SAFETY DATA SHEETS

This SDS packet was issued with item:

072343218

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

071115336 071131986 072343200

FIRST HALF MATERIAL SAFETY DATA

SECTION 1 - PRODUCT IDENTIFICATION

Company Name: Danville Materials, Inc.

3420 Fostoria Way, Ste A-200 San Ramon, CA 94583 Phone (800) 827-7940 Fax: (925) 973-0764 Prepared: January 30, 2012

SECTION II: HAZARD(S) IDENTIFICATION

OSHA Permissible Exposure Limits: None Other Exposure Limit Used: None ACGIH Threshold Exposure Limit: None

Chronic, Other: None

SECTION III: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component

Mixture of Polydimethylsiloxane, Silica and Paraffi n Chemical Family: Silicon

No known hazardous components

SECTION IV: FIRST-AID MEASURES

Eye contact: Flush eyes with large amounts of water, consult a physician First Aid Procedures: For Skin - Wash off infected area with soap and water. For Ingestion -Seek medical advice, carry container with label and MSDS.

Effects of over Exposure: N/A

SECTION V: FIRE-FIGHTING MEASURES

Flash Point: 485OF (252 OC) closed cup – DIN 51755

Extinguishing Media: Carbon dioxide, Water Special Fire Fighting Procedures: None

Flammable limits: ND

Unusual Fire and Explosion Hazards: Irritating and/or toxic gases and earosols may be present

from the decomposition/combustion of product.

SECTION VI: ACCIDENTAL RELEASE MEASURES

None

SECTION VII: HANDLING AND STORAGE

Spill Management: Use absorbent to collect the material. Wash contaminated surfaces

with Soap and water

SECTION VIII: EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory: None

Eye Protection: Safety goggles Gloves: Surgical, rubber/PVC gloves Other Clothing and Equipment: Face Mask

Ventilation: None required, local exhaust recommended

SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure: NA Vapor Density: NA Evaporation Rate: NA Solubility in Water: Insoluble

Boiling Point: ND Percent Volatile: 2

Appearance and Odor: Silicon (various different colors) no odor

SECTION X: STABILITY AND REACTIVITY

Stable (x) Unstable ()

Conditions to Avoid: Heat in excess of 40°C, direct sunlight or intense light.

Incompatibility: Free radical initiators, oxidizing agents Hazardous Decomposition Products: Acrylic smoke Hazardous Polymerization: May occur () Will not occur (x)

SECTION XI: TOXICOLOGICAL INFORMATION

Carcinogens: None known

SECTION XII: ECOLOGICAL INFORMATION

This material contains hazardous components. Allow materials to cure prior to disposal.

SECTION XIII: DISPOSAL CONSIDERATIONS

Dispose of safely in accordance with local, state, and federal regulations.

SECTION XIV: TRANSPORT INFORMATION

Stable under normal conditions of use, transportation, and storage.

SECTION XV: REGULATORY INFORMATION

510k#: K951075

SECTION XVI: OTHER INFORMATION

None

The data and information given in this msds are accurate on the date of preparation. It does not indicate any warranty or representation. We disclaim all liability relating to use of this material since this is beyond our control.



3420 FOSTORIA WAY STE. A-200 SAN RAMON, CALIFORNIA 94583 USA
PHONE 800/827-7940 FAX 925/973-0764

ZEST DENTAL

SAFETY DATA SHEET

1. Identification

Product identifier First Quarter™, First Half™, Start VPS™

Other means of identification

Document number SDS-007-ZD Rev. A Recommended use Impression material.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Supplier

Company name Danville Materials

Address 2875 Loker Avenue East

Carlsbad, CA 92010

Telephone 1-800-827-7940
Contact Customer Service

E-mail danvillecs@zestdent.com

Website www.zestdent.com

Emergency telephone

number

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Sensitization, skin Category 1

800-451-8346 / 760-602-8703

Environmental hazards Hazardous to the aquatic environment, acute Category 1

hazard

Hazardous to the aquatic environment,

Category 2

long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word Warning

Hazard statement May cause an allergic skin reaction. Very toxic to aquatic life. Toxic to aquatic life with long lasting

effects.

Precautionary statement

Prevention Avoid breathing mist or vapor. Contaminated work clothing must not be allowed out of the

workplace. Wear protective gloves. Avoid release to the environment.

Response If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse. Collect spillage.

