# **SAFETY DATA SHEETS**

# This SDS packet was issued with item:

072343424

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

072363653 273034767

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).

072343416 072343432 072343440 273036997

# ZEST DENTAL SOLUTIONS

# SAFETY DATA SHEET

#### 1. Identification

Product identifier MicroPrime™ G

Other means of identification

Document number SDS-012-ZD Rev. A

**Recommended use** Desensitizer. **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

800-451-8346 / 760-602-8703

# 2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Acute toxicity, oral Category 4

Acute toxicity, inhalation Category 3
Skin corrosion/irritation Category 1B
Serious eye damage/eye irritation Category 1
Sensitization, respiratory Category 1
Sensitization, skin Category 1A

Environmental hazards Hazardous to the aquatic environment, acute Category 2

hazard

Hazardous to the aquatic environment, Category 3

long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word Danger

**Hazard statement** Harmful if swallowed. Toxic if inhaled. Causes severe skin burns and eye damage. May cause

allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin

reaction. Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Precautionary statement

**Prevention** Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when

using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate ventilation wear respiratory protection. Avoid

release to the environment.

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If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Response

If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. If swallowed: Rinse mouth. Do NOT induce vomiting. If in eyes: Rinse cautiously with water

for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. If inhaled: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center/doctor.

Storage Store locked up. Store in a well-ventilated place. Keep container tightly closed.

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

Hazard(s) not otherwise classified (HNOC)

Corrosive to the respiratory tract.

Supplemental information None.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	CAS number	%
Water	7732-18-5	50 - 70
Glutaraldehyde	111-30-8	1 - 10

Composition comments

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

trade secret.

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

#### 4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or

> artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If experiencing respiratory symptoms: Call a POISON CENTER

or doctor/physician.

Remove contaminated clothing immediately and wash skin with soap and water. Call a physician Skin contact

or poison control center immediately. Chemical burns must be treated by a physician. Wash

contaminated clothing before reuse.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If Ingestion

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and

delayed

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Difficulty in breathing. May cause an allergic skin reaction. Dermatitis. Rash. Causes digestive tract burns. Causes respiratory tract burns.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

**General information** 

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

#### 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

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

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

General fire hazards

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

Fire fighting Move containers from fire area if you can do so without risk. equipment/instructions

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

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This material will not burn until the water has evaporated. Residue can burn.

#### 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. Do not breathe 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.

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

**Environmental precautions** 

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

Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Avoid prolonged exposure. Persons susceptible to allergic reactions should not handle this product. When using, do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Keep away from heat. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

#### Occupational exposure limits

US.	ACGIH	Threshold	Limit	Values
00.	~~~			Tuidoo

Components	Туре	Value	
Glutaraldehyde (CAS 111-30-8)	Ceiling	0.05 ppm	
US. NIOSH: Pocket Guide to Ch	nemical Hazards		
Components	Туре	Value	
Glutaraldehyde (CAS 111-30-8)	Ceiling	0.8 mg/m3	
•		0.2 ppm	

# **Biological limit values**

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

Appropriate engineering 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. General ventilation normally adequate. Eye wash facilities and emergency shower must be available when handling this product.

# Individual protection measures, such as personal protective equipment

Wear safety glasses with side shields (or goggles) and a face shield. Wear a full-face respirator, if Eye/face protection needed.

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

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

If engineering controls do not maintain airborne concentrations below recommended exposure Respiratory protection limits (where applicable) or to an acceptable level (in countries where exposure limits have not

been established), an approved respirator must be worn. Wear NIOSH approved respirator

appropriate for airborne exposure at the point of use.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Keep away from food and drink. 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.

# 9. Physical and chemical properties

**Appearance** 

Physical stateLiquid.FormLiquid.

Color Not available.

Odor Not available.

Odor threshold Not available.

pH Not available.

Melting point/freezing point Not available.

Initial boiling point and boiling Not available.

range

Flash point Does not flash.

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available.
Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.Viscosity> 20.5 mm²/sViscosity temperature104 °F (40 °C)

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

No dangerous reaction known under conditions of normal use.

**Conditions to avoid**Contact with incompatible materials. Excessive heat.

Incompatible materials Strong oxidizing agents. Free radical initiators. Peroxides. Steel.

**Hazardous decomposition** 

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

#### 11. Toxicological information

Information on likely routes of exposure

**Inhalation** Toxic if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Causes

respiratory tract burns.

**Skin contact** Causes severe skin burns. May cause an allergic skin reaction.

**Eye contact** Causes serious eye damage.

Revision date: -

**Ingestion** Harmful if swallowed. Causes digestive tract burns.

Symptoms related to the physical, chemical and toxicological characteristics

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Difficulty in breathing. May cause an allergic skin reaction. Dermatitis.

