


SAFETY DATA SHEET

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

 <p style="text-align: center;">[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</p>	<p style="text-align: center;">Emergency Telephone Number [1E]</p> <p style="text-align: center;">Chemtrec CCN696855 1-800-424-9300 (US/Canada) +1-703-527-3887 (International)</p> <p style="text-align: center;">Revision Date: 08/25/2015</p>
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[1a.b] TRADE NAME(s)	Aculon Multi-Surface Oleophobic Wipes	[1c] CHEMICAL FAMILY/ APPLICATION/ RESTRICTIONS	Chemical Mixture Specialty Coating
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SECTION 2: Hazards identification

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

Aspiration hazard, Category 1
 Specific target organ systemic toxicity - single exposure, Category 3, Central nervous system
 Acute aquatic toxicity, Category 2
 Chronic aquatic toxicity, Category 2
 Flammable liquids, Category 2
 Skin irritation, Category 2

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

Signal word: Danger Pictogram(s):



Hazard statement(s):

H225: Highly flammable liquid and vapor.
 H304: May be fatal if swallowed and enters airways.
 H315: Causes skin irritation.
 H336: May cause drowsiness or dizziness.
 H411: Toxic to aquatic life with long lasting effects.

Precautionary statement(s)

Prevention:

P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 P243: Take precautionary measures against static discharge.
 P271: Use only outdoors or in a well-ventilated area.
 P273: Avoid release to the environment.

P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
 P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
 P331: Do NOT induce vomiting.
 P370 + P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
 P391: Collect spillage.
Storage:
 P403 + P233: Store in a well-ventilated place. Keep container tightly closed.
Disposal:
 P501: Dispose of contents/ container to an approved waste disposal plant.

[2C] **HAZARDS NOT OTHERWISE CLASSIFIED:** none known

[2D] **INGREDIENTS OF UNKNOWN ACUTE TOXICITY >= 1%:**

SECTION 3: Composition/information on ingredients

[3a,b,d] CHEMICAL NAME/SYNONYMS	[3C] CAS NUMBER	EINECS NO.	CONC.*
Proprietary Polymer	NA	none	< 1 %
Proprietary Stabilizer	NA	none	< 1 %
2-Propanol (Isopropanol)	67-63-0	200-661-7	> 5 %
Methyl Nonafluoroisobutyl Ether	163702-08-7	422-270-2	> 45 %
Isoalkanes 7-8	70024-92-9	274-273-1	> 45 %

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

SECTION 4: First aid measures

[4a] INHALATION	Consult a physician after significant exposure. If unconscious place in recovery position and seek medical advice.
[4a] SKIN CONTACT	If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.
[4a] EYE CONTACT	Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
[4a] INGESTION	Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.
[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] SUITABLE/ UNSUITABLE	Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical.
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EXTINGUISHING MEDIA	UNSUITABLE: High volume water jet.
^[5b] SPECIFIC HAZARDS IE HAZARDOUS COMBUSTION PRODUCTS	Do not allow run-off from fire fighting to enter drains or water courses.
^[5c] PRECAUTIONS / SPECIAL PROTECTIVE EQUIPMENT	Wear self contained breathing apparatus for fire fighting if necessary.

SECTION 6: Accidental release measures

^[6a] PERSON PRECAUTIONS, PPE, EMERGENCY PROCEDURES	Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
^[6a] METHODS & MATERIALS OF CONTAINMENT & CLEANING	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

SECTION 7: Handling and storage

^[7a] PRECAUTIONS FOR SAFE HANDLING	Avoid formation of aerosol. Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.
^[7b] CONDITIONS FOR SAFE STORAGE	No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

SECTION 8: Exposure controls/personal protection

^[8a] COMPONENT	PEL/ TWA/ STEL	CONTROL PARAMETERS	BASIS (ACGIH, OSHA ETC)	NOTES
Isoalkanes 7-8	TWA	300 ppm	ACGIH TLV	
Methyl nonafluoroisobutyl ether	TWA	750 ppm	ACGIH TLV	
2-Propanol	STEL	500 ppm	UK. EH40 WEL -	

		1,250 mg/m3	Workplace Exposure Limits
	TWA	400 ppm 999 mg/m3	UK. EH40 WEL - Workplace Exposure Limits

