SAFETY DATA SHEETS

This SDS packet was issued with item:

072343390

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

072343374

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).

070841890 072343416 072343424 072343432 072343440 072343457 072343473 273036997



SAFETY DATA SHEET

1. Identification

in 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	
	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	Not classified.		

OSHA defined hazards Label elements



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

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Storage Disposal

Hazard(s) not otherwise

classified (HNOC)

Mixtures		·	A /
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 SDS. 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 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 immediate attention/advice. If you feel unwell, seek med that medical personnel are aware of the mat themselves. Show this safety data sheet to t before reuse.	dical advice (show the label w erial(s) involved, and take pre	here possible). Ensure cautions to protect
5. Fire-fighting measures			

Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2). Suitable extinguishing media Unsuitable extinguishing Do not use water jet as an extinguisher, as this will spread the fire. media Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source Specific hazards arising from of ignition and flash back. During fire, gases hazardous to health may be formed. the chemical Special protective equipment Self-contained breathing apparatus and full protective clothing must be worn in case of fire. and precautions for firefighters **Fire fighting** 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. equipment/instructions Use standard firefighting procedures and consider the hazards of other involved materials. Specific methods Flammable liquid and vapor. General fire hazards

6. Accidental release measures

protective equipment and emergency procedures Avoid breat appropriate	essary personnel away. Keep people away from and upwind of spill/leak. Ventilate es before entering them. Eliminate all ignition sources (no smoking, flares, sparks, or mediate area). Wear appropriate protective equipment and clothing during clean-up. ning mist or vapor. Do not touch damaged containers or spilled material unless wearing protective clothing. Local authorities should be advised if significant spillages cannot d. 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.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
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).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	
Ethanol (CAS 64-17-5)	PEL	1900 mg/m3	
		1000 ppm	
US. ACGIH Threshold Lin	nit Values		
Components	Туре	Value	
Ethanol (CAS 64-17-5)	STEL	1000 ppm	
Proprietary component	TWA	5 mg/m3	
US. NIOSH: Pocket Guide	to Chemical Hazards		
Components	Туре	Value	
Ethanol (CAS 64-17-5)	TWA	1900 mg/m3	
		1000 ppm	
Proprietary component	TWA	5 mg/m3	
ological limit values	No biological exposure limits noted for the ingredient(s).		
opropriate engineering ntrols	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.		
dividual protection measure	es, such as personal protective equip	ment	
Eye/face protection	Wear safety glasses with side shield needed.	ds (or goggles) and a face shield. Wear a full-face respirator,	
Skin protection			
Hand protection	Wear appropriate chemical resistant gloves. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier.		
Skin protection			
Other	Wear appropriate chemical resistan	t clothing. Use of an impervious apron is recommended.	
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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

5. Thysical and chemical p	hopenies
Appearance	
Physical state	Liquid.
Form	Clear liquid.
Color	Pink.
Odor	Not available.
Odor threshold	Not available.
рН	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 exp	losive 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 (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not 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 informat	ion

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.
1. f	4-

Acute toxicity	Not expected to be acutely toxic.		
Components	Species	Test Results	
2-Hydroxyethyl methacrylate (CAS	S 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 sensitizatio	n		
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 Carcinogen	S		
Not listed.	ed Substances (29 CFR 1910.1001-1053)		
Not regulated.			
Reproductive toxicity	Suspected of damaging the unborn child by ingestion.		
Specific target organ toxicity -			
single exposure			
Specific target organ toxicity -	Not classified.		
repeated exposure			
Aspiration hazard	Not an aspiration hazard.		
Chronic effects	Prolonged inhalation may be harmful.		
12. Ecological information	ı		
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)				
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	
rsistence and degradability	No data is	available on the degradability of this	product.	
accumulative potential				
Partition coefficient n-oct	anol / water (l	og Kow)		
2-Hydroxyethyl methacrylat	te (CAS 868-7			
Ethanol (CAS 64-17-5)		-0.31		
Proprietary component		1.58		
bility in soil	No data a	No data available for this product.		
ner 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 exceptions	4b, 150
Packaging non bulk	203
Packaging bulk	242
ΙΑΤΑ	
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

