

# SAFETY DATA SHEET

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

<small>[1a,b 1.1]</small> <b>PRODUCT IDENTIFIERS/ TRADE NAME(s)</b>	<b>Aculon® Sapphire Primer Wipe</b>	<small>[1c 1.2]</small> <b>RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST</b>	<b>Sapphire Primer/adhesion promoter, IPA based wipe</b>
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### 1.3 Details of the supplier of the safety data sheet



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

### 1.4 Emergency telephone number

## Emergency Telephone Number <sup>[1E]</sup>

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

Revision Date: 10/1/2018

## SECTION 2: Hazards identification

### <sup>[2A]</sup> 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

Flammable liquids (Category 2), H225

Eye irritation (Category 2), H319

Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336

For the full text of the H-Statements mentioned in this Section, see Section 16.

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

#### <sup>[2B]</sup> LABELING ELEMENTS, Hazard, and Precautionary Statements

**Signal word:** Danger

**Pictogram(s):**



#### **Hazard statement(s):**

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

#### **Precautionary statement(s)**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P261 Avoid breathing vapours.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 Supplemental Hazard Statements: none

[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
<b>2-Propanol</b> ; sec-Propyl alcohol; Isopropyl alcohol; Isopropanol formula: (CH <sub>3</sub> ) <sub>2</sub> CHOH Mol wt.: 60.10		
CAS-No. 67-63-0 EC-No.200-661-7 Index-No.603-117-00-0 Reach: 01-2119457558-25-xxxx	Flam. Liq. 2; Eye Irrit. 2; STOT SE 3; H225, H319, H336	99 - 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

<b>General advice</b>	Consult a physician. Show this safety data sheet to the doctor in attendance.
[4a] <b>INHALATION</b>	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
[4a] <b>SKIN CONTACT</b>	Wash off with soap and plenty of water. Consult a physician.
[4a] <b>EYE CONTACT</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
[4a] <b>INGESTION</b>	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
[4b] <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
[4c] <b>INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT</b>	no data available

<b>NEEDED</b>	
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**SECTION 5: Firefighting measures**

<sup>[5a]</sup> 5.1 <b>Extinguishing Media/SUITABLE/ UNSUITABLE EXTINGUISHING MEDIA</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<sup>[5b]</sup> 5.2 <b>SPECIFIC HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE( IE HAZARDOUS COMBUSTION PRODUCTS)</b>	Burning may form Carbon oxides. Use water spray to cool unopened containers.
<sup>[5c]</sup> 5.3 <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>	Use water spray to cool unopened containers.

**SECTION 6: Accidental release measures**

<sup>[6a]</sup> 6.1 <b>PERSONAL PRECAUTIONS, PPE, EMERGENCY PROCEDURES</b>	Use personal protective equipment. Avoid breathing vapours. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. 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> 6.3 <b>METHODS &amp; MATERIALS FOR CONTAINMENT &amp; CLEANING UP</b>	Contain spillage, wipe up any liquid and place in container 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> 7.1 <b>PRECAUTIONS FOR SAFE HANDLING</b>	Avoid contact with skin and eyes. Avoid inhalation of vapour. Keep away from sources of ignition - No smoking. For precautions see section 2.2.
<sup>[7b]</sup> 7.2 <b>CONDITIONS FOR SAFE STORAGE,</b>	Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be used immediately before they dry out.

<b>INCLUDING ANY INCOMPATIBILITIES</b>	
<b>7.3 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>				
<b>[8a] COMPONENT</b>	<b>CAS#</b>	<b>PEL/ TWA/ STEL</b>	<b>CONTROL PARAMETERS</b>	<b>BASIS (ACGIH, OSHA ETC)</b>
2-Propanol	67-63-0	STEL	500 ppm 1,250 mg/m3	UK. EH40 WEL - Workplace Exposure Limits
		TWA	400 ppm 999 mg/m3	UK. EH40 WEL - Workplace Exposure Limits

