


## SAFETY DATA SHEET

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

[1a,b 1.1] <b>PRODUCT IDENTIFIERS/ TRADE NAME(s)</b>	<b>Aculon® Hydroxyl Adhesion Promoter</b>	[1c 1.2] <b>RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST</b>	<b>Adhesion Promoter coating</b>
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<p style="text-align: center;">1.3 Details of the supplier of the safety data sheet</p> <div style="text-align: center;">  <p>11839 Sorrento Valley Road Suite 901 San Diego, CA 92121 phone 858-350-9474 fax 858-350-9422 Email: <a href="mailto:support@aculon.com">support@aculon.com</a> <a href="http://www.aculon.com">www.aculon.com</a></p> </div>	<p style="text-align: center;">1.4 Emergency telephone number</p> <p style="text-align: center;"><b>Emergency Telephone Number</b> <sup>[1E]</sup></p> <p style="text-align: center;">Chemtel Chemical 1-800-255-3924 (US/Canada) +1-813-248-0585 (International)</p> <p style="text-align: center;">Revision Date: 10/01/2018</p>
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### SECTION 2: Hazards identification

**[2A] GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

**2.1 Classification of the substance or mixture**  
**Classification according to Regulation (EC) No 1272/2008**

Not a hazardous substance or mixture.

**2.2 Label elements Labelling according Regulation (EC) No 1272/2008**

**[2B] LABELING ELEMENTS, Hazard, and Precautionary Statements**

Not a hazardous substance or mixture.

**[2C 2.3] OTHER HAZARDS NOT OTHERWISE CLASSIFIED:** This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**[2D] INGREDIENTS OF UNKNOWN ACUTE TOXICITY >= 1%:** none

### SECTION 3: Composition/information on ingredients

<b>Hazardous ingredients according to Regulation (EC) No 1272/2008 and 29 CFR 1910 (OSHA HCS)</b>		
Component	Classification	Concentration
<b>Proprietary Phosphonic Acid</b> formula: proprietary Mol wt.: proprietary		
CAS-No. proprietary  EC-No. n/a Index-No. n/a Reach: n/a	No ingredients are hazardous according to OSHA criteria. No components need to be disclosed according to the applicable regulations.	94 - 100%

\* The specific chemical identity and/or percentage of this material has been withheld as a trade secret.

**SECTION 4: First aid measures**

<b>4.1 Description of first aid measures</b>	
<b>General advice</b>	Consult a physician. Show this safety data sheet to the doctor in attendance.
<sup>[4a]</sup> <b>INHALATION</b>	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
<sup>[4a]</sup> <b>SKIN CONTACT</b>	Wash off with soap and plenty of water.
<sup>[4a]</sup> <b>EYE CONTACT</b>	Rinse thoroughly with plenty of water for at least 15 minutes.
<sup>[4a]</sup> <b>INGESTION</b>	If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with water.
<sup>[4b]</sup> <b>MOST IMPORTANT SYMPTOMS &amp; EFFECTS</b>	The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11
<sup>[4c]</sup> <b>INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED</b>	no data available

**SECTION 5: Firefighting measures**

<sup>[5a]</sup> <b>5.1 Extinguishing Media/SUITABLE/ UNSUITABLE EXTINGUISHING MEDIA</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<sup>[5b]</sup> <b>5.2 SPECIFIC HAZARDS ARISING FROM THE SUBSTANCE OR</b>	Burning may form Carbon Oxides and Oxides of phosphorus

<b>MIXTURE( IE HAZARDOUS COMBUSTION PRODUCTS)</b>	
<sup>[5c]</sup> <b>5.3</b> <b>ADVICE FOR FIREFIGHTERS/ PRECAUTIONS / SPECIAL PROTECTIVE EQUIPMENT</b>	Wear self contained breathing apparatus for fire fighting if necessary.
<b>5.4 FURTHER INFORMATION</b>	No data available

**SECTION 6: Accidental release measures**

<sup>[6a]</sup> <b>6.1 PERSONAL PRECAUTIONS, PPE, EMERGENCY PROCEDURES</b>	Avoid dust formation. Avoid breathing vapours, mist or gas. For personal protection see section 8.
<b>6.2 Environmental precautions</b>	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
<sup>[6a]</sup> <b>6.3 METHODS &amp; MATERIALS FOR CONTAINMENT &amp; CLEANING UP</b>	Sweep up and shovel. Keep in suitable, closed containers for disposal according to local regulations (see section 13).
<b>6.4 REFERENCE TO OTHER SECTIONS</b>	For disposal see section 13.