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ERG Code 3L boforo b

Special precautions for use	${f r}$ Read safety instructions, SDS and emergency procedures before handling.
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
	 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	NUL ESTADIISTICU.
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 Substa	nce List (40 CFR 302.4)
Not listed. SARA 304 Emergency relea	se notification
	d Substances (29 CFR 1910.1001-1053)
Not regulated.	
SARA 302 Extremely hazard	authorization Act of 1986 (SARA) Ious substance
Not listed.	
SARA 311/312 Hazardous chemical	Yes
Classified hazard categories	Flammable (gases, aerosols, liquids, or solids) Skin corrosion or irritation 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 (SDWA)	Not regulated.
FEMA Priority Substance	ces Respiratory Health and Safety in the Flavor Manufacturing Workplace
Ethanol (CAS 64-17-	
US state regulations	-,
US. Massachusetts RTK - S	ubstance List
Ethanol (CAS 64-17-5)	
Proprietary component (C	CAS Proprietary)
	Community Right-to-Know Act
Ethanol (CAS 64-17-5)	

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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	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
*A "Ves" indicates this product of	complies with the inventory requirements administered by the governing $country(s)$	

*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	19-April-2018
Revision date	-
Version #	01
NFPA ratings	2 0

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.



SAFETY DATA SHEET

1. Identification

Product identifier	Prelude™ Link
Other means of identification	
Document number	SDS-021-ZD Rev. A
Recommended use	Adhesive cure converter.
Recommended restrictions	None known.
Manufacturer/Importer/Supplier/I	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 2
Health hazards	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2
	Sensitization, skin	Category 1
OSHA defined hazards	Not classified.	

Label elements



Signal word	Danger
Hazard statement	Highly flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction.
Precautionary statement	
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. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/eye 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. In case of fire: Use water fog, alcohol resistant foam, dry chemical powder, carbon dioxide to extinguish.
Storage	Store in a well-ventilated place. Keep cool.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
lazard(s) not otherwise lassified (HNOC)	None known.
Supplemental information	None.

Prelude™ Link

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3. Composition/information on ingredients

Mixtures

Chemical name		CAS number	%
Ethanol		64-17-5	80 - 98
Proprietary components		Mixture	1 - 7
Bisphenol A glycidyl methacrylate		1565-94-2	0.5 - 5
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 SDS. All concentrations are in percent by weight.		
4. First-aid measures			
Inhalation	Move to fresh air. Call a physician if symptoms of	levelop or persist.	
Skin contact	Remove contaminated clothing immediately and eczema or other skin disorders: Seek medical at contaminated clothing before reuse.		
Eye contact	Immediately flush eyes with plenty of water for a present and easy to do. Continue rinsing. Get m	t least 15 minutes. Removed the second structure to th	e contact lenses, if 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 stir vision. Coughing. Skin irritation. May cause redn Dermatitis. Rash.		
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. 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	Water fog. Alcohol resistant foam. Dry chemical	powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	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 prote	ective clothing must be wo	rn in case of fire.
Fire fighting equipment/instructions	In case of fire and/or explosion do not breathe fu so without risk. Cool containers exposed to flam		
Specific methods	Use standard firefighting procedures and consid	er the hazards of other inv	olved materials.
General fire hazards	Highly flammable liquid and vapor.		
6. Accidental release meas	sures		
Porsonal procautions	Keen unnecessary personnel away. Keen people	a away from and upwind a	fanill/look Vantilata

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.