Rash. Causes digestive tract burns. Causes respiratory tract burns.

Information on toxicological effects

Acute toxicity Toxic if inhaled. Harmful if swallowed.

Components Species Test Results

Glutaraldehyde (CAS 111-30-8)

Acute Dermal

LD50 Rabbit > 2000 mg/kg

Inhalation

Vapor

LC50 Rat 0.96 mg/l, 4 Hours

Aerosol

LC50 Rat 0.28 mg/l, 4 Hours

Oral

LD50 Rat 154 mg/kg

Skin corrosion/irritation Serious eye damage/eye Causes severe skin burns.
Causes serious eye damage.

irritation

Respiratory or skin sensitization

**ACGIH** sensitization

GLUTARALDEHYDE, ACTIVATED AND INACTIVATED Dermal sensitization

(CAS 111-30-8)

Respiratory sensitization

**Respiratory sensitization** May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Skin sensitization** May cause an allergic skin reaction.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

**Carcinogenicity** Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

NTP Report on Carcinogens

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

**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 inhalation may be harmful.

**Further information** Symptoms may be delayed.

12. Ecological information

**Ecotoxicity** Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

MicroPrime™ G

Mobility in soil 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.

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#### 13. Disposal considerations

**Disposal instructions**Collect 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

UN number UN2922

**UN proper shipping name** Corrosive liquids, toxic, n.o.s. (Glutaraldehyde)

Transport hazard class(es)

Class 8

Subsidiary risk 6.1(PGIII)
Label(s) 8+6.1
Packing group III

**Environmental hazards** 

Marine pollutant No

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

Corrosive liquid, toxic, n.o.s. (Glutaraldehyde)

Special provisions IB3, T7, TP1, TP28

Packaging exceptions 154
Packaging non bulk 203
Packaging bulk 241

**IATA** 

UN number UN2922

UN proper shipping name

Transport hazard class(es)

Class 8

Subsidiary risk 6.1(PGIII)
Label(s) 8+6.1

Packing group III
Environmental hazards No
ERG Code 8P

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

**IMDG** 

UN number UN2922

UN proper shipping name CORROSIVE LIQUID, TOXIC, N.O.S. (GLUTARALDEHYDE)

Transport hazard class(es)

Class 8

Subsidiary risk 6.1(PGIII)

Packing group III

**Environmental hazards** 

Marine pollutant No F-A, S-B

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

Not established.

Transport in bulk according to 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)

Not regulated.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

Classified hazard categories

Acute toxicity (any route of exposure)

Skin corrosion or irritation

Serious eye damage or eye irritation 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**

Glutaraldehyde (CAS 111-30-8)

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

Glutaraldehyde (CAS 111-30-8)

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

Glutaraldehyde (CAS 111-30-8)

#### **US. Rhode Island RTK**

Glutaraldehyde (CAS 111-30-8)

#### **California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

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

Glutaraldehyde (CAS 111-30-8)

#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes

Country(s) or region Inventory name On inventory (yes/no)\*

Philippines Philippine Inventory of Chemicals and Chemical Substances Ye

(PICCS)

Taiwan Chemical Substance Inventory (TCSI)

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

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

Issue date 21-February-2018

Revision date - 01

**NFPA** ratings



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.

# ZEST DENTAL SOLUTIONS

# SAFETY DATA SHEET

#### 1. Identification

Product identifier Prelude™ Primer

Other means of identification

Document number SDS-020-ZD Rev. A

Recommended use Primer.

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

800-451-8346 / 760-602-8703

# 2. Hazard(s) identification

 Physical hazards
 Flammable liquids
 Category 3

 Health hazards
 Skin corrosion/irritation
 Category 2

 Serious eye damage/eye irritation
 Category 2

Not classified.

Sensitization, skin Category 1
Reproductive toxicity (the unborn child) (oral) Category 2

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

**OSHA** defined hazards

Label elements

Prelude™ Primer



Signal word Warning

Hazard statement Flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. May cause an

allergic skin reaction. Suspected of damaging the unborn child by ingestion. May cause

respiratory irritation.

**Precautionary statement** 

**Prevention**Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep

container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist or vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face

protection.

**Response** If exposed or concerned: Get medical advice/attention. If on skin (or hair): Take off immediately all

contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. In case of fire: Use water

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fog, alcohol resistant foam, dry chemical powder, carbon dioxide to extinguish.

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Storage Keep cool. Store in a well-ventilated place. Keep container tightly closed. Store locked up.

