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SAFETY DATA SHEET

SECTION 1. PRODUCT AND COMPANY INFORMATION



10110 Sorrento Valley Road San Diego, CA 92121 phone 858-350-9474 fax 858-350-9422

Email: <u>support@aculon.com</u> <u>www.aculon.com</u>

Emergency Telephone Number

Chemtel Chemical MIS8833919 1-800-255-3924 (US/Canada) 1-813248-0585 (International)

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TRADE NAME(s)

Aculon 73DE offset

CHEMICAL FAMILY/
APPLICATION/ RESTRICTIONS

Chemical Mixture Vapor Degreaser

SECTION 2. HAZARDOUS IDENTIFICATION

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Serious Eye Damage/Irritation: Category 2A.

Specific Target Organ Toxicity (single exposure): Category 3.

LABELING ELEMENTS, Hazard, and Precautionary Statements



Signal word: Warning Pictogram(s):

Hazard statement(s):

Causes serious eye irritation.

Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

Wear eye/face protection.

Response:

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.

Disposal:

Dispose of contents/container in accordance with applicable local/regional/national/international regulations

HAZARDS NOT OTHERWISE CLASSIFIED: In use, may form flammable/explosive vapour-air mixture. May cause

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drowsiness or dizziness.

INGREDIENTS OF UNKNOWN ACUTE TOXICITY >/= 1%:

SECTION 3.. COMPOSITION / INFORMATION ON INGREDIENT(S)

CHEMICAL NAME/SYNONYMS	CAS NUMBER	EINECS NO.	CONC.*
trans-1,2-Dichloroethylene	156-60-5	205-860-2	60 - 90 %
Pentane, 1,1,1,2,2,3,4,5,5,5-decafluoro-3-methoxy-4- (trifluoromethyl)-	132182-92-4		10 - 40%

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

SECTION 4. FIRST AID MEASURES

INHALATION	Remove person to fresh air. If you feel unwell, get medical attention.
SKIN CONTACT	Wash with soap and water. If you feel unwell, get medical attention.
EYE CONTACT	Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing.
	Get medical attention
INGESTION	Rinse mouth. If you feel unwell, get medical attention
MOST	Central nervous system depression (headache, dizziness, drowsiness, incoordination, nausea, slurred
IMPORTANT	speech, giddiness, and unconsciousness).
SYMPTOMS &	
EFFECTS	
INDICATION OF	Treat symptomatically.
ANY IMMEDIATE	
MEDICAL	
ATTENTION AND	
SPECIAL	
TREATMENT	
NEEDED	

SECTION 5. FIREFIGHTING MEASURES

SUITABLE/ UNSUITABLE EXTINGUISHING MEDIA	Use a fire fighting agent suitable for the surrounding fire.
SPECIFIC HAZARDS	Material displays no closed-cup flash point but may form flammable/explosive vapor air mixture.
IE HAZARDOUS COMBUSTION	Hazardous Combustion Products Carbon monoxide (CO), Carbon dioxide (CO2),, Hydrogen
	chloride, hydrogen Fluoride gas.
PRECAUTIONS /	No special protective actions for fire-fighters are anticipated.
SPECIAL	
PROTECTIVE	
EQUIPMENT	

SECTION 6. ACCIDENTAL RELEASE MEASURES

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PERSON PRECAUTIONS, PPE. EMERGENCY **PROCEDURES**

Keep away from sparks, flames, and extreme heat. Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

METHODS & MATERIALS OF CONTAINMENT & CLEANING

Eliminate all potential ignition sources when cleaning up spill. Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

SECTION 7. HANDLING AND STORAGE

SAFE HANDLING

PRECAUTIONS FOR Contents may be under pressure, open carefully. For industrial/occupational use only. Not for consumer sale or use. Store work clothes separately from other clothing, food and tobacco products. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) No smoking: Smoking while using this product can result in contamination of the tobacco and/or smoke and lead to the formation of hazardous decomposition products. Keep away from sparks, flames, and extreme heat.

