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SECTION I

Product

Chemical

Synonyms

Formula

Unit Size

MATERIAL SAFETY DATA SHEET

vwn Products 911 Commerce Court

SILICON METAL LUMPS

h

Silicon Metal

up to 500 grams

Si

WLC4564R WLC4564T MSDS No. Effective Date April 9, 1998

Buffalo Grove, IL 60089-2375 1-800-727-4368

> 24 HOUR EMERGENCY ASSISTANCE CHEMTREC Health 800-424-9300 Fire 0 Day 716-226-6177 Reactivity 0 **NFPA** HMIS * HAZARD RATING LEAST SLIGHT MODERATE HIGH FXTREME

> > 2

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C.A.S. No.	7440-21-3			0	1	2	3	4
SECTION	J II	INGREDIENT	s of Mi	XTUR	ES			
Principal C	Component(s)			%		TLV Ur	nits
Silicon	Metal Lumps				100%		See Section	n V.
CAUT	ION! DO NOT I	NHALE AS FUME OR DU	JST.					
NOT H	AZARDOUS IN	FORM SUPPLIED.						

ELAMMADI E COLID IRRITANT AS DUST

FLAMMABLE SUL	ID, INNITANT AS DOST.		
SECTION III	PHYSICAL DAT	Α	
Melting Point (°F)	1420°C (2588°F)	Specific Gravity (H ₂ O = 1)	2.42 @ 20°C
Boiling Point (°F)	2620°C (4748°F)	Percent Volatile by Volume (%)	Not applicable.
Vapor Pressure (mm Hg)	1 mm @ 1724°C	Evaporation Rate (=1)	Not applicable.
Vapor Density (Air=1)	Not determined.		
Solubility in Water	Insoluble.		manner account to the second s

Appearance & Odor Metallic silver lumps, cubic, steel-gray crystals or dark brown powder; no odor.

SECTION	IV FIRE	FIRE AND EXPLOSION HAZARD DATA			
Flash Point (Method Used)	Not flammable.	Flammable Limits in Air % by Volume N/A	Lower	Upper	
Extinguisher	Use any media suitable	for extinguishing supporting fire.			

SPECIAL FIREFIGHTING **PROCEDURES**

> None known. In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS

> Dangerous when heated, it will react with water or steam to produce hydrogen; can react with oxidizing materials. Flammable as dust.

NON-REGULATED. Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

attention. EYES: When dust comes in contact with eyes, do not rub eyes. Flush thoroughly with water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention. SKIN: Wash with soap and **SECTION VI** REACTIVITY DATA Conditions to Avoid Unstable Stability Avoid generation of airborne dust. Stable Incompatibility Strong oxidizing materials, strong bases, acids. Reacts with halides. (Materials to Avoid) Hazardous Silicon reacts with sodium hydroxide to generate flammable hydrogen gas. **Decomposition Products** Conditions to Avoid **Hazardous Polymerization**

HEALTH HAZARD DATA

ACGIH 1992-93 (TLV): TWA = 10 mg/m³, for total dust containing no

None known except for inhalation of silicon in the dust form. Inhalation of

asbestos and less than 1% crystalline silica; STEL 20 mg/m3 (Dust).

INHALATION OF DUST: Remove to fresh air. If not breathing, give

artificial respiration. If breathing is difficult, give oxygen. Get medical

dust causes irritation to lungs, eyes and mucous membranes.

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled

Will Not Occur

Recover for use if not contaminated. Avoid creating dust. Sweep up and place in a suitable container for proper disposal. Flush spill area with soap and water.

Not applicable.

Waste Disposal Method

May Occur

SECTION V

Emergency and

Threshold Limited Value

Effects of Overexposure

First Aid Procedures

Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only.

Uncontaminated material may be disposed of in a sanitary landfill. Check local codes.

SECTION VIII SPECIAL PROTECTION INFORMATION None needed in normal laboratory handling. If dusty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved dust mask or respirator. Respiration Protection (Specify Type) Local Exhaust If dusty. Special Ventilation Mechanical (General) If dusty. Other Eye Protection **Protective Gloves** Chemical safety glasses.

Other Protective Lab coat, apron, eye wash station, proper gloves, ventilation hood. Equipment

SECTION IX SPECIAL PRECAUTIONS Precautions to be Taken in Handling & Storing

Store in a cool place. Wash thoroughly after handling. Do not inhale silicon dust.

Read label on container before using. Do not wear contact lenses when working with chemicals. Other Precautions

Keep container tightly closed when not in use

Remove and wash contaminated clothing.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision No. 3 Date 4/9/98 Approved Michael Raszeja MR The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. * Hazardous Materials Industrial Standards. Printed on recycled paper.