



# SAFETY DATA SHEET

Preparation Date: 11/27/2017 Revision Date: Not Applicable Revision Number: Not Applicable

# 1. IDENTIFICATION

Product identifier

Product code: LF-200

**Product Name:** 0.5% Palladium on Titanium Silicate, Reduced, Water Wet, 25 microns

Other means of identification

**Synonyms:** No information available

CAS #: Mixture
RTECS # Not available
CI#: Not available

Recommended use of the chemical and restrictions on use
Recommended use:
Uses advised against
No information available

Supplier: Spectrum Chemical Mfg. Corp

14422 South San Pedro St. Gardena, CA 90248

(310) 516-8000

Order Online At: <a href="https://www.spectrumchemical.com">https://www.spectrumchemical.com</a>

Emergency telephone numberChemtrec 1-800-424-9300Contact Person:Martin LaBenz (West Coast)Contact Person:Ibad Tirmiz (East Coast)

# 2. HAZARDS IDENTIFICATION

#### Classification

This chemical is not considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

#### Label elements

Not classified

Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards
Not available

Product code: LF-200 Product name: 0.5% Palladium on

Titanium Silicate, Reduced, Water Wet,

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Water	7732-18-5	50
Titanium Silicate	NCAS	49.5
Palladium Metal, powder	7440-05-3	0.5

#### 4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you

have a poison emergency and need to talk to a poison specialist. Call

1-800-222-1222.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothing and

shoes. Get medical attention if irritation develops. Consult a physician if necessary.

**Eye Contact:** Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms

persist, call a physician.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. Get medical attention.

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

**Symptoms** May cause eye irritation

May cause skin irritation

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

**Protection of first-aiders** 

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

#### 5. FIRE-FIGHTING MEASURES

**Extinguishing Media** 

Suitable Extinguishing Media: The product is not flammable. If it is involved in a fire,

extinguish the fire using an agent suitable for the type of

surrounding fire.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products: No information available.

Specific hazards: No information available.

**Special Protective Actions for Firefighters** 

**Product code:** LF-200 **Product name:** 0.5% Palladium on

Titanium Silicate, Reduced, Water Wet,

25 microns

2/11

Specific Methods: No information available.

**Special Protective Equipment for Firefighters:** As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

# **6. ACCIDENTAL RELEASE MEASURES**

# Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Wear

personal protective equipment. Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Prevent product from entering

drains. Prevent entry into waterways, sewers, basements or confined areas.

# Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Cover with plastic sheet to prevent

spreading.

Methods for cleaning up Sweep up and shovel into suitable containers for disposal. Clean contaminated

surface thoroughly.

# 7. HANDLING AND STORAGE

#### Precautions for safe handling

#### **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials.

#### Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe dust. Use only in well-ventilated areas. Handle in accordance with good industrial hygiene and safety practice.

#### Conditions for safe storage, including any incompatibilities

# **Technical Measures/Storage Conditions:**

Keep container tightly closed. Store at room temperature in the original container. Store away from incompatible materials.

### **Incompatible Materials:**

Acids

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

#### National occupational exposure limits

#### **United States**

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WEEL
Water	7732-18-5	None	None	None	None
Titanium Silicate	NCAS	None	None	None	None
Palladium Metal, powder	7440-05-3	None	None	None	None

**Product code:** LF-200 **Product name:** 0.5% Palladium on Titanium Silicate, Reduced, Water Wet,

#### Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Water	7732-18-5	None	None	None	None
Titanium Silicate	NCAS	None	None	None	None
Palladium Metal, powder	7440-05-3	None	None	None	None

#### **Australia and Mexico**

Components	CAS-No.	Australia	Mexico
Water	7732-18-5	None	None
Titanium Silicate	NCAS	None	None
Palladium Metal, powder	7440-05-3	None	None

# **Appropriate engineering controls**

**Engineering measures to reduce exposure:** 

Ensure adequate ventilation, especially in confined areas. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. In case of insufficient ventilation, wear suitable respiratory equipment.

# Individual protection measures, such as personal protective equipment

# **Personal Protective Equipment**

**Eye protection:** Safety glasses or Goggles

Skin and body protection: Long sleeved clothing

apron Gloves

**Respiratory protection:** Respiratory protection is not necessary for normal handling. Good room

ventilation or use of local exhaust (fume hood) is sufficient. In well ventilated areas or if used in a fume hood, respiratory protection is not normally required. Use a dust respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentration of dust (dust clouds), inadequate

ventilation, development of respiratory tract irritation), and engineering controls are

not feasible. Be sure to use an approved/certified respirator or equivalent.

**Hygiene measures:** Avoid contact with skin, eyes and clothing. When using, do not eat, drink or

smoke. Wash hands before breaks and immediately after handling the product.