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**

Chemical name	CAS number	%
Water	7732-18-5	30 - 50
2-Hydroxyethyl methacrylate	868-77-9	20 - 40
Ethanol	64-17-5	10 - 30

**Composition comments** 

The manufacturer has claimed one or more hazardous ingredients as trade secret under the OSHA Hazard Communication Standard. The hazards of this (these) ingredient(s) are given on this CDC.

All concentrations are in percent by weight.

CENTER or doctor/physician if you feel unwell.

#### 4. First-aid measures

Skin contact

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON

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. Wash

contaminated clothing before reuse.

**Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

**Ingestion** Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Coughing. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash. Prolonged exposure may cause chronic effects.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

**General information** 

Take off all contaminated clothing immediately. If exposed or concerned: get medical attention/advice. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

#### 5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

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

Specific hazards arising from the chemical

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

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

Fire fighting equipment/instructions

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Cool containers exposed to flames with water until well after the fire is out.

Specific methods
General fire hazards

943644

Use standard firefighting procedures and consider the hazards of other involved materials.

Flammable liquid and vapor.

Issue date: 19-April-2018

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Version #: 01

Revision date: -

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Ventilate closed spaces before entering them. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). 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. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

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Prelude™ Primer SDS US

# Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

# **Environmental precautions**

# 7. Handling and storage

# Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Persons susceptible to allergic reactions should not handle this product. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

# Conditions for safe storage, including any incompatibilities

Follow rules for flammable liquids. Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

Value

#### 8. Exposure controls/personal protection

#### Occupational exposure limits

Components

US. OSHA Table Z-1 Limits for Air Contaminants	(29 CFR 1910.10	(00)
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**Type** 

	<del>*</del> •		
Ethanol (CAS 64-17-5)	PEL	1900 mg/m3	
		1000 ppm	
<b>US. ACGIH Threshold Limit Valu</b>	ies		
Components	Туре	Value	
Ethanol (CAS 64-17-5)	STEL	1000 ppm	
Proprietary component	TWA	5 mg/m3	
US. NIOSH: Pocket Guide to Che	emical Hazards		
Components	Туре	Value	
Ethanol (CAS 64-17-5)	TWA	1900 mg/m3	
		1000 ppm	
Proprietary component	TWA	5 mg/m3	

#### **Biological limit values**

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

#### Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. Good general ventilation 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 and eye wash facilities.

#### Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles) and a face shield. Wear a full-face respirator, if

needed.

#### Skin protection

Wear appropriate chemical resistant gloves. Be aware that the liquid may penetrate the gloves. Hand protection

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

Prelude™ Primer SDS US 943644 3/8 Version #: 01 Revision date: -Issue date: 19-April-2018

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

**Respiratory protection** If engineering controls do not maintain airborne concentrations below recommended exposure

limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Wear NIOSH approved respirator

appropriate for airborne exposure at the point of use.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Observe any medical surveillance requirements. When using do not smoke. 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.

# 9. Physical and chemical properties

**Appearance** 

Physical stateLiquid.FormClear liquid.ColorPink.

Odor Not available.
Odor threshold Not available.
pH 2 (Approximately)
Melting point/freezing point Not available.
Initial boiling point and boiling Not available.

range

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.
(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

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

No dangerous reaction known under conditions of normal use.

**Conditions to avoid**Contact with incompatible materials. Avoid heat, sparks, open flames and other ignition sources.

Protect against direct sunlight.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

Thermal decomposition may produce smoke, oxides of carbon and lower molecular weight organic compounds whose composition have not been characterized. Phosphorus oxides.

# 11. Toxicological information

Information on likely routes of exposure

**Inhalation** May cause irritation to the respiratory system. Prolonged inhalation may be harmful.

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**Skin contact** Causes skin irritation. May cause an allergic skin reaction.

**Eye contact** Causes serious eye irritation.

**Ingestion** Suspected of damaging the unborn child by ingestion.

Symptoms related to the physical, chemical and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Coughing. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash. Prolonged exposure may cause chronic

effects.

Information on toxicological effects

Acute toxicity Not expected to be acutely toxic.

Components Species Test Results

2-Hydroxyethyl methacrylate (CAS 868-77-9)

<u>Acute</u>

**Dermal** 

LD50 Rabbit > 3000 mg/kg

Oral

LD50 Rat > 4000 mg/kg

Ethanol (CAS 64-17-5)

Acute Inhalation

Vapor

LC50 Mouse 39 g/m3, 4 Hours

Oral

LD50 Rat 7000 - 11000 mg/kg

**Skin corrosion/irritation** Causes skin irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** May cause an allergic skin reaction.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

**Carcinogenicity** Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed

NTP Report on Carcinogens

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

**Reproductive toxicity** Suspected of damaging the unborn child by ingestion.

Specific target organ toxicity -

single exposure

May cause respiratory irritation.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful.

