

SAFETY DATA SHEET

1. SUBSTANCE AND SOURCE IDENTIFICATION

Product Identifier

SRM Number:1649bSRM Name:Urban DustOther Means of Identification:Not applicable.

Recommended Use of This Material and Restrictions of Use

This Standard Reference Material (SRM) is intended for use in evaluating analytical methods for the determination of selected polycyclic aromatic hydrocarbons (PAHs), nitro-substituted PAHs (nitro-PAHs), polychlorinated biphenyl (PCB) congeners, chlorinated pesticides, and inorganic constituents in atmospheric particulate material and similar matrices. A unit of SRM 1649b consists of a bottle containing 2 g of particulate material.

Company Information

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2. HAZARDS IDENTIFICATION

Note: The concentration of PAHs, nitro-PAHs, PCB congeners, chlorinated pesticides, and inorganic constituents in SRM 1649b is below the cut-off value/concentration limit for SDS information as required by OSHA 29 CFR 1910.1200. The health and physical hazard information provided in this SDS is for urban dust as a particulate matter.

Classification

Physical Hazard:Not classified.Health Hazard:Not classified.

Label Elements Symbol: No Symbol Signal Word: No Signal Word

Hazard Statement(s): Not applicable.

Precautionary Statement(s): Not applicable.

Hazards Not Otherwise Classified: Not applicable.

Ingredients(s) with Unknown Acute Toxicity: Not applicable.

3. COMPOSITION AND INFORMATION ON HAZARDOUS INGREDIENTS

Substance: Urban Dust

Other Designations: Dust; atmospheric particulate matter; urban particulate matter

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

Hazardous Component(s)	CAS Number	EC Number (EINECS)	Nominal Mass Concentration (%)
Urban Dust	not applicable	not applicable	100

4. FIRST AID MEASURES

Description of First Aid Measures:

Inhalation: If adverse effects occur, remove to uncontaminated area. If not breathing, give artificial respiration or oxygen by qualified personnel. Seek immediate medical attention.

Skin Contact: Wash skin with soap and water for at least 15 minutes.

Eye Contact: Flush eyes with water for at least 15 minutes. If necessary, seek medical attention.

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

Most Important Symptoms/Effects, Acute and Delayed: No data available; generated dust may result in irritation.

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

5. FIRE FIGHTING MEASURES

Fire and Explosion Hazards: Negligible fire hazard. See Section 9, "Physical and Chemical Properties" for flammability properties.

Extinguishing Media:

Suitable: Use extinguishing media appropriate for the surrounding area. Unsuitable: None listed.

Specific Hazards Arising from the Chemical: None listed.

Special Protective Equipment and Precautions for Fire-Fighters: Avoid inhalation of material or combustion byproducts. Wear full protective clothing and NIOSH approved self-contained breathing apparatus (SCBA).

6. ACCIDENTAL RELEASE MEASURES

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

Methods and Materials for Containment and Clean up: Notify safety personnel of spills. Collect spilled material in appropriate container for disposal. Isolate hazard area and deny entry.

7. HANDLING AND STORAGE

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

Storage: Store and handle in accordance with all current regulations and standards.

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 have been established for urban dust. 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: 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/Face Protection: Wear splash resistant safety goggles with a face shield. An eyewash station should be readily available near areas of use.

Skin and Body Protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Chemical-resistant gloves should be worn at all times when handling chemicals.

9. PHYSICAL AND CHEMICAL PROPERTIES

Descriptive Properties:	
Appearance	gray powder
(physical state, color, etc.):	
Molecular Formula:	not applicable
Molar Mass (g/mol):	not applicable
Odor:	not available
Odor threshold:	not available
рН:	not available
Evaporation rate:	not applicable
Melting point/freezing point (°C):	not available
Relative Density (g/L):	not available
Vapor Pressure (mmHg):	not applicable
Vapor Density (air = 1):	not applicable
Viscosity (cP):	not applicable
Solubility(ies):	not available
Partition coefficient (n-octanol/water):	not available
Particle Size	not available
Thermal Stability Properties:	
Autoignition Temperature (°C):	not available
Thermal Decomposition (°C):	not available
Initial boiling point and boiling range (°C):	not available
Explosive Limits, LEL (Volume %):	not available
Explosive Limits, UEL (Volume %):	not available
Flash Point (°C)	not available
Flammability (solid, gas):	not available

10. STABILITY AND REACTIVITY

Reactivity: Stable at normal temperatures and pressure.

Stability: X Stable Unstable

Possible Hazardous Reactions: No data available.

Conditions to Avoid: Generating dust.