Wear suitable gloves and eye/face protection.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:Appearance:Color:SolidWettable powder.Black.

Odor: Taste Formula:

Odorless. No information available. No information available

**Product code:** LF-200 **Product name:** 0.5% Palladium on

Titanium Silicate, Reduced, Water Wet,

Molecular/Formula weight:Flammability:Flashpoint (°C/°F):No information availableNo information availableNo information available

Flash Point Tested according to: Autoignition Temperature (°C/°F): Lower Explosion Limit (%):

Not available No information available No information available

Upper Explosion Limit (%): Melting point/range(°C/°F): Decomposition temperature(°C/°F):

No information available No information available No information available

Boiling point/range(°C/°F): Bulk density: Density (g/cm3):

No information available 400-550 kg/m³ No information available

Specific gravity: pH: Vapor pressure @ 20°C (kPa):

Evaporation rate: Vapor density: VOC content (g/L):
No information available No information available No information available

Odor threshold (ppm): Partition coefficient Viscosity:

No information available (n-octanol/water): No information available

No information available

Miscibility: Solubility:

No information available Insoluble in water

# 10. STABILITY AND REACTIVITY

Reactivity

No information available

**Chemical stability** 

**Stability:** Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

<u>Conditions to avoid:</u> Heat. Incompatible materials.

Incompatible Materials: Acids

**Hazardous decomposition** No information available.

products:

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

# 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

**Principal Routes of Exposure:** 

Inhalation. Ingestion.

**Acute Toxicity** 

Product code: LF-200 Product name: 0.5% Palladium on

Titanium Silicate, Reduced, Water Wet,

25 microns

5/11

#### **Component Information**

Water

CAS-No. 7732-18-5

LD50/oral/rat = > 90 mL/kg Oral LD50 Rat

**LD50/oral/mouse** = No information available

**LD50/dermal/rabbit** = No information available

**LD50/dermal/rat** = No information available

**LC50/inhalation/rat** = No information available

LC50/inhalation/mouse = No information available

Other LD50 or LC50information = No information available

Titanium Silicate

CAS-No. NCAS

LD50/oral/rat = No information available

**LD50/oral/mouse** = No information available

**LD50/dermal/rabbit** = No information available

**LD50/dermal/rat** = No information available

**LC50/inhalation/rat** = No information available

**LC50/inhalation/mouse** = No information available

Other LD50 or LC50information = No information available

Palladium Metal, powder

CAS-No. 7440-05-3

LD50/oral/rat = No information available

**LD50/oral/mouse** = No information available

**LD50/dermal/rabbit** = No information available

LD50/dermal/rat = No information available

LC50/inhalation/rat = No information available

**LC50/inhalation/mouse** = No information available

Other LD50 or LC50information = No information available

#### **Product Information**

LD50/oral/rat =

**VALUE- Acute Tox Oral =** No information available

LD50/oral/mouse =

Value - Acute Tox Oral = No information available

LD50/dermal/rabbit

**VALUE-Acute Tox Dermal =** No information available

LD50/dermal/rat

**VALUE -Acute Tox Dermal =** No information available

LC50/inhalation/rat

**VALUE-Vapor** = No information available

**VALUE-Gas** = No information available

**VALUE-Dust/Mist** = No information available

LC50/Inhalation/mouse

**VALUE-Vapor** = No information available

**VALUE - Gas =** No information available

**VALUE - Dust/Mist =** No information available

Symptoms

**Product code:** LF-200 **Product name:** 0.5% Palladium on Titanium Silicate, Reduced, Water Wet,

**Skin Contact:** May cause skin irritation.

**Eye Contact:** May cause eye irritation.

**Inhalation** May cause respiratory tract irritation.

**Ingestion** Health injuries are not known or expected under normal use.

**Aspiration hazard** No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity

No information available.

Sensitization:

No information available.

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Water	7732-18-5	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed
Titanium Silicate	NCAS	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed
Palladium Metal, powder	7440-05-3	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity No data is available

Reproductive Effects: No information available
Developmental Effects: No information available
Teratogenic Effects: No information available

**Specific Target Organ Toxicity** 

STOT - single exposure
STOT - repeated exposure
Target Organs:

No information available.
No information available.