12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

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Components Species Test Results

Ethanol (CAS 64-17-5)

Aquatic

Acute

Crustacea LC50 Ceriodaphnia dubia 5012 mg/l, 48 hours

Daphnia magna 454 mg/l, 11 days

Fish LC50 Pimephales promelas 13480 mg/l, 96 hours

Chronic

Crustacea NOEC Ceriodaphnia dubia 9.6 mg/l, 10 days

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

2-Hydroxyethyl methacrylate (CAS 868-77-9) 0.47 Ethanol (CAS 64-17-5) -0.31 Proprietary component 1.58

**Mobility in soil** No data available for this product.

Other adverse effects The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic

organisms.

13. Disposal considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site. 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 D002: Waste Corrosive material [pH <= 2 or =>12.5, or corrosive to steel]

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

UN number UN1170

UN proper shipping name Ethanol solutions

Transport hazard class(es)

Class 3
Subsidiary risk Label(s) 3
Packing group III

Environmental hazards

Marine pollutant No

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

Special provisions 24, B1, IB3, T2, TP1

Packaging exceptions4b, 150Packaging non bulk203Packaging bulk242

IATA

UN number UN1170

UN proper shipping name Ethanol solutions

Transport hazard class(es)

Class 3
Subsidiary risk Label(s) 3
Packing group III
Environmental hazards No

Prelude™ Primer SDS US

ERG Code 3L

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

**IMDG** 

UN number UN1170

UN proper shipping name ETHANOL SOLUTIONS

Transport hazard class(es)

Class 3
Subsidiary risk Packing group III
Environmental hazards

Marine pollutant No F-E. S-D

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

Transport in bulk according to

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.

Not established.

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)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

Classified hazard Flammable (gases, aerosols, liquids, or solids)

categories Skin corrosion or irritation

Yes

Serious eye damage or eye irritation Respiratory or skin sensitization

Reproductive toxicity

Specific target organ toxicity (single or repeated exposure)

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)

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Ethanol (CAS 64-17-5) Low priority

**US** state regulations

US. Massachusetts RTK - Substance List

Ethanol (CAS 64-17-5)

Proprietary component (CAS Proprietary)

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

Ethanol (CAS 64-17-5)

Prelude™ Primer SDS US

Proprietary component (CAS Proprietary)

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

Ethanol (CAS 64-17-5)

Proprietary component (CAS Proprietary)

#### US. Rhode Island RTK

Ethanol (CAS 64-17-5)

Proprietary component (CAS Proprietary)

#### **California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

#### **International Inventories**

Country(s) or region

Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	No

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

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

Inventory name

Issue date 19-April-2018

Revision date - 01

**NFPA** ratings



#### 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.

Prelude™ Primer SDS US

On inventory (yes/no)\*

No

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing

# ZEST DENTAL SOLUTIONS

# SAFETY DATA SHEET

#### 1. Identification

Product identifier Prelude™ Adhesive

Other means of identification

Document number SDS-022-ZD Rev. A

Recommended use Adhesive.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Supplier

Company name Danville Materials

Address 2875 Loker Avenue East

Carlsbad, CA 92010

Telephone1-800-827-7940ContactCustomer Service

E-mail danvillecs@zestdent.com

Website www.zestdent.com

**Emergency telephone** 

number

# 2. Hazard(s) identification

Physical hazardsFlammable liquidsCategory 3Health hazardsSkin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 2Sensitization, skinCategory 1

800-451-8346 / 760-602-8703

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

**OSHA** defined hazards

Label elements

943643



Not classified.

Signal word Warning

**Hazard statement** Flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. May cause an

allergic skin reaction. May cause respiratory irritation.

**Precautionary statement** 

Version #: 01

Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly

closed. Ground/bond container and receiving equipment. Use explosion-proof

electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist or vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be

allowed out of the workplace. Wear protective gloves/eve protection/face protection.

**Response** If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison

center/doctor if you feel unwell. In case of fire: Use water fog, alcohol resistant foam, dry chemical

powder, carbon dioxide to extinguish.

Issue date: 19-April-2018

**Storage** Keep cool. Store in a well-ventilated place. Keep container tightly closed. Store locked up.

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

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Revision date: -

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

None.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	CAS number	%
Ethanol	64-17-5	15 - 35
2-Hydroxyethyl methacrylate	868-77-9	10 - 30
Bisphenol A glycidyl methacrylate	1565-94-2	10 - 30

Composition comments

The manufacturer has claimed one or more hazardous ingredients as trade secret under the OSHA Hazard Communication Standard. The hazards of this (these) ingredient(s) are given on

All concentrations are in percent by weight.

#### 4. First-aid measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

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. Wash contaminated clothing before reuse.