**SECTION 7: Handling and storage**

<sup>[7a]</sup> <b>7.1 PRECAUTIONS FOR SAFE HANDLING</b>	Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.
<sup>[7b]</sup> <b>7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES</b>	Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
<sup>7.3</sup> <b>SPECIFIC END USES</b>	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

**SECTION 8: Exposure controls/personal protection**

<b>8.1 CONTROL PARAMETERS: COMPONENTS WITH WORKPLACE CONTROL PARAMETERS</b>				
<sup>[8a]</sup> COMPONENT	CAS#	PEL/ TWA/ STEL	CONTROL PARAMETERS	BASIS (ACGIH, OSHA ETC)

Contains no substances with occupational exposure limit values.				Contains no substances with occupational exposure limit values.
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<sup>[8b]</sup> <b>8.2 EXPOSURE CONTROLS/ VENTILATION / ENGINEERING CONTROLS</b>	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
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**PERSONAL PROTECTIVE EQUIPMENT**

<sup>[8c]</sup> <b>RESPIRATORY PROTECTION</b>	Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
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<sup>[8c]</sup> <b>SKIN PROTECTION</b>	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
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<sup>[8c]</sup> <b>EYE PROTECTION</b>	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
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<sup>[8c]</sup> <b>CLOTHING/BODY PROTECTION</b>	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
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<b>CONTROL OF ENVIRONMENTAL EXPOSURE</b>	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
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**SECTION 9: Physical and chemical properties**

<sup>[9a]</sup> <b>Appearance (physical state, color, etc.</b>	solid	<sup>[9j]</sup> <b>Upper/lower flammability or explosive limits:</b>	no data available
<sup>[9b]</sup> <b>Odor</b>	no data available	<sup>[9k]</sup> <b>Vapor pressure</b>	no data available
<sup>[9c]</sup> <b>Odor threshold</b>	no data available	<sup>[9l]</sup> <b>Vapor density</b>	no data available
<sup>[9d]</sup> <b>pH</b>	no data available	<sup>[9m]</sup> <b>Relative Density</b>	no data available
<sup>[9e]</sup> <b>Melting point/freezing point</b>	no data available.	<sup>[9n]</sup> <b>Solubility (in H<sub>2</sub>O)</b>	no data available
<sup>[9f]</sup> <b>Initial boiling point and boiling range</b>	no data available	<sup>[9o]</sup> <b>Partition coefficient: n-octanol/water</b>	no data available
<sup>[9g]</sup> <b>Flash point</b>	no data available	<sup>[9p]</sup> <b>Auto-ignition temperature</b>	no data available)
<sup>[9h]</sup> <b>Evaporation rate</b>	no data available	<sup>[9q]</sup> <b>Decomposition temperature</b>	no data available
<sup>[9i]</sup> <b>Flammability (solid, gas)</b>	no data available	<sup>[9r]</sup> <b>Viscosity</b>	no data available
		<sup>[9s]</sup> <b>Explosive Properties</b>	no data available
		<sup>[9t]</sup> <b>Oxidizing Properties</b>	no data available

<b>9.2 Other safety information:</b>	No data available		
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**SECTION 10: Stability and reactivity**

[10a 10.1] <b>REACTIVITY</b>	no data available
[10b 10.2] <b>CHEMICAL STABILITY</b>	Stable under recommended storage conditions..
[10c 10.3] <b>POSSIBILITIES OF HAZARDOUS REACTIONS</b>	no data available
[10d 10.4] <b>CONDITIONS TO AVOID</b>	no data available
[10e 10.5] <b>INCOMPATIBLE MATERIALS</b>	Strong oxidizing agents
[10f 10.6] <b>HAZARDOUS DECOMPOSITION PRODUCTS</b>	Other decomposition products - no data available In the event of fire: see section 5

**SECTION 11: Toxicological information**

[11a] <b>LIKELY ROUTES OF EXPOSURE</b>	<p>INHALATION: is not expected if proper ventilation or personal protective equipment is used while working with this product</p> <p>INGESTION: Ingestion is not expected if proper industrial hygiene practices are followed, including no eating, drinking, or smoking while working with chemicals</p> <p>SKIN: is not expected if proper personal protective equipment (gloves and protective clothing) is used while working with this product</p> <p>EYE CONTACT: is not expected if proper personal protective equipment (safety glasses or goggles) is used while working with this product</p>
[11b] <b>SYMPTOMS RELATED TO PHYSICAL, CHEMICAL &amp; TOXIC CHARACTERISTICS</b>	<p>INHALATION: no data available</p> <p>INGESTION: Skin corrosion/irritation: no data available</p> <p>SKIN: Serious eye damage/eye irritation: no data available</p> <p>EYE CONTACT: no data available</p>
[11d] <b>DELAYED / IMMEDIATE EFFECTS, CHRONIC EFFECTS FROM SHORT/LONG TERM EXPOSURE</b>	<p><b>Reproductive toxicity:</b> no data available</p> <p><b>Specific target organ toxicity - single exposure:</b> no data available</p> <p><b>Specific target organ toxicity - repeated exposure:</b> no data available</p> <p><b>Aspiration hazard:</b> no data available</p>
[11D] <b>NUMERICAL MEASURES OF TOXICITY</b>	<p><b>ACUTE TOXICITY ESTIMATES:</b> none known</p> <p><b>Acute toxicity</b> no data available</p> <p><b>SKIN CORROSION/IRRITATION</b> no data available</p> <p><b>Serious eye damage/eye irritation</b> no data available</p> <p><b>Respiratory or skin sensitization</b> No data available</p>