Incompatible Materials: No data available.

Fire/Explosion Information: See Section 5, "Fire Fighting Measures".

Hazardous Decomposition: No data available.

Hazardous Polymerization: _____ Will Occur ____ X ___ Will Not Occur

11. TOXICOLOGICAL INFORMATION

Route of Exposure:	Х	Inhalation	Х	Skin	Inį	gestion
Symptoms Related to the dust may result in irritation	•	vsical, Chemica	al and To	oxicologic	al Characteristics:	No data available; generated
Potential Health Effects	(Acut	te, Chronic and	l Delayed	l):		
Inhalation: No data	availa	able; exposure r	nay result	in respira	atory tract irritation.	
Skin Contact: No d	ata ava	ailable; skin exp	oosure ma	y result in	n mechanical irritatio	n.
Eye Contact: No da	ita ava	ilable; dust may	v cause me	echanical	irritation.	
Ingestion: No data available; ingestion of large amounts may result in adverse effects to the gastrointestinal system.						
Numerical Measures of	Toxic	ity:				
Acute Toxicity: Not	t class	ified; no data av	ailable.			
Skin Corrosion/Irri	tation	: Not classified	l; no data	available		
Serious Eye Damag	e/Irrit	ation: Not clas	ssified; no	data ava	ilable.	
Respiratory Sensitiz	zation	: Not classified	l; no data	available		
Skin Sensitization:	Not cl	assified; no dat	a availabl	e.		
Germ Cell Mutagen	icity:	Not classified;	no data a	vailable.		
Carcinogenicity: No	ot clas	sified.				
Listed as a Care Dust is not listed	0		0		n Yes	<u>X</u> No
Reproductive Toxic	Reproductive Toxicity: Not classified; no data available.					
Specific Target Organ Toxicity, Single Exposure: Not classified; no data available.						
Specific Target Org	an To	xicity, Repeate	ed Exposi	ire: Not	classified; no data av	vailable.
Aspiration Hazard: Not classified; no data available.						
12. ECOLOGICAL IN	NFOR	MATION				
Ecotoxicity Data: No da	ita ava	ilable.				
Persistence and Degrada	ability	: No data avail	able.			
Bioaccumulative Potenti	al: N	o data available	•			
Mobility in Soil: No data	a avail	able.				
Other Adverse effects: No data available.						
13. DISPOSAL CONS	SIDER	ATIONS				

Waste Disposal: Dispose of waste in accordance with all applicable federal, state, and local regulations.

14. TRANSPORTATION INFORMATION

U.S. DOT and IATA: Not regulated by DOT or IATA.

15. REGULATORY INFORMATION

U.S. Regulations:

CERCLA Sections 102a/103 (40 CFR 302.4): Not regulated.

SARA Title III Section 302 (40 CFR 355.30): Not regulated.

SARA Title III Section 304 (40 CFR 355.40): Not regulated.

SARA Title III Section 313 (40 CFR 372.65): Not regulated.

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

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:

California Proposition 65: 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: 12 May 2023

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 May 2023).

Key of Acronyms:

ACGIH	American Conference of Governmental Industrial	NRC	Nuclear Regulatory Commission
A T T	Hygienists Annual Limit on Intake	NTD	National Taria la con Due con un
ALI		NTP	National Toxicology Program
CAS	Chemical Abstracts Service	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response,	PEL	Permissible Exposure Limit
	Compensation, and Liability Act		
CFR	Code of Federal Regulations	RCRA	Resource Conservation and Recovery Act
DOT	Department of Transportation	REL	Recommended Exposure Limit
EC50	Effective Concentration, 50 %	RM	Reference Material
EINECS	European Inventory of Existing Commercial	RQ	Reportable Quantity
	Chemical Substances		
EPCRA	Emergency Planning and Community Right-to-Know	RTECS	Registry of Toxic Effects of Chemical Substances
	Act		0 ,
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, 50 %	STEL	Short Term Exposure Limit
LD50	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
NIOSH	National Institute for Occupational Safety and Health	TWA	Time Weighted Average
NIST	National Institute of Standards and Technology	UEL	Upper Explosive Limit
	87	WHMIS	Workplace Hazardous Materials Information System

Disclaimer: The NIST SDS information is specific to the NIST product and is believed to be correct, based upon our current knowledge. The SDS may not necessarily be all inclusive and should be used only as a guide. NIST does not guarantee the accuracy or completeness of this information. The only official source for specific values and uncertainties is the certificate or report.

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; e-mail srmmsds@nist.gov; or via the Internet at https://www.nist.gov/srm.