Eye contact

Immediately flush eves with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion

Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Coughing. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

**General information** 

Take off all contaminated clothing immediately. If you feel unwell, seek medical advice (show the label where possible). 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

Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

of ignition and flash back. During fire, gases hazardous to health may be formed.

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

Specific hazards arising from the chemical

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

equipment/instructions

Specific methods General fire hazards In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Cool containers exposed to flames with water until well after the fire is out.

Use standard firefighting procedures and consider the hazards of other involved materials.

Flammable liquid and vapor.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Ventilate closed spaces before entering them. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). 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. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

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# Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

# **Environmental precautions**

# 7. Handling and storage

Precautions for safe handling

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. 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. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

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

Follow rules for flammable liquids. Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

#### Occupational exposure limits

Components	s for Air Contaminants (29 CFR 1910.1000) Type	Value	
Ethanol (CAS 64-17-5)	PEL	1900 mg/m3 1000 ppm	
US. ACGIH Threshold Limi	t Values		
Components	Туре	Value	
Ethanol (CAS 64-17-5)	STEL	1000 ppm	
US. NIOSH: Pocket Guide t	to Chemical Hazards		
Components	Туре	Value	
Ethanol (CAS 64-17-5)	TWA	1900 mg/m3	
		1000 ppm	
Proprietary component III	TWA	2.5 mg/m3	
logical limit values	No biological exposure limits noted for the ingredient(s).		

# Biol

Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. Good general ventilation 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 and eye wash facilities.

#### Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles) and a face shield. Wear a full-face respirator, if needed.

Skin protection

Wear appropriate chemical resistant gloves. Be aware that the liquid may penetrate the gloves. **Hand protection** 

Frequent change is advisable. Suitable gloves can be recommended by the glove supplier.

Skin protection

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

If engineering controls do not maintain airborne concentrations below recommended exposure Respiratory protection limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Wear NIOSH approved respirator

appropriate for airborne exposure at the point of use.

Prelude™ Adhesive SDS US **Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke. 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.

# 9. Physical and chemical properties

**Appearance** 

Physical state Liquid.
Form Liquid.
Color Light yellow.
Odor Not available.
Odor threshold Not available.

pH 2.2 (Approximately)Melting point/freezing point Not available.

Initial boiling point and boiling

range

Not available.

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

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

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials. Avoid heat, sparks, open flames and other ignition sources.

Protect against direct sunlight.

Incompatible materials Strong oxidizing agents.

**Hazardous decomposition** 

Version #: 01

products

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Thermal decomposition may produce smoke, oxides of carbon and lower molecular weight organic compounds whose composition have not been characterized. Silicon oxide fumes.

#### 11. Toxicological information

#### Information on likely routes of exposure

**Inhalation** May cause irritation to the respiratory system. Prolonged inhalation may be harmful.

**Skin contact** Causes skin irritation. May cause an allergic skin reaction.

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**Eye contact** Causes serious eye irritation.

Revision date: -

**Ingestion** May cause discomfort if swallowed.

Prelude™ Adhesive SDS US

Symptoms related to the physical, chemical and toxicological characteristics Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Coughing. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects

**Acute toxicity** Not expected to be acutely toxic.

**Test Results** Components **Species** 

2-Hydroxyethyl methacrylate (CAS 868-77-9)

**Acute** 

**Dermal** 

LD50 Rabbit > 3000 mg/kg

Oral

Rat LD50 > 4000 mg/kg

Ethanol (CAS 64-17-5)

**Acute** 

Inhalation

Vapor

LC50 Mouse 39 g/m3, 4 Hours

Oral

**LD50** Rat 7000 - 11000 mg/kg

Proprietary component I (CAS Proprietary)

**Acute** 

**Dermal** 

LD50 Rabbit 0.71 ml/kg

Inhalation

LC50 Rat 8.7 mg/l, 4 Hours

Oral

LD50 Rabbit 1100 mg/kg

> Rat 847 mg/kg

Causes skin irritation. Skin corrosion/irritation

Serious eve damage/eve

Causes serious eye irritation. irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

**NTP Report on Carcinogens** 

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Not classified. However: The product contains a small amount of substance that may damage the Reproductive toxicity

unborn child.

Specific target organ toxicity -

single exposure

May cause respiratory irritation.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful.

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

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#### 12. Ecological information

**Ecotoxicity** 

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components		Species	Test Results	
Ethanol (CAS 64-17-5	5)			
Aquatic				
Acute				
Crustacea	LC50	Ceriodaphnia dubia	5012 mg/l, 48 hours	
		Daphnia magna	454 mg/l, 11 days	
Fish	LC50	Pimephales promelas	13480 mg/l, 96 hours	
Chronic				
Crustacea	NOEC	Ceriodaphnia dubia	9.6 mg/l, 10 days	

Persistence and degradability

No data is available on the degradability of this product.