<b>[8b] 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**

<b>[8c] RESPIRATORY PROTECTION</b>	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
<b>[8c] SKIN PROTECTION</b>	Handle with gloves. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Full contact Material: Nitrile rubber Minimum layer thickness: 0.4 mm Break through time: 480 min Material tested: Camatril® (KCL 730 / Aldrich Z677442, Size M) If used under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.
<b>[8c] EYE PROTECTION</b>	Safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
<b>[8c] CLOTHING/BODY PROTECTION</b>	Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
<b>CONTROL OF ENVIRONMENTAL</b>	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

<b>EXPOSURE</b>	
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### SECTION 9: Physical and chemical properties

<sup>[9a]</sup> <b>Appearance (physical state, color, etc.</b>	Liquid, Clear Colorless	<sup>[9j]</sup> <b>Upper/lower flammability or explosive limits:</b>	Lower: 2% UEL: 12.7%
<sup>[9b]</sup> <b>Odor</b>	alcohol-like	<sup>[9k]</sup> <b>Vapor pressure</b>	43.2 hPa (32.4 mmHg) at 20.0 °C (68.0 °F) 58.7 hPa (44.0 mmHg) at 25.0 °C (77.0 °F)
<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>	0.785 g/cm <sup>3</sup> at 25 °C (77 °F)
<sup>[9e]</sup> <b>Melting point/freezing point</b>	-89.5 °C (-129.1 °F) - lit.	<sup>[9n]</sup> <b>Solubility (in H<sub>2</sub>O)</b>	miscible
<sup>[9f]</sup> <b>Initial boiling point and boiling range</b>	82 °C (180 °F) - lit.	<sup>[9o]</sup> <b>Partition coefficient: n-octanol/water</b>	log Pow: 0.05
<sup>[9g]</sup> <b>Flash point</b>	12.0 °C (53.6 °F) - closed cup	<sup>[9p]</sup> <b>Auto-ignition temperature</b>	425.0 °C (797.0 °F)
<sup>[9h]</sup> <b>Evaporation rate</b>	3.0 (BuOAC = 1)	<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		

### SECTION 10: Stability and reactivity

<sup>[10a 10.1]</sup> <b>REACTIVITY</b>	no data available
<sup>[10b 10.2]</sup> <b>CHEMICAL STABILITY</b>	Stable under recommended storage conditions..
<sup>[10c 10.3]</sup> <b>POSSIBILITIES OF HAZARDOUS REACTIONS</b>	none known
<sup>[10d 10.4]</sup> <b>CONDITIONS TO AVOID</b>	Ignition sources, excess heat, incompatible materials
<sup>[10e 10.5]</sup> <b>INCOMPATIBLE MATERIALS</b>	Strong oxidizing agents, strong acids. May damage some forms of plastics with prolonged exposure.
<sup>[10f 10.6]</sup> <b>HAZARDOUS DECOMPOSITION PRODUCTS</b>	Other decomposition products - no data available In the event of fire: see section 5

### SECTION 11: Toxicological information

<sup>[11a]</sup> <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>
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	EYE CONTACT: is not expected if proper personal protective equipment (safety glasses or goggles) is used while working with this product
<sup>[11b]</sup> <b>SYMPTOMS RELATED TO PHYSICAL, CHEMICAL &amp; TOXIC CHARACTERISTICS</b>	<p>INHALATION: May cause drowsiness or dizziness.</p> <p>INGESTION: Skin corrosion/irritation: Skin - rabbit; Result: Mild skin irritation</p> <p>SKIN: Serious eye damage/eye irritation: Eyes - rabbit; Result: Eye irritation - 24 h</p> <p>EYE CONTACT: Respiratory or skin sensitisation: no data available</p>
<sup>[11d]</sup> <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> May cause drowsiness or dizziness.</p> <p><b>Specific target organ toxicity - repeated exposure:</b> no data available</p> <p><b>Aspiration hazard:</b> no data available</p>
<sup>[11D]</sup> <b>NUMERICAL MEASURES OF TOXICITY</b>	<p><b>ACUTE TOXICITY ESTIMATES:</b> none known</p> <p><b>Acute toxicity</b>                      LD50 Oral - rat - 5,045 mg/kg                      Remarks: Behavioral:Altered sleep time (including change in righting reflex). Behavioral:Somnolence (general depressed activity).                      LC50 Inhalation - rat - 8 h - 16000 ppm                      LD50 Dermal - rabbit - 12,800 mg/kg</p> <p><b>SKIN CORROSION/IRRITATION</b>                      Skin - Rabbit                      Result: Mild skin irritation</p> <p><b>Serious eye damage/eye irritation</b>                      Eyes - Rabbit                      Result: Eye irritation - 24 h</p> <p><b>Respiratory or skin sensitization</b>                      No data available</p> <p><b>Germ cell mutagenicity</b>                      No data available</p>
<sup>[11e]</sup> <b>CARCINOGENICITY</b>	<p>This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.</p> <p>IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (2-Propanol)</p>
<b>ADDITIONAL INFORMATION</b>	<p>2-PROPANOL:                      RTECS: NT8050000                      Central nervous system depression, prolonged or repeated exposure can cause:, Nausea, Headache, Vomiting, narcosis, Drowsiness, Overexposure may cause mild, reversible liver effects., Aspiration may lead to:, Lung oedema, Pneumonia                      Kidney - Irregularities - Based on Human Evidence</p>