[8b] VENTILATION / ENGINEERING CONTROLS	Adequate ventilation to control airborne concentrations below the exposure guidelines/limits. Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the workplace when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.
[8c] RESPIRATORY PROTECTION	Wear a supplied-air NIOSH approved respirator unless ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure. Wear a NIOSH approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur, such as: Air-Purifying Respirator for Organic Vapors. Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.
[8c] SKIN PROTECTION	The suitability for a specific workplace should be discussed with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
[8c] EYE PROTECTION	Eye wash bottle with pure water. Tightly fitting safety goggles.
[8c] CLOTHING	Wear appropriate protective clothing to prevent skin exposure.

SECTION 9: Physical and chemical properties

[9a] Appearance (physical state, color, etc.)	Solid wipe containing Treatment solution	[9i] Upper/lower flammability or explosive limits:	no data available
[9b] Odor	mild	[9k] Vapor pressure	No data available
[9c] Odor threshold	no data available	[9l] Vapor density	2(Air = 1.0)
[9d] pH	not applicable	[9m] Relative Density	1.1 g/ml
[9e] Melting point/freezing point	no data available	[9n] Solubility (in H₂O)	Negligible
[9f] Initial boiling point and boiling range	no data available	[9o] Partition coefficient: n-octanol/water	No data available
[9g] Flash point	-11 °C (12 °F) Method: Tag closed cup	[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

SECTION 10: Stability and reactivity

[10a] REACTIVITY	no data available
[10b] CHEMICAL STABILITY	This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
[10c] POSSIBILITIES OF HAZARDOUS REACTIONS	none known
[10d] CONDITIONS TO AVOID	Ignition sources, excess heat, incompatible materials
[10e] INCOMPATIBLE MATERIALS	May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
[10f] HAZARDOUS DECOMPOSITION PRODUCTS	<p>Other decomposition products -</p> <p>Hydrogen Fluoride At Elevated Temperatures - extreme conditions of heat</p> <p>Perfluoroisobutylene (PFIB) At Elevated Temperatures - extreme conditions of heat</p> <p>Toxic Vapor, Gas, Particulate At Elevated Temperatures - extreme conditions of heat</p> <p>Refer to section 5.2 for hazardous decomposition products during combustion. If the product is exposed to extreme condition of heat from misuse or equipment failure, toxic decomposition products that include hydrogen fluoride and perfluoroisobutylene can occur.</p>

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> <p>When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.</p>
[11b] SYMPTOMS RELATED TO PHYSICAL, CHEMICAL & TOXIC CHARACTERISTICS	<p>INHALATION: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Concentrations substantially above the TLV value may cause narcotic effects. May be fatal if swallowed and enters airways. Substances known to cause human aspiration toxicity hazards or to be regarded as if they cause human aspiration toxicity hazard. Vapors from heated material may cause irritation of the respiratory system. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.</p> <p>INGESTION: May be fatal if swallowed and enters airways. Substances known to cause human aspiration toxicity hazards or to be regarded as if they cause human aspiration toxicity hazard.</p> <p>SKIN: irritating, Solvents may degrease the skin.</p> <p>EYE CONTACT: Serious eye damage/eye irritation: Eyes - rabbit; Result: Eye irritation - 24 h .</p>