	<b>Germ cell mutagenicity</b> No data available
<sup>[11e]</sup> <b>CARCINOGENICITY</b>	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
<b>ADDITIONAL INFORMATION</b>	RTECS: Not available To the best of our

**SECTION 12: Ecological information**

<sup>[12a 12.1]</sup> <b>ECOTOXICITY</b>	no data available
<sup>[12b 12.2]</sup> <b>PERSISTENCE AND DEGRADABILITY</b>	No data available
<sup>[12c 12.3]</sup> <b>BIOACCUMULATIVE POTENTIAL</b>	no data available
<sup>[12d 12.4]</sup> <b>MOBILITY IN SOIL</b>	No data available
<sup>12.5</sup> <b>RESULTS OF PBT AND vPvB ASSESSMENT</b>	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
<sup>[12e 12.6]</sup> <b>OTHER ADVERSE EFFECTS (OZONE LAYER ETC.)</b>	No data available

**SECTION 13: Disposal considerations**

<sup>[13]</sup> Offer surplus and non-recyclable solutions to a licensed disposal company. Contaminated Packaging Disposal: Dispose of as unused product.
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**SECTION 14: Transport information**

	<b>14.1[a] UN number</b>	<b>14.2[b] UN proper shipping name</b>	<b>14.3[c] Transport hazard class(es)</b>	<b>14.4[d] Packaging group</b>	<b>14.5[e] Environmental hazards</b>
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Not dangerous goods					
IMDG:	Not dangerous goods				
IATA:	Not dangerous goods				
<b>US DOT</b>	Not dangerous goods				

<sup>[14d]</sup> <b>ENVIRONMENTAL HAZARDS</b>	Marine Pollutant: no
<sup>[14f]</sup> <b>BULK TRANSPORT (MARPOL 73/78/IBC CODE)</b>	<b>IMDG: NOT APPLICABLE</b>
<sup>[14g]</sup> <b>SPECIAL PRECAUTIONS</b>	none known

**SECTION 15: Regulatory information**

<b>EU</b>	
This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.	
<b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	No data available
<b>15.2 Chemical Safety Assessment</b>	For this product a chemical safety assessment was not carried out

**US**

<b>TSCA</b>	The components in this mixture are listed on the US inventory.
<b>OSHA</b>	This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard.
<b>SARA SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES</b>	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
<b>The following components are subject to reporting levels established by SARA Title III, Section 313</b>	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
<b>Sara 311/312 Hazards</b>	No SARA Hazards
<b>Massachusetts Right To Know Components</b>	No components are subject to the Right to Know Act.
<b>Pennsylvania Right To Know Components</b>	No components are subject to the Right to Know Act.
<b>New Jersey Right To Know Components</b>	No components are subject to the Right to Know Act.
<b>California Prop. 65 Components</b>	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**SECTION 16: Other information**

Revision Date: 10/01/2018 version 2.0 updated emergency contact and trademarks  
07/15/15 version 1.0 original issue

HMIS Rating

Health hazard: 0

Chronic Health Hazard:

Flammability: 0

Physical Hazard 0

NFPA Rating

Health hazard: 0

Fire Hazard: 0

Reactivity Hazard: 0

INFORMATION CONTAINED IN THIS SAFETY DATA SHEET IS FOR USE BY TECHNICALLY QUALIFIED PERSONNEL AT THEIR DISCRETION AND RISK. ALL STATEMENTS, TECHNICAL INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE BASED ON TESTS AND DATA WHICH WE BELIEVE TO BE RELIABLE, BUT THE ACCURACY OR COMPLETENESS THEREOF IS NOT GUARANTEED AND NO WARRANTY OF ANY KIND IS MADE WITH RESPECT THERETO. SINCE THE COMPANY SHALL HAVE NO CONTROL OF THE USE OF THE PRODUCT DESCRIBED HEREIN, THE COMPANY ASSUMES NO LIABILITY OF LOSS OR DAMAGE INCURRED FROM THE PROPER OR IMPROPER USE OF SUCH PRODUCT.

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