Storage Store away from incompatible materials.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

First Quarter™, First Half™, Start VPS™

941566 Version #: 01 Revision date: - Issue date: 27-February-2018

1 / 8

Chemical name	CAS number	%
Cristobalite	14464-46-1	20 - 45
Filler	Proprietary	< 20
Silicon compound	Proprietary	< 6
Siloxane compound	Proprietary	0.2 - 2

Composition comments

The specific chemical identity and/or exact percentage of component(s) have been withheld as a

All concentrations are in percent by weight. Components not listed are either non-hazardous or are

below reportable limits.

4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. In case of

eczema or other skin disorders: Seek medical attention and take along these instructions.

Eve contact Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Most important

symptoms/effects, acute and delaved

Direct contact with eyes may cause temporary irritation. May cause an allergic skin reaction.

Dermatitis. Rash.

Indication of immediate

medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

General information

Water fog. Foam. Powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical Special protective equipment During fire, gases hazardous to health may be formed.

and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

equipment/instructions

Move containers from fire area if you can do so without risk.

Specific methods General fire hazards Use standard firefighting procedures and consider the hazards of other involved materials.

Contains one or more components that will burn if involved in a fire.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Environmental precautions

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into

drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Persons susceptible to allergic reactions should not handle this product. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

Components	Туре	Value	
Filler	TWA	0.05 mg/m3	
Silicon compound	TWA	0.05 mg/m3	
US. OSHA Table Z-1 Limits fo	r Air Contaminants (29 CFR 1910.1	000)	
Components	Туре	Value	Form
Cristobalite (CAS 14464-46-1)	PEL	0.05 mg/m3	Respirable dust.
US. OSHA Table Z-3 (29 CFR $^{\prime}$	1910.1000)		
Components	Type	Value	Form
Cristobalite (CAS 14464-46-1)	TWA	0.05 mg/m3	Respirable.
		1.2 mppcf	Respirable.
Silicon compound	TWA	0.1 mg/m3	Respirable.
		2.4 mppcf	Respirable.
US. ACGIH Threshold Limit V	alues		
Components	Туре	Value	Form
Cristobalite (CAS 14464-46-1)	TWA	0.025 mg/m3	Respirable fraction.
Silicon compound	TWA	0.025 mg/m3	Respirable fraction.
US. NIOSH: Pocket Guide to 0	Chemical Hazards		
Components	Туре	Value	Form

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering

Silicon compound

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation. or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide easy access to water supply or an emergency shower.

0.05 mg/m3

Respirable dust.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear approved chemical safety goggles. Face shield is recommended.

TWA

Skin protection

Wear appropriate chemical resistant gloves. Nitrile or butyl rubber gloves are recommended. Be Hand protection

aware that the liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can

be recommended by the glove supplier.

Skin protection

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Other

Respiratory protection None required where adequate ventilation conditions exist. Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or

any other circumstances where air-purifying respirators may not provide adequate protection.

Check with respiratory protective equipment suppliers.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

First Quarter™, First Half™, Start VPS™

SDS US

941566 Version #: 01 Revision date: -Issue date: 27-February-2018

9. Physical and chemical properties

Appearance

Paste. **Physical state** Paste. **Form**

Not available. Color Not available. Odor **Odor threshold** Not available. Not applicable. pН Melting point/freezing point Not available. Not available. Initial boiling point and boiling

range

Flash point Does not flash. **Evaporation rate** Not available. Not applicable. Flammability (solid, gas) Upper/lower flammability or explosive limits

Not available. Explosive limit - lower (%) Explosive limit - upper (%) Not available. Vapor pressure Not available. Not available. Vapor density Not available. Relative density

Solubility(ies)

Not available. Solubility (water) Not available. **Partition coefficient**

(n-octanol/water)

Not available. **Auto-ignition temperature** Not available. **Decomposition temperature** $> 20.5 \text{ mm}^2/\text{s}$ **Viscosity** 104 °F (40 °C) Viscosity temperature

Other information

Explosive properties Not explosive. **Oxidizing properties** Not oxidizing.

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

941566

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition Thermal decomposition of this product can generate carbon monoxide and carbon dioxide. Silicon

oxide fumes. products

11. Toxicological information

Information on likely routes of exposure

Inhalation Prolonged or excessive inhalation may cause respiratory tract irritation.

Issue date: 27-February-2018

Skin contact May cause an allergic skin reaction.

Eye contact Direct contact with eyes may cause temporary irritation.

Ingestion May cause discomfort if swallowed.

Symptoms related to the physical, chemical and

Direct contact with eyes may cause temporary irritation. May cause an allergic skin reaction.