CONDITIONS FOR SAFE STORAGE

Store in a well-ventilated place. Keep container tightly closed. Store away from heat. Store at temperatures not exceeding 38°C/100°F Store away from strong bases. Store away from oxidizing agents.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

COMPONENT	PEL/ TWA/ STEL	CONTROL PARAMETERS	BASIS (ACGIH, OSHA ETC)	NOTES
trans-1,2-Dichloroeth ylene	TWA	200 ppm	ACGIH Threshold Limit Values (TLV)	
trans-1,2-Dichloroeth ylene	TWA	800 mg/m3		
Pentane, 1,1,1,2,2,3,4,5,5,5-deca fluoro-3-methoxy-4- (trifluoromethyl)-	TWA	100 ppm		

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VENTILATION / ENGINEERING CONTROLS	Provide ventilation adequate to maintain vapor concentration below lower explosive concentration. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.
RESPIRATORY PROTECTION	An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure: Half facepiece or full facepiece air-purifying respirator suitable for organic vapors Organic vapor respirators may have short service life. For questions about suitability for a specific application, consult with your respirator manufacturer.
SKIN PROTECTION	Chemical protective gloves are not required under normal use conditions. However, when the product is subjected to extreme heat, HF may be formed. For those cases, neoprene gloves and apron are recommended.
EYE PROTECTION	Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended: Indirect Vented Goggles
CLOTHING	Wear appropriate protective clothing to prevent skin exposure.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color,	Liquid, Clear Colorless	Upper/lower flammability or	Lower: 57.5% volume
etc.	Liquia, Gibai Golorioso		UEL: 15% [Details:
		expresive innite:	Tested according to
			ASTM Method
			E681-15 (per annex
			A1, closed vessel test
			method for
			difficult-to-ignite
			materials)] - lit
Odor	Slight odor	Vapor pressure	35,063.7 Pa [@ 20.0
			°C] - lit
Odor threshold	no data available	Vapor density	5.2
рН	Not applicable	Relative Density	1.28
Melting point/freezing point	Not applicable	Solubility (in H₂O)	< 10 ppm - lit
Initial boiling point and boiling range	47.6 °C - lit.	Partition coefficient:	No data available
		n-octanol/water	
Flash point	No flash point	Auto-ignition temperature	427 °C - lit
	Details:Tested according		
	to ASTM Method		
	D3278-96 e-1] - lit		
Evaporation rate	No data available	Decomposition temperature	no data available
Flammability (solid, gas)	no data available	Viscosity	0.4 cp - lit
VOC less H2O & exempt solvents	1,090 g/l [40 CFR	Percent Volatile	100%
_	51.100(s)]		
	· /-		

SECTION 10. STABILITY AND REACTIVITY

REACTIVITY	This material may be reactive with certain agents under certain conditions - see the remaining
	headings in this section.
CHEMICAL STABILITY	Stable.

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POSSIBILITIES OF	Hazardous polymerization will not occur.
HAZARDOUS	
REACTIONS	
CONDITIONS TO	Heat Sparks and/or flames
AVOID	
INCOMPATIBLE	Strong bases Strong oxidizing agents
MATERIALS	
HAZARDOUS	Carbon Monoxide, Carbon dioxide, Hydrogen Chloride, Hydrogen Fluoride,
DECOMPOSITION	Perfluoroisobutylene, Toxic Vapor, Gas, Particulate: At elevated temperatures - extreme
PRODUCTS	conditions of heat
	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.

SECTION 11. TOXICOLOGY INFORMATION

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

be relevant to the ma	aterial as a whole.
LIKELY ROUTES OF	
EXPOSURE	INHALATION:Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal
	discharge, headache, hoarseness, and nose and throat pain.
	May cause additional health effects (see below).
	INGESTION:Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach
	upset, nausea, vomiting and diarrhea. May cause additional health effects (see below)
	SKIN:Contact with the skin during product use is not expected to result in significant irritation.
	EYE CONTACT: Severe Eye Irritation: Signs/symptoms may include significant redness, swelling,
	pain, tearing, tearing, and blurred or hazy vision.
OVMOTOMO	INITIAL ATION: Description: Tract Installant Circulations Circulations and the control of the co
SYMPTOMS	INHALATION:Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal
	discharge, headache, hoarseness, and nose and throat pain.
	May cause additional health effects (see below).
	INGESTION:Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach
CHARACTERISTICS	upset, nausea, vomiting and diarrhea. May cause additional health effects (see below)
	SKIN:Contact with the skin during product use is not expected to result in significant irritation.
	EYE CONTACT: Severe Eye Irritation: Signs/symptoms may include significant redness, swelling,
	pain, tearing, cloudy appearance of the cornea, and impaired vision.
DELAYED /	Reproductive toxicity: no data available
	Specific target organ toxicity - single exposure: Central Nervous System (CNS) Depression:
EFFECTS,	Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed
	reaction time, slurred speech, giddiness, and unconsciousness.
FROM	Specific target organ toxicity - repeated exposure: no data available
	Aspiration hazard: For the component/components, either no data are currently available or the
	data are not sufficient for classification.
	ACUTE TOXICITY ESTIMATES: none known
MEASURES OF	