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.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
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. 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

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value
Ethanol (CAS 64-17-5)	PEL	1900 mg/m3 1000 ppm
US. ACGIH Threshold Lim	it Values	
Components	Туре	Value
Ethanol (CAS 64-17-5)	STEL	1000 ppm
US. NIOSH: Pocket Guide	to Chemical Hazards	
Components	Туре	Value
Ethanol (CAS 64-17-5)	TWA	1900 mg/m3 1000 ppm
iological limit values	No biological exposure limits noted	for the ingredient(s).
ppropriate engineering		exhaust ventilation. Good general ventilation should be used.
ontrols	exhaust ventilation, or other engine exposure limits. If exposure limits h acceptable level. Provide easy acc	d to conditions. If applicable, use process enclosures, local ering controls to maintain airborne levels below recommended ave not been established, maintain airborne levels to an ess to water supply and eye wash facilities.
ontrols	exhaust ventilation, or other engine exposure limits. If exposure limits h acceptable level. Provide easy acc s, such as personal protective equip	d to conditions. If applicable, use process enclosures, local ering controls to maintain airborne levels below recommended ave not been established, maintain airborne levels to an ess to water supply and eye wash facilities. ment
ontrols	exhaust ventilation, or other engine exposure limits. If exposure limits h acceptable level. Provide easy acc s, such as personal protective equip	d to conditions. If applicable, use process enclosures, local ering controls to maintain airborne levels below recommended ave not been established, maintain airborne levels to an ess to water supply and eye wash facilities. ment
ontrols	exhaust ventilation, or other engine exposure limits. If exposure limits h acceptable level. Provide easy acce s, such as personal protective equip Wear safety glasses with side shiel	d to conditions. If applicable, use process enclosures, local ering controls to maintain airborne levels below recommended ave not been established, maintain airborne levels to an ess to water supply and eye wash facilities.
ontrols ndividual protection measures Eye/face protection	exhaust ventilation, or other engine exposure limits. If exposure limits h acceptable level. Provide easy acce s, such as personal protective equip Wear safety glasses with side shiel needed. Wear appropriate chemical resistar	d to conditions. If applicable, use process enclosures, local ering controls to maintain airborne levels below recommended ave not been established, maintain airborne levels to an ess to water supply and eye wash facilities. ment
ndividual protection measures Eye/face protection Skin protection	exhaust ventilation, or other engine exposure limits. If exposure limits h acceptable level. Provide easy acce s, such as personal protective equip Wear safety glasses with side shiel needed. Wear appropriate chemical resistar	d to conditions. If applicable, use process enclosures, local being controls to maintain airborne levels below recommended ave not been established, maintain airborne levels to an ess to water supply and eye wash facilities. ment ds (or goggles) and a face shield. Wear a full-face respirator, i and a face shield. Wear a full-face respirator, i
ndividual protection measures Eye/face protection Skin protection Hand protection	 exhaust ventilation, or other engine exposure limits. If exposure limits h acceptable level. Provide easy acce s, such as personal protective equip Wear safety glasses with side shiel needed. Wear appropriate chemical resistar Frequent change is advisable. Suita 	d to conditions. If applicable, use process enclosures, local being controls to maintain airborne levels below recommended ave not been established, maintain airborne levels to an less to water supply and eye wash facilities. ment ds (or goggles) and a face shield. Wear a full-face respirator, i and a face shield. Wear a full-face respirator, i
ndividual protection measures Eye/face protection Skin protection Hand protection Skin protection	 exhaust ventilation, or other engine exposure limits. If exposure limits h acceptable level. Provide easy acce s, such as personal protective equip Wear safety glasses with side shiel needed. Wear appropriate chemical resistar Frequent change is advisable. Suita Wear appropriate chemical resistar If engineering controls do not maint limits (where applicable) or to an acceptable 	d to conditions. If applicable, use process enclosures, local being controls to maintain airborne levels below recommended ave not been established, maintain airborne levels to an ess to water supply and eye wash facilities. ment ds (or goggles) and a face shield. Wear a full-face respirator, i and gloves. Be aware that the liquid may penetrate the gloves. able gloves can be recommended by the glove supplier. In clothing. Use of an impervious apron is recommended. tain airborne concentrations below recommended exposure compatible level (in countries where exposure limits have not spirator must be worn. Wear NIOSH approved respirator

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	Clear liquid.
Color	Colorless.
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
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 exp	losive 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 (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not 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 Thermal decomposition may produce smoke, oxides of carbon and lower molecular weight organic compounds whose composition have not been characterized.