**Bioaccumulative potential** 

Partition coefficient n-octanol / water (log Kow)

2-Hydroxyethyl methacrylate (CAS 868-77-9)

Ethanol (CAS 64-17-5)

Proprietary component I

2.62

Proprietary component II

5.77

**Mobility in soil** No data available for this product.

Other adverse effects The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic

organisms.

#### 13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. 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).

Ethanol solutions

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

UN number UN1170

UN proper shipping name

Transport hazard class(es)

Class 3
Subsidiary risk Label(s) 3
Packing group III

**Environmental hazards** 

Marine pollutant No

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

Special provisions 24, B1, IB3, T2, TP1

Packaging exceptions 4b, 150
Packaging non bulk 203
Packaging bulk 242

**IATA** 

UN number UN1170

**UN proper shipping name** Ethanol solutions

Transport hazard class(es)

Class 3

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Subsidiary risk Label(s) 3
Packing group III
Environmental hazards No
ERG Code 3L

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

**IMDG** 

UN number UN1170

UN proper shipping name ETHANOL SOLUTIONS

Transport hazard class(es)

Class 3
Subsidiary risk Packing group III
Environmental hazards

Marine pollutant No EmS F-E, S-D

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

Transport in bulk according to

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.

Not established.

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)

Not regulated.

# Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes

chemical

Classified hazard Flammable (gases, aerosols, liquids, or solids)

categories Skin corrosion or irritation

Serious eye damage or eye irritation Respiratory or skin sensitization

Specific target organ toxicity (single or repeated exposure)

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)

# FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Ethanol (CAS 64-17-5) Low priority

Issue date: 19-April-2018

**US** state regulations

#### **US. Massachusetts RTK - Substance List**

Ethanol (CAS 64-17-5)

943643 Version #: 01 Revision date: -

Prelude<sup>™</sup> Adhesive SDS US

Proprietary component III (CAS Proprietary)

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

Ethanol (CAS 64-17-5)

Proprietary component I (CAS Proprietary)
Proprietary component III (CAS Proprietary)

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

Ethanol (CAS 64-17-5)

#### **US. Rhode Island RTK**

Ethanol (CAS 64-17-5)

# **California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

<sup>\*</sup>A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

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

**Issue date** 19-April-2018

Revision date - 01

NFPA ratings



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.

Prelude™ Adhesive SDS US

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

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

according to 29CFR1910/1200 and GHS Rev. 3

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#### Sure Etch

# SECTION 1: Identification of the substance/mixture and of the supplier

Product name: Sure Etch

Manufacturer/Supplier Trade name:

Manufacturer/Supplier Article number: 89011-00

Recommended uses of the product and restrictions on use:

Manufacturer Details:

Danville Materials 3420 Fostoria Way Suite a200 San Ramon, CA 94583

# **Supplier Details:**

Danville Materials 3420 Fostoria Way Suite a200 San Ramon, CA 94583

# **Emergency telephone number:**

ChemTrec Inc 1-800-424-9300,703-527-3887 (CHEMTREC)

# **SECTION 2: Hazards identification**

#### Classification of the substance or mixture:



#### Corrosive

Skin corrosion, category 1B Corrosive to metals, category 1 Serious eye damage, category 1

Corrosive to Metals 1.

Skin Corrosion 1B.

Serious eye damage 1. **Signal word**: Danger

#### **Hazard statements:**

May be corrosive to metals. Causes severe skin burns and eye damage.

#### **Precautionary statements:**

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Read label before use. Wear protective gloves/protective clothing/eye protection/face protection.

Keep only in original container.

Wash skin thoroughly after handling. Immediately call a POISON CENTER or doctor/physician.

Wash contaminated clothing before reuse.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

Absorb spillage to prevent material damage.

Specific treatment (see supplemental first aid instructions on this label). Store locked up.

Store in corrosive resistant stainless steel container with a resistant inner liner. Dispose of contents and container as instructed in Section 13.

# Other Non-GHS Classification:

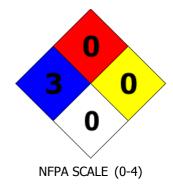
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#### Sure Etch

#### **WHMIS**



#### NFPA/HMIS





HMIS RATINGS (0-4)

# **SECTION 3: Composition/information on ingredients**

Ingredients:				
CAS 7664-38-2	Phosphoric Acid	34-48 %		
CAS 7732-18-5	Water	54-62 %		
CAS 56-81-5	Glycerin	1-5 %		
	•	Percentages are by weight		

#### **SECTION 4 : First aid measures**

# Description of first aid measures

After inhalation: Seek medical attention immediately. Move exposed individual to fresh air. Loosen clothing as necessary and position individual in a comfortable position.