**SECTION 12: Ecological information**

[12a 12.1] <b>ECOTOXICITY</b>	Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 9,640.00 mg/l - 96 h Toxicity to daphnia and EC50 - Daphnia magna (Water flea) - 5,102.00 mg/l - 24 h other aquatic invertebrates Immobilization EC50 - Daphnia magna (Water flea) - 6,851 mg/l - 24 h Toxicity to algae EC50 - Desmodesmus subspicatus (green algae) - > 2,000.00 mg/l - 72 h EC50 - Algae - > 1,000.00 mg/l - 24 h
[12b 12.2] <b>PERSISTENCE AND DEGRADABILITY</b>	No data available
[12c 12.3] <b>BIOACCUMULATIVE POTENTIAL</b>	No bioaccumulation is to be expected (log Pow <= 4).
[12d 12.4] <b>MOBILITY IN SOIL</b>	No data available
12.5 <b>RESULTS OF PBT AND vPvB ASSESSMENT</b>	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.
[12e 12.6] <b>OTHER ADVERSE EFFECTS (OZONE LAYER ETC.)</b>	No data available

**SECTION 13: Disposal considerations**

[13] Contact a licensed professional waste disposal service.  
Contaminated Packaging Disposal: Contact a licensed professional waste disposal service.

**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
ADR/RID:	not applicable	not applicable	not applicable	not applicable	not applicable
IMDG:	not applicable	not applicable	not applicable	not applicable	not applicable
IATA:	not applicable	not applicable	not applicable	not applicable	not applicable
<b>US DOT</b>	not applicable	not applicable	not applicable	not applicable	not applicable
<b>14.6 Special precautions for user</b>	Non Hazardous and Not restricted for transport per IATA SP A46, ADR/RID Special Provision 216, DOT SP 47				

[14d] <b>ENVIRONMENTAL HAZARDS</b>	Marine Pollutant: no
[14f] <b>BULK TRANSPORT</b>	<b>IMDG: NOT APPLICABLE</b>

<b>(MARPOL 73/78/IBC CODE)</b>	
<b>[149] SPECIAL PRECAUTIONS</b>	none known

### SECTION 15: Regulatory information

#### EU

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>	2- Propanol, CAS# 67-63-0 Revision Date 1987-01-01
<b>Sara 311/312 Hazards</b>	Fire Hazard, Acute Health Hazard, Chronic Health Hazard
<b>Massachusetts Right To Know Components</b>	2- Propanol, CAS# 67-63-0 Revision Date 1987-01-01
<b>Pennsylvania Right To Know Components</b>	2- Propanol, CAS# 67-63-0 Revision Date 1987-01-01
<b>New Jersey Right To Know Components</b>	2- Propanol, CAS# 67-63-0 Revision Date 1987-01-01
<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: 10/1/2018 version 3.0 Updated Emergency Contact  
07/23/15 version 1.0 original issue  
08/27/15 Ver 2.0 corrections

#### Full text of H-Statements referred to under sections 2 and 3.

Eye Irrit. Eye irritation  
Flam. Liq. Flammable liquids  
H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
STOT SE Specific target organ toxicity - single exposure

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 WARRANT OF ANY KIND IS MADE WITH RESPECT THERETO. SINCE THE COMPANY SHALL



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