

SAFETY DATA SHEET

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

[1a,b 1.1] PRODUCT IDENTIFIERS/ TRADE NAME(s)	Aculon® Thiol Adhesion Promoter	[1c 1.2] RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST	Adhesion Promoter coating
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1.3 Details of the supplier of the safety data sheet



[1D]
 11839 Sorrento Valley Road Suite 901
 San Diego, CA 92121
 phone 858-350-9474
 fax 858-350-9422
 Email: support@aculon.com
www.aculon.com

1.4 Emergency telephone number

Emergency Telephone Number [1E]

Chemtel Chemical
 1-800-255-3924 (US/Canada)
 +1-813-248-0585 (International)

Revision Date: 10/01/2018

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

Hazardous ingredients according to Regulation (EC) No 1272/2008 and 29 CFR 1910 (OSHA HCS)

Component	Classification	Concentration
Proprietary Phosphonic Acid 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

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

SECTION 5: Firefighting measures

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

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

SECTION 6: Accidental release measures

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

SECTION 7: Handling and storage

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

SECTION 8: Exposure controls/personal protection

8.1 CONTROL PARAMETERS: COMPONENTS WITH WORKPLACE CONTROL PARAMETERS				
^[8a] 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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^[8b] 8.2 EXPOSURE CONTROLS/ VENTILATION / ENGINEERING CONTROLS	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

^[8c] RESPIRATORY PROTECTION	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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^[8c] SKIN PROTECTION	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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^[8c] EYE PROTECTION	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
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^[8c] CLOTHING/BODY PROTECTION	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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CONTROL OF ENVIRONMENTAL EXPOSURE	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

^[9a] Appearance (physical state, color, etc.	solid	^[9j] Upper/lower flammability or explosive limits:	no data available
^[9b] Odor	no data available	^[9k] Vapor pressure	no data available
^[9c] Odor threshold	no data available	^[9l] Vapor density	no data available
^[9d] pH	no data available	^[9m] Relative Density	no data available
^[9e] Melting point/freezing point	no data available.	^[9n] Solubility (in H₂O)	no data available
^[9f] Initial boiling point and boiling range	no data available	^[9o] Partition coefficient: n-octanol/water	no data available
^[9g] Flash point	no data available	^[9p] Auto-ignition temperature	no data available)
^[9h] Evaporation rate	no data available	^[9q] Decomposition temperature	no data available
^[9i] Flammability (solid, gas)	no data available	^[9r] Viscosity	no data available
		^[9s] Explosive Properties	no data available
		^[9t] Oxidizing Properties	no data available

9.2 Other safety information:	No data available		
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SECTION 10: Stability and reactivity

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

SECTION 11: Toxicological information

[11a] LIKELY ROUTES OF EXPOSURE	<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] SYMPTOMS RELATED TO PHYSICAL, CHEMICAL & TOXIC CHARACTERISTICS	<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] DELAYED / IMMEDIATE EFFECTS, CHRONIC EFFECTS FROM SHORT/LONG TERM EXPOSURE	<p>Reproductive toxicity: no data available</p> <p>Specific target organ toxicity - single exposure: no data available</p> <p>Specific target organ toxicity - repeated exposure: no data available</p> <p>Aspiration hazard: no data available</p>
[11D] NUMERICAL MEASURES OF TOXICITY	<p>ACUTE TOXICITY ESTIMATES: none known</p> <p>Acute toxicity no data available</p> <p>SKIN CORROSION/IRRITATION no data available</p> <p>Serious eye damage/eye irritation no data available</p> <p>Respiratory or skin sensitization No data available</p>

	Germ cell mutagenicity No data available
^[11e] CARCINOGENICITY	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.
ADDITIONAL INFORMATION	RTECS: Not available To the best of our

SECTION 12: Ecological information

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

SECTION 13: Disposal considerations

^[13] Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated Packaging Disposal: Dispose of as unused product.

SECTION 14: Transport information

	14.1[a] UN number	14.2[b] UN proper shipping name	14.3[c] Transport hazard class(es)	14.4[d] Packaging group	14.5[e] Environmental hazards

Not dangerous goods					
IMDG:	Not dangerous goods				
IATA:	Not dangerous goods				
US DOT	Not dangerous goods				

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

SECTION 15: Regulatory information

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

US

TSCA	The components in this mixture are listed on the US inventory.
OSHA	This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard.
SARA SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
The following components are subject to reporting levels established by SARA Title III, Section 313	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.
Sara 311/312 Hazards	No SARA Hazards
Massachusetts Right To Know Components	No components are subject to the Right to Know Act.
Pennsylvania Right To Know Components	No components are subject to the Right to Know Act.
New Jersey Right To Know Components	No components are subject to the Right to Know Act.
California Prop. 65 Components	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

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