After skin contact: Remove contaminated clothing and wash before reuse or discard. Wash affected area with soap and water. Rinse exposed skin with water for 20 minutes. Immediately seek medical attention.

After eye contact: Protect unexposed eye. Flush exposed eye gently using water for 15-20 minutes. Immediately seek medical attention. Continue rinsing eyes during transport to the hospital.

After swallowing: Seek medical attention immediately. Rinse mouth thoroughly. Do not induce vomiting. Have exposed individual drink sips of water.

# Most important symptoms and effects, both acute and delayed:

Irritation. Nausea. Headache. Shortness of breath. Spasm, inflammation and edema of the larynx. Burning sensation. Inflammation and edema of the bronchi, pneumonitis, pulmonary edema. 7664-38-2: Stomach -Irregularities - Based on Human Evidence. 7664-38-2: Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.

#### Indication of any immediate medical attention and special treatment needed:

If seeking medical attention, provide SDS document to physician.

# **SECTION 5 : Firefighting measures**

according to 29CFR1910/1200 and GHS Rev. 3

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#### Sure Etch

# Extinguishing media

**Suitable extinguishing agents**: Use water, dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam.

For safety reasons unsuitable extinguishing agents: None

#### Special hazards arising from the substance or mixture:

Hydrogen gas is released in contact with most metals. Thermal decomposition can lead to release of irritating gases and vapors.

# Advice for firefighters:

Protective equipment: Wear protective eyeware, gloves, and clothing. Refer to Section 8.

Additional information (precautions): None

#### SECTION 6 : Accidental release measures

# Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation. Ensure that air-handling systems are operational.

#### **Environmental precautions:**

Prevent from reaching drains, sewer or waterway. Collect contaminated soil for characterization per Section 13.

### Methods and material for containment and cleaning up:

Evacuate personnel to safe areas. Containerize for disposal. Refer to Section 13. Keep in suitable closed containers for disposal. Soak up with inert absorbent material. Wear protective eyeware, gloves, and clothing. Refer to Section 8. Always obey local regulations. If necessary use trained response staff or contractor.

# Reference to other sections:

None

#### SECTION 7: Handling and storage

#### Precautions for safe handling:

Wash hands after handling. Avoid contact with skin and eyes. Follow good hygiene procedures when handling chemical materials. Refer to Section 8. Follow proper disposal methods. Refer to Section 13. Do not eat, drink, smoke, or use personal products when handling chemical substances.

# Conditions for safe storage, including any incompatibilities:

Store in a cool location. Keep away from food and beverages. Protect from freezing and physical damage. Provide ventilation for containers. Keep container tightly sealed. Store away from incompatible materials.

### SECTION 8: Exposure controls/personal protection







#### **Control Parameters:**

7664-38-2, Phosphoric Acid, ACGIH TLV: 1 mg/m³ as TWA.

7664-38-2, Phosphoric Acid, ACGIH TLV 3 mg/m³ as STEL.

7664-38-2, Phosphoric Acid, OSHA PEL†: TWA 1 mg/m3 (See 29 CFR

1910.1000 Appendix G).

7664-38-2, Phosphoric Acid, NIOSH REL: TWA 1 mg/m3.

7664-38-2, Phosphoric Acid, NIOSH REL ST: 3 mg/m3.

7664-38-2, Phosphoric Acid, NIOSH IDLH: 1000 mg/m3.

# according to 29CFR1910/1200 and GHS Rev. 3

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#### Sure Etch

Appropriate Engineering controls: Emergency eye wash fountains and safety showers should be available in

> the immediate vicinity of use/handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits (Occupational

Exposure Limits-OELs) indicated above.

Respiratory protection: Not required under normal conditions of use. Where risk assessment

> shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. When necessary use NIOSH approved

breathing equipment.

Protection of skin: Select glove material impermeable and resistant to the substance. Select

> glove material based on rates of diffusion and degradation. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper glove removal technique without touching outer surface. Avoid skin contact with used gloves. Wear

protective clothing.

Eye protection: Wear equipment for eye protection tested and approved under

> appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles and faceshield (8 - inch minimum) are

appropriate eye protection.

General hygienic measures: Perform routine housekeeping. Wash hands before breaks and

immediately after handling the product. Avoid contact with skin, eyes,

and clothing. Before rewearing wash contaminated clothing.

