

SAFETY DATA SHEET

1. SUBSTANCE AND SOURCE IDENTIFICATION

Product Identifier

SRM Number: 3253

SRM Name: Yerba Mate Leaves

Other Means of Identification: Not applicable.

Recommended Use of This Material and Restrictions of Use

This Standard Reference Material (SRM) is intended primarily for use in validating methods for determining polycyclic aromatic hydrocarbons (PAHs) in yerba mate and similar matrices. This SRM can also be used for quality assurance when assigning values to in-house control materials. This SRM is a ground, commercially available yerba mate. A unit of SRM 3253 consists of two heat-sealed, aluminized pouch containing approximately 10 g of material.

Company Information

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

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2. HAZARDS IDENTIFICATION

Note: This processed material is intended for research use; not for human consumption. SRM 3253 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:** Not classified.

Label Elements

Symbol: No symbol.

Signal Word: No signal word.

Hazard Statement(s): No applicable hazard statements.

Precautionary Statement(s): No applicable precautionary statements.

Hazards Not Otherwise Classified: None.

Ingredients(s) with Unknown Acute Toxicity: None.

3. COMPOSITION AND INFORMATION ON HAZARDOUS INGREDIENTS

Substance: Yerba mate leaves (powder)

Other Designations: Not available.

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

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Hazardous Component(s)	CAS Number	EC Number (EINECS)	Nominal Mass Concentration (%)
none	_	_	_
Non-Hazardous Component(s) Yerba mate powder	not available	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: No information available.

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 = 0 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.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits: No occupational exposure limits established for yerba mate powder. OSHA lists the following exposure limits for Particulates Not Otherwise Regulated.

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.

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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

Descriptive Properties	Yerba mate powder
Molar Mass (g/mol)	not applicable
Molecular Formula	not applicable
Appearance (physical state, color, etc.)	powder
Odor	not available
Odor threshold	not available
pН	not available
Evaporation rate	not available
Melting point/freezing point	not available
Relative Density	not available
Density	not available
Vapor Pressure	not available
Vapor Density (air = 1)	not available
Viscosity	not available
Solubilities	not available
Partition coefficient (n-octanol/water)	not available
Thermal Stability Properties	'
Autoignition Temperature	not available
Thermal Decomposition	not available
Initial boiling point and boiling range	not available
Explosive Limits, LEL (Volume %)	not available
Explosive Limits, UEL (Volume %)	not available
Flash Point	not available
Flammability (solid, gas)	not available

10. STABILITY AND REACTIVITY

IU. STABILITY AND REACTIVITY							
Reactivity: Stable at normal tempera	atures and pressure.						
Stability: X Stable	Unstable						
Possible Hazardous Reactions: No	t applicable.						
Conditions to Avoid: Avoid genera	ting dust.						
Incompatible Materials: None liste	d.						
Hazardous Decomposition: None li	sted.						
Hazardous Polymerization	Will Occur	X	Will Not Occur				

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11. Toxicologica	AL INFO	ORMATION						
Route of Exposure:	X	Inhalation	X	Skin	X	Ingesti	ion	
Symptoms Related to irritation.	the Phy	sical, Chemi	cal and	Toxicologic	al Characte	eristics:	Eye or skin	mechanical
Potential Health Effects Inhalation: May ca Skin Contact: May Eye Contact: May Ingestion: Large qu Numerical Measures of Acute Toxicity: No Skin Corrosion/Irr Serious Eye Damag Respiratory Sensiti	cause irritary cause irricause irricantities ir Toxicity data avaitation:	ntion. ritation. itation. may cause gas y nilable. No data availation: No data	trointestin able. available	nal distress;	no other adv	erse effec	ets identified.	
Skin Sensitization: Germ Cell Mutage: Carcinogenicity: N Listed as a Car Yerba mate is n Reproductive Toxic Specific Target Org	No data nicity: No lot classi rcinogen ot listed city: No gan Toxi gan Toxi	available. No data available fied. /Potential Car by IARC, NTI data available city, Single E	rcinogen P or OSH xposure:	No data av	ailable.	ial carcin	X No logen.	
Aspiration Hazard 12. ECOLOGICAL I								
Ecotoxicity Data: No description of the Persistence and Degrade Bioaccumulative Potent Mobility in Soil: No date Other Adverse effects:	ata availa ability: ial: No a availab	able. No data availa data available. de.						
13. DISPOSAL CON	SIDERA	TIONS						
Waste Disposal: Dispo	se in acc	ordance with a	all applica	ble federal,	state, and lo	cal regula	ations.	
14. TRANSPORTAT	ION INF	ORMATION						
U.S. DOT and IATA:	This mate	erial is not reg	ulated by	DOT or IA	ГА.			
15. REGULATORY	INFORM	IATION						
U.S. Regulations CERCLA Sections 1 SARA Title III Sections 1 SARA Title III Section SARA	ion 302 (40 CFR 355.3 40 CFR 355.4	0): Not r 0): Not r	egulated. egulated.				

OSHA Process Safety (29 CFR 1910.119): Not regulated.

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SARA Title III Sections 311/312 Hazardous Categories (40 CFR 370.21)

ACUTE HEALTH: No 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: 21 March 2018

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 Occupational Safety and Health (NIOSH); *Particulates Not Otherwise Regulated*, 13 February 2015;

available at http://www.cdc.gov/niosh/npg/npgd0480.html (accessed Mar 2018).

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		•

Disclaimer: Physical and chemical data contained in this SDS are provided only for use in assessing the hazardous nature of the material. The SDS was prepared carefully, using current references; however, NIST does not certify the data in the SDS. The values for this material are given in the NIST Certificate of Analysis.

Users of this SRM should ensure that the SDS in their possession is current. This can be accomplished by contacting the SRM Program: telephone (301) 975-2200; fax (301) 948-3730; e-mail srmmsds@nist.gov; or via the Internet at https://www.nist.gov/srm.

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