, gas)	not ava	ailable
10. STABILITY AND REACTIVITY		
Reactivity: Stable at normal temperatures	and pressure.	
Stability: X Stable	Unstable	
Possible Hazardous Reactions: Not appl	cable.	
Conditions to Avoid: Avoid generating d	ast.	
ncompatible Materials: None listed.		
Hazardous Decomposition: None listed.		
Hazardous Polymerization:	Will Occur X V	Will Not Occur

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Route of Exposure:	X	Inhalation	X	_ Skin	X	Ingesti	on	
Symptoms Related to irritation, headache, nau				Toxicological	Characte	ristics:	Eye or skin	mechanical
Potential Health Effect Inhalation: May c Skin Contact: May Eye Contact: May Ingestion: May ca	ause irrity cause ir	tation. rritation. rritation.	·					
Numerical Measures o	f Toxici	ty						
Acute Toxicity: C Mouse, Oral Ll Rat, Oral LD50	D50: 20	0 mg/kg						
Skin Corrosion/Ira	ritation:	Not classified	d; no data	available.				
Serious Eye Dama	ge/Irrita	ation: Not cla	ssified; no	data available	e.			
Respiratory Sensit	ization:	Not classified	l; no data	available.				
Skin Sensitization:	Not cla	assified; no dat	ta availabl	e.				
Germ Cell Mutage	enicity:	Not classified:	; no data a	vailable.				
Carcinogenicity: 1 Listed as a Ca Asian ginseng	rcinogei	n/Potential Ca			Yes a carcinog	en/poten	X No	n.
Reproductive Toxi	icity: N	ot classified; n	o data ava	ilable.				
Specific Target Or	gan Tox	xicity, Single I	Exposure	: Not classifie	d; no data a	vailable.		
Specific Target Or	gan Tox	xicity, Repeat	ed Exposi	ure: Not class	ified; no da	ta availal	ole.	
Aspiration Hazard	l: Not a	pplicable.						
12. ECOLOGICAL	INFORN	MATION						
Ecotoxicity Data: No of Persistence and Degrad Bioaccumulative Poten Mobility in Soil: No date Other Adverse effects:	<b>lability: tial:</b> No ta availa	No data avail data available ble.						
13. DISPOSAL CON	SIDER.	ATIONS						
Waste Disposal: Dispo	se in ac	cordance with	all applic	able federal, st	ate, and loc	al regula	tions.	
14. TRANSPORTAT	TION IN	FORMATION	1					
U.S. DOT and IATA:	This ma	terial is not reg	gulated by	DOT or IATA	<b>A</b> .			
15. REGULATORY	Infor	MATION						
U.S. Regulations CERCLA Sections	102a/103	3 (40 CFR 302	.4): Not r	regulated.				
SARA Title III Sect	tion 302	(40 CFR 355.3	30): Not 1	egulated.				
SARA Title III Sect	tion 304	(40 CFR 355.4	40): Not 1	egulated.				
SARA Title III Sec	tion 313	(40 CFR 372.6	65): Not 1	egulated.				
OSHA Process Safe	ty (29 C	FR 1910.119)	: Not regu	ılated.				
SARA Title III Sect	tions 311	/312 Hazardo	us Catego:	ries (40 CFR 3	70.21)			

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ACUTE HEALTH: Yes
CHRONIC HEALTH: No
FIRE: No
REACTIVE: No
PRESSURE: No

State Regulations: Not listed.U.S. TSCA Inventory: Not listed.

TSCA 12(b), Export Notification: Not listed.

Canadian Regulations: WHMIS Information: Not provided for this material.

### 16. OTHER INFORMATION

Issue Date: 29 April 2021

Sources: CDC; NIOSH; NIOSH Pocket Guide to Chemical Hazards; Department of Health and Human

Services (DHHS), Centers for Disease Control and Prevention (CDC), National Institute for Safety and Health; Particulates Not Otherwise Regulated, 30 October 2019; available at

https://www.cdc.gov/niosh/npg/npgd0480.html (accessed Apr 2021).

European Medicines Agency, Assessment Report on Panax ginseng C.A. Meyer, radix; 25 March 2014, available at https://www.ema.europa.eu/en/documents/herbal-report/final-assessment-report-panax-

ginseng-ca-meyer-radix\_en.pdf (accessed Apr 2021).

U.S. National Library of Medicine, ChemIDplus Database; *Ginseng*; available at https://chem.nlm.nih.gov/chemidplus/rn/50647-08-0 (accessed Apr 2021).

#### **Key of Acronyms:**

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
CAS	Chemical Abstracts Service	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
CFR	Code of Federal Regulations	RCRA	Resource Conservation and Recovery Act
DOT	Department of Transportation	REL	Recommended Exposure Limit
EINECS	European Inventory of Existing Commercial Chemical Substances	RQ	Reportable Quantity
EPCRA	Emergency Planning and Community Right-to-Know Act	RTECS	Registry of Toxic Effects of Chemical Substances
IARC	International Agency for Research on Cancer	SARA	Superfund Amendments and Reauthorization Act
IATA	International Air Transport Association	SCBA	Self-Contained Breathing Apparatus
IDLH	Immediately Dangerous to Life and Health	SRM	Standard Reference Material
LC50	Lethal Concentration	STEL	Short Term Exposure Limit
LD50	Median Lethal Dose or Lethal Dose, 50 %	TLV	Threshold Limit Value
LEL	Lower Explosive Limit	TPQ	Threshold Planning Quantity
MSDS	Material Safety Data Sheet	TSCA	Toxic Substances Control Act
NFPA	National Fire Protection Association	TWA	Time Weighted Average
NIOSH	National Institute for Occupational Safety and Health	UEL	Upper Explosive Limit
NIST	National Institute of Standards and Technology	WHMIS	Workplace Hazardous Materials Information System
n.o.s.	Not Otherwise Specified		·

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