<p>^[11D] DELAYED / IMMEDIATE EFFECTS, CHRONIC EFFECTS FROM SHORT/LONG TERM EXPOSURE</p>	<p>Reproductive toxicity: no data available Specific target organ toxicity - single exposure: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Concentrations substantially above the TLV value may cause narcotic effects. Solvents may degrease the skin. Specific target organ toxicity - repeated exposure: Isoalkanes 7-8 Species: rat, Application Route: Inhalation Dose: 0, 385, 1180 ppm, Exposure time: 12 wk, Number of exposures: 6 hr/d, 5 d/wk NOEL: > 1180 ppm, Target Organs: Kidney</p> <p>Aspiration hazard: May be fatal if swallowed and enters airways. Substances known to cause human aspiration toxicity hazards or to be regarded as if they cause human aspiration toxicity hazard.</p> <p>Did not cause sensitization on laboratory animals. Information given is based on data obtained from similar substances.</p> <p>Repeated dose toxicity: no data available</p>
<p>^[11D] NUMERICAL MEASURES OF TOXICITY</p>	<p>ACUTE TOXICITY ESTIMATES: Isoalkanes 7-8 Acute toxicity LD50: > 5.000 mg/kg, Species: rat Method: OECD Test Guideline 401 Information given is based on data obtained from similar substances.</p> <p>LC50 Inhalation - rat - 4 h - LC50: > 33.520 mg/l Test atmosphere: dust/mist Method: OECD Test Guideline 403 An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration. Information given is based on data obtained from similar substances.</p> <p>LD50 Dermal - rat - LD50: > 2.000 mg/kg Species: rat Method: OECD Test Guideline 402 Information given is based on data obtained from similar substances.</p> <p>Methyl nonafluoroisobutyl ether Acute toxicity LC50 Inhalation - Rat - 4h - LC50 > 1,000 mg/l LD50 Ingestion - Rat - LD50 > 5,000 mg/kg</p> <p>2 Propanol: Acute toxicity 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>SKIN CORROSION/IRRITATION Skin - Rabbit Result: Mild skin irritation</p> <p>Serious eye damage/eye irritation Eyes - Rabbit Result: Eye irritation - 24 h</p>

	<p>Respiratory or skin sensitization No data available</p> <p>Germ cell mutagenicity No data available</p>
^[11e] CARCINOGENICITY	<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. IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (2-Propanol)</p>
ADDITIONAL INFORMATION	<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] ECOTOXICITY	<p>Isoalkanes 7-8 Toxicity to fish LC50 - LC50: 5.4 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) Information given is based on data obtained from similar substances. Toxicity to daphnia and other aquatic invertebrates: EL50: 143 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) static test Method: OECD Test Guideline 202 Toxicity to algae EC50 - EL50: 29.0 mg/l Exposure time: 72 h Species: Raphidocellus subcapitata (algae) Growth inhibition Method: OECD Test Guideline 201</p> <p>2 Propanol: 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</p> <p>An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life with long lasting effects.</p>
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[12b] PERSISTENCE AND DEGRADABILITY	Result: Not readily biodegradable. 22 % The Isoalkanes material is not expected to be readily biodegradable.
[12c] BIOACCUMULATIVE POTENTIAL	No data available
[12d] MOBILITY IN SOIL	No data available
[12e] OTHER ADVERSE EFFECTS (OZONE LAYER ETC.)	The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.

SECTION 13: Disposal considerations

[13] Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.

Contaminated Packaging Disposal: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

SECTION 14: Transport information

[14a] UN/NA	[14b] UN/NA PROPER SHIPPING NAME	[14ca] TRANSPORT HAZARD CLASS	[14d] PACKING GROUP
Not applicable	Not applicable	Not applicable	Not applicable

US DOT/IATA	Non Hazardous and Not restricted for transport per IATA SP A46, ARD/RID Special Provision 216, DOT SP 47
[14d] ENVIRONMENTAL HAZARDS	Marine Pollutant: yes
[14f] BULK TRANSPORT (MARPOL 73/78/IBC CODE)	IMDG: not applicable
[14g] SPECIAL PRECAUTIONS	none known

SECTION 15: Regulatory information

US

TSCA	On the inventory, or in compliance with the 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	2- Propanol, CAS# 67-63-0 Revision Date 1987-01-01

Sara 311/312 Hazards	Fire Hazard, Acute Health Hazard, Chronic Health Hazard
Massachusetts Right To Know Components	2- Propanol, CAS# 67-63-0 Revision Date 1987-01-01
Pennsylvania Right To Know Components	2- Propanol, CAS# 67-63-0 Revision Date 1987-01-01
New Jersey Right To Know Components	2- Propanol, CAS# 67-63-0 Revision Date 1987-01-01
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: 08/25/2015 version 1

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

Aspiration hazard, Category 1

Specific target organ systemic toxicity - single exposure, Category 3, Central nervous system

Acute aquatic toxicity, Category 2

Chronic aquatic toxicity, Category 2

Flammable liquids, Category 2

Skin irritation, Category 2

Hazard statement(s):

H225: Highly flammable liquid and vapor.

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H336: May cause drowsiness or dizziness.

H411: Toxic to aquatic life with long lasting effects.

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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