# 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

**Ecotoxicity effects:** No data available.

Persistence and degradability: No information available

**Bioaccumulative potential:** No information available.

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# 13. DISPOSAL CONSIDERATIONS

# **Disposal Methods**

#### Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

# Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Water	7732-18-5	None	None	None	None
Titanium Silicate	NCAS	None	None	None	None
Palladium Metal, powder	7440-05-3	None	None	None	None

#### 14. TRANSPORT INFORMATION

DOT

UN-No: Not Regulated

Proper Shipping Name: No information available Hazard Class: No information available Subsidiary Class No information available Packing group: No information available Emergency Response Guide No information available

Number

Marine PollutantNo data availableDOT RQ (lbs):No information availableSpecial ProvisionsNo Information availableSymbol(s):No information availableDescription:No information available

TDG (Canada)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Marine Pollutant
Description:
No information available

ADR

**UN-No:** Not Regulated

Proper Shipping Name:
Hazard Class:
Packing Group:
Subsidiary Risk:
No information available
No information available
No information available

IMO / IMDG

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
No information available
No information available
No information available
No information available

Product code: LF-200 Product name: 0.5% Palladium on

Titanium Silicate, Reduced, Water Wet,

Marine Pollutant No information available

**RID** 

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:

No information available
No information available
No information available

**ICAO** 

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
No information available
No information available
No information available
No information available

**IATA** 

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
ERG Code:
No information available

# 15. REGULATORY INFORMATION

#### International Inventories

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Water	7732-18-5	Present	Present KE-35400	Present	Not present	Present	Present	Present 231-791-2
Titanium Silicate	NCAS	Not Listed	Not present	Not present	Not present	Not present	Not present	Not present
Palladium Metal, powder	7440-05-3	Present	Present KE-27744	Present	Not present	Present	Present	Present 231-115-6

# **U.S. Regulations**

Palladium Metal, powder

California Directors List of Hazardous Substances: Present

#### California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

# Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

#### Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	CAS-No.	Carcinogen	Developmental Toxicity	Male	Female
				Reproductive	Reproductive
				Toxicity	Toxicity:
Water	7732-18-5	Not Listed	Not Listed	Not Listed	Not Listed
Titanium Silicate	NCAS	Not Listed	Not Listed	Not Listed	Not Listed
Palladium Metal, powder	7440-05-3	Not Listed	Not Listed	Not Listed	Not Listed

#### CERCLA/SARA

CAS-No.	CERCLA -	Section 302	Section 302	Section 313 -	Section 313 -

**Product code:** LF-200 **Product name:** 0.5% Palladium on Titanium Silicate, Reduced, Water Wet,

		Hazardous Substances and their Reportable Quantities	Extremely Hazardous Substances and TPQs	Extremely Hazardous Substances and RQs	Chemical Category	Reporting de minimis
Water	7732-18-5	None	None	None	None	None
Titanium Silicate	NCAS	None	None	None	None	None
Palladium Metal, powder	7440-05-3	None	None	None	None	None

#### **U.S. TSCA**

Components		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Water	7732-18-5	Not Applicable	Not Applicable
Titanium Silicate	NCAS	Not Applicable	Not Applicable
Palladium Metal, powder	7440-05-3	Not Applicable	Not Applicable

#### Canada

#### WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

The WHMIS 2015 classification of this product has not been validated or reviewed yet.

Component Water 7732-18-5 ( 50 ) WHMIS 2015 Hazard Classification
Not a dangerous product according to HPR classification criteria

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

# WHMIS 1988 Hazard Class

Non-controlled

Components Water **WHMIS 1988** 

Uncontrolled product according to WHMIS classification

#### **Canada Controlled Products Regulation:**

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

# Inventory

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Water	7732-18-5	Present	Not Listed
Titanium Silicate	NCAS	Not Listed	Not Listed
Palladium Metal, powder	7440-05-3	Present	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Water	7732-18-5	Not listed
Titanium Silicate	NCAS	Not listed
Palladium Metal, powder	7440-05-3	Not listed
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Water	7732-18-5	Not listed
Titanium Silicate	NCAS	Not listed
Palladium Metal, powder	7440-05-3	Not listed

#### **EU Classification**

**Product code:** LF-200 **Product name:** 0.5% Palladium on Titanium Silicate, Reduced, Water Wet,

10 / 11

#### EU GHS - SV - CLP 1272/2008

Components	CAS-No.	EU GHS - SV - CLP (1272/2008)
Water	7732-18-5	
Titanium Silicate	NCAS	
Palladium Metal, powder	7440-05-3	No information

#### EU - CLP (1272/2008)

# R-phrase(s)

not determined (not applicable)

# S -phrase(s)

none

Components	CAS-No.	Classification	Concentration	Safety Phrases
			Limits:	-
Water	7732-18-5		No information	
Titanium Silicate	NCAS		No information	
Palladium Metal, powder	7440-05-3		No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

# Indication of danger:

None.

# **16. OTHER INFORMATION**

Preparation Date:11/27/2017Revision Date:Not ApplicablePrepared by:Sonia Owen

Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

**End of Safety Data Sheet** 

Product code: LF-200

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