Dermatitis. Rash.

toxicological characteristics

Version #: 01

Information on toxicological effects

First Quarter™, First Half™, Start VPS™

Revision date: -

SDS US

Obtained by Global Safety Management, www.globalsafetynet.com, (877) 683-7460

Acute toxicity Not expected to be acutely toxic.

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Due to the form of the product, exposure to the potentially carcinogenic components is not

expected.

IARC Monographs. Overall Evaluation of Carcinogenicity

Cristobalite (CAS 14464-46-1)

1 Carcinogenic to humans.
Silicon compound (CAS Proprietary)

1 Carcinogenic to humans.

NTP Report on Carcinogens

Cristobalite (CAS 14464-46-1) Known To Be Human Carcinogen.

Reasonably Anticipated to be a Human Carcinogen.

Silicon compound (CAS Proprietary)

Known To Be Human Carcinogen.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Cristobalite (CAS 14464-46-1)

Filler (CAS Proprietary)

Cancer

Silicon compound (CAS Proprietary)

Cancer

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not an aspiration hazard.

Chronic effects Prolonged exposure may cause chronic effects.

Further information Symptoms may be delayed.

12. Ecological information

Ecotoxicity Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Persistence and degradability

The product contains inorganic compounds which are not biodegradable.

Bioaccumulative potential Mobility in soil

No data available on bioaccumulation. No data available for this product.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructionsCollect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

14. Transport information

DOT

941566

UN number UN3082

Version #: 01 Revision date: -

UN proper shipping name Environmentally hazardous substances, liquid, n.o.s. (Palladium compound)

Issue date: 27-February-2018

First Quarter™, First Half™, Start VPS™

SDS US

Transport hazard class(es)

Class 9
Subsidiary risk Label(s) 9
Packing group III

Environmental hazards

Marine pollutant Yes

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions 8, 146, 335, IB3, T4, TP1, TP29

Packaging exceptions 155
Packaging non bulk 203
Packaging bulk 241

IATA

UN number UN3082

UN proper shipping name Environmentally hazardous substance, liquid, n.o.s. (Palladium compound)

Transport hazard class(es)

Class 9
Subsidiary risk Label(s) 9
Packing group III
Environmental hazards Yes
ERG Code 9L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number UN3082

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Palladium compound)

Transport hazard class(es)

Class 9
Subsidiary risk Packing group III
Environmental hazards

Marine pollutant Yes EmS F-A, S-F

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to

cording to Not established.

Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Cristobalite (CAS 14464-46-1)

Filler (CAS Proprietary)

Silicon compound (CAS Proprietary)

Cristobalite (CAS 14464-46-1)

Filler (CAS Proprietary)

Iung effects

Silicon compound (CAS Proprietary)

Lung effects

Iung effects

Cristobalite (CAS 14464-46-1) immune system effects Filler (CAS Proprietary) immune system effects Silicon compound (CAS Proprietary) immune system effects

Cristobalite (CAS 14464-46-1) kidney effects Filler (CAS Proprietary) kidney effects

First Quarter™, First Half™, Start VPS™

SDS US

941566 Version #: 01 Revision date: - Issue date: 27-February-2018

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Yes

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

Classified hazard categories

Respiratory or skin sensitization

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

US. Massachusetts RTK - Substance List

Cristobalite (CAS 14464-46-1) Silicon compound (CAS Proprietary)

US. New Jersey Worker and Community Right-to-Know Act

Cristobalite (CAS 14464-46-1) Silicon compound (CAS Proprietary)

US. Pennsylvania Worker and Community Right-to-Know Law

Cristobalite (CAS 14464-46-1)

Filler (CAS Proprietary)

Silicon compound (CAS Proprietary)

US. Rhode Island RTK

Cristobalite (CAS 14464-46-1) Silicon compound (CAS Proprietary)

California Proposition 65



WARNING: This product can expose you to Silicon compound, which is known to the State of California to

cause cancer. For more information go to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

Silicon compound (CAS Proprietary) Listed: October 1, 1988

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Cristobalite (CAS 14464-46-1) Silicon compound (CAS Proprietary)

16. Other information, including date of preparation or last revision

Issue date 27-February-2018

Revision date - 01

HMIS® ratings Health: 2

Flammability: 1 Physical hazard: 0

NFPA ratings



First Quarter™, First Half™, Start VPS™

941566 Version #: 01 Revision date: - Issue date: 27-February-2018

SDS US

7/8

Disclaimer

Danville Materials cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.