# **SECTION 9 : Physical and chemical properties**

Appearance (physical state,color):	Red,slightly vicousliquid	Explosion limit lower: Explosion limit upper:	Not Determined Not Determined	
Odor:	None	Vapor pressure:	<1	
Odor threshold:	Not Determined	Vapor density:	Not Determined	
pH-value:	1 - 1.5	Relative density:	Not Determined	
Melting/Freezing point:	Not Determined	Solubilities:	Soluble in water.	
Boiling point/Boiling range:	220° C	Partition coefficient (noctanol/water):	Not Determined	
Flash point (closed cup):	Not Determined	Auto/Self-ignition temperature:	Not Determined	
Evaporation rate:	Not Determined	Decomposition temperature:	Not Determined	
Flammability (solid,gaseous):	Not Determined	Viscosity:	a. Kinematic: Not Determined b. Dynamic: Not Determined	
Density: >1.2				

# **SECTION 10: Stability and reactivity**

**Reactivity:** Nonreactive under normal conditions. Chemical stability: Stable under normal conditions.

Possible hazardous reactions: None under normal processing.

Conditions to avoid: Prolonged extreme heat.

according to 29CFR1910/1200 and GHS Rev. 3

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#### Sure Etch

**Incompatible materials:** Metals, strong bases, amines, alcohols, aldehydes.

**Hazardous decomposition products:** Oxides of phosphorus, reactions with certain metals may release explosive and flammable hydrogen gases.

# SECTION 11 : Toxicological information

Acute Toxicity:					
Oral:	7664-38-2	LD50 orl - rat: 1530 mg/m3			
Chronic Toxicity: No additional information.					
Corrosion Irritation:					
Dermal:	7664-38-2	Skin corrosion/irritation Irritating to skin.			
Ocular:	7664-38-2	Eyes - Rabbit Result : Corrosive to eyes			
Sensitization:		No additional information.			
Single Target Organ (STOT):		No additional information.			
Numerical Measures:		No additional information.			
Carcinogenicity:		No additional information.			
Mutagenicity:		No additional information.			
Reproductive Toxicity:		No additional information.			

# SECTION 12 : Ecological information

#### **Ecotoxicity**

**7664-38-2**: Phosphoric acid has moderate acute and chronic toxicity to aquatic life in waters of low alkalinity.

**Persistence and degradability:** Readily degradable in the environment.

Bioaccumulative potential: The phosphorus element is an essential nutrient for flora and fauna.

Mobility in soil: Aqueous solution has high mobility in soil.

Other adverse effects: None

# SECTION 13 : Disposal considerations

#### Waste disposal recommendations:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Cover spill with soda ash or calcium carbonate. Mix and add water to form slurry. Decant to drain. Treat the solid residue as normal refuse. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations. Ensure complete and accurate classification. Dispose of empty containers as unused product. Product or containers must not be disposed together with household garbage.

#### **SECTION 14: Transport information**

# **UN-Number**

1805

according to 29CFR1910/1200 and GHS Rev. 3

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#### Sure Etch

# **UN proper shipping name**

Phosphoric Acid Solution

# Transport hazard class(es)



Class:

8 Corrosive substances

Packing group: III

**Environmental hazard:** Not listed as a Marine Polllutant.

Transport in bulk:

Special precautions for user: None

# **SECTION 15: Regulatory information**

#### **United States (USA)**

# SARA Section 311/312 (Specific toxic chemical listings):

Acute, Chronic

#### SARA Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

#### RCRA (hazardous waste code):

None of the ingredients are listed.

#### TSCA (Toxic Substances Control Act):

All ingredients are listed.

# CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):

7664-38-2 Phosphoric acid 5000

# Proposition 65 (California):

#### Chemicals known to cause cancer:

None of the ingredients are listed.

# Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

# Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

#### Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

#### Canada

# Canadian Domestic Substances List (DSL):

All ingredients are listed.

#### Canadian NPRI Ingredient Disclosure list (limit 0.1%):

None of the ingredients are listed.

# Canadian NPRI Ingredient Disclosure list (limit 1%):

7664-38-2 Phosphoric acid

# **SECTION 16: Other information**

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the

according to 29CFR1910/1200 and GHS Rev. 3

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#### Sure Etch

SDS contains all the information required by the Controlled Products Regulations. Note. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

#### **GHS Full Text Phrases:**

None

# Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods PNEC: Predicted No-Effect Concentration (REACH)

CFR: Code of Federal Regulations (USA)

SARA: Superfund Amendments and Reauthorization Act (USA)

RCRA: Resource Conservation and Recovery Act (USA)

TSCA: Toxic Substances Control Act (USA)

NPRI: National Pollutant Release Inventory (Canada)

DOT: US Department of Transportation IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

DNEL: Derived No-Effect Level (REACH)

**Effective date**: 06.05.2015 **Last updated**: 06.17.2015