11. Toxicological information

Information on li	ikely routes	of exposure	
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Inhalation	Prolonged inhalation may be harmful.
Skin contact	Causes skin irritation. May cause an allergic skin reaction.
Eye contact	Causes serious eye irritation.
Ingestion	May cause discomfort if swallowed.

Acute toxicity

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

Information on toxicological effects

Not expected to be acutely toxic.

Acute toxicity	Not expec	led to be acutely toxic.	
Components	Species	B	Test Results
Ethanol (CAS 64-17-5)			
<u>Acute</u>			
Inhalation			
Vapor	Massa		
LC50	Mouse		39 g/m3, 4 Hours
Oral	Det		7000 11000 mg//rg
LD50	Rat		7000 - 11000 mg/kg
Skin corrosion/irritation		kin irritation.	
Serious eye damage/eye irritation	Causes se	erious eye irritation.	
Respiratory or skin sensitization			
Respiratory sensitization	Not a resp	piratory sensitizer.	
Skin sensitization	•	e an allergic skin reaction.	
Germ cell mutagenicity		vailable to indicate product or any or genotoxic.	components present at greater than 0.1% are
Carcinogenicity	Not classi	fiable as to carcinogenicity to hum	ans.
IARC Monographs. Overall	Evaluation	of Carcinogenicity	
Not listed. NTP Report on Carcinogen	IS		
Not listed. OSHA Specifically Regulat	ed Substanc	es (29 CFR 1910.1001-1053)	
Not regulated.			
Reproductive toxicity	This produ	uct is not expected to cause reproc	luctive or developmental effects.
Specific target organ toxicity - single exposure	Not classi	fied.	
Specific target organ toxicity - repeated exposure	Not classi	fied.	
Aspiration hazard	Not an as	piration hazard.	
Chronic effects	Prolonged inhalation may be harmful.		
12. Ecological informatio	n		
Ecotoxicity	· · · · · ·		ally hazardous. However, this does not exclude the average a harmful or damaging effect on the environment.
Components	P	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 Bioaccumulative potential	No data is	available on the degradability of t	his product.
Partition coefficient n-octa	nol / water (l	og Kow)	
Ethanol (CAS 64-17-5) Proprietary component	iioi / water (I	-0.31 1.88	
		1.00	
Prelude™ Link			SDS US

Prelude™ Link

943642 Version #: 01 Revision date: - Issue date: 19-April-2018

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.

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).
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	
Environmental hazards	
Marine pollutant	No
•	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
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	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 (Standard, 29 CFR 1910.1200.	Communication
TSCA Section 12(b) Export I	Notification (40 CFR 707, Subpt. D)	
Not regulated.		
CERCLA Hazardous Substa	nce List (40 CFR 302.4)	
Not listed.		
SARA 304 Emergency released	se notification	
Not regulated.		
	d Substances (29 CFR 1910.1001-1053)	
Not regulated.		
-	authorization Act of 1986 (SARA)	
SARA 302 Extremely hazard	lous substance	
Not listed.		
SARA 311/312 Hazardous chemical	Yes	
Classified hazard	Flammable (gases, aerosols, liquids, or solids)	
categories	Skin corrosion or irritation	
	Serious eye damage or eye irritation Respiratory or skin sensitization	
CADA 242 (TDI reporting)		
SARA 313 (TRI reporting) Not regulated.		
C C		
Other federal regulations		
Clean Air Act (CAA) Section	112 Hazardous Air Pollutants (HAPs) List	
Not regulated.		
	112(r) Accidental Release Prevention (40 CFR 68.130)	
Not regulated.		
Safe Drinking Water Act	Not regulated.	
(SDWA)		
(SDWA)	es Respiratory Health and Safety in the Flavor Manufacturing Workpla	се
(SDWA)	es Respiratory Health and Safety in the Flavor Manufacturing Workpla	Ce
(SDWA) FEMA Priority Substance Ethanol (CAS 64-17-	es Respiratory Health and Safety in the Flavor Manufacturing Workpla	ce
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Country(s) or region	Inventory name	On inventory (yes/no)*
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
*A "Yes" indicates this product co	omplies 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	19-April-2018
Revision date	-
Version #	01
NFPA ratings	
	2 0
	\checkmark

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.