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TOXICITY	Acute toxicity					
	name	Route	Species	Value		
	Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg		
	Overall product	Inhalation - Vapor	rat	LC50> 2	2.1 mg/l - lit	
	1,2-Trans-dichloroethylene	Dermal	Rabbit	LD50 > 5	5,000 mg/kg	
	1,2-Trans-dichloroethylene	Inhalation Vapor (4 hours)	Rat	Rat LC50	0 95.6 mg/l	
	1,2-Trans-dichloroethylene	Ingestion	Rat	LD50 7,9	002 mg/kg	
	Pentane, 1,1,1,2,2,3,4,5,5,5-decafluoro- 3-methoxy-4- (trifluoromethyl)-	Dermal	Rat	LD50 > 2,000 mg/kg - lit		
	Pentane, 1,1,1,2,2,3,4,5,5,5-decafluo ro-3-methoxy-4- (trifluoromethyl)-	Inhalation Vapor (4 hours)	Rat	LC50 > 4	l30 mg/l - lit	
	Pentane, 1,1,1,2,2,3,4,5,5,5-decafluo ro-3-methoxy-4- (trifluoromethyl)-	Ingestion	Rat	LD50 > 2,000 mg/kg - lit		
	Skin Corrosion/Irritation		•			
	Name	Species			Value	
	1,2-Trans-dichloroethylene	Rabbit	Rabbit		Minimal irritation	
	Pentane, 1,1,1,2,2,3,4,5,5,5-decafluoro 3-methoxy-4- (trifluoromethyl)			No significant irritation		
	Serious Eye Damage/Irritation	ious Eye Damage/Irritation				
	Name	Species	cies		Value	
	1,2-Trans-dichloroethylene	Rabbit	Rabbit		Moderate irritation	
	Pentane, 1,1,1,2,2,3,4,5,5,5-decafluoro 3-methoxy-4- (trifluoromethyl)				No significant irritation	

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Skin Sensitization

Name	Species	Value
1,2-Trans-dichloroethylene	Guinea pig	Not classified
Pentane, 1,1,1,2,2,3,4,5,5,5-decafluoro- 3-methoxy-4- (trifluoromethyl)-	Mouse	Not classified

Respiratory Sensitization:

For the component/components, either no data are currently available or the data are not sufficient for classification.

Germ Cell Mutagenicity:

For the components: In Vitro testing shows the components are Not mutagenic - lit

Reproductive Toxicity: Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
1,2-Trans- dichloroethylene	Inhalation	Not classified for development	Rat	NOAEL 24 mg/l	during organogenesis
Pentane, 1,1,1,2,2,3,4,5,5,5-de cafluoro-3-methoxy-4- (trifluoromethyl)	Ingestion	Not classified for development	Rat	NOAEL 28 mg/l	Premating into lactation
Pentane, 1,1,1,2,2,3,4,5,5,5-de cafluoro-3-methoxy-4- (trifluoromethyl)	Ingestion	Not classified for female reproduction	Rat	NOAEL 28 mg/l	28 days
Pentane, 1,1,1,2,2,3,4,5,5,5-decaf luoro-3-methoxy-4- (trifluoromethyl)	Ingestion	Not classified for male reproduction	Rat	NOAEL 28 mg/l	Premating into lactation

Target Organ(s) Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
1,2-Trans- dichloroethylene	Ingestion	central nervous system depression	Some positive data exist, but the data are not sufficient for classification	human	NOAEL Not Available	Occupations exposure
1,2-Trans- dichloroethylene	Inhalation	Respiratory irritation	Some positive data exist, but		NOAEL Not Available	

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			the data are not sufficient for classification			
1,2-Trans- dichloroethylene	Ingestion	central nervous system depression	May cause drowsiness or dizziness	rat	LOAEL 4,500 mg/kg	Not applicall
Specific Target	organ Toxici	ty - repeated ex	kposure			
Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
1,2-Trans- dichloroethylene	Inhalation	endocrine system liver kidney and/or bladder respiratory system	Not classified	Rat	NOAEL 16 mg/l	90 days
1,2-Trans- dichloroethylene	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 2,000 mg/kg/day	14 weeks
1,2-Trans- dichloroethylene	Ingestion	blood liver	Not classified	Rat	NOAEL 125 mg/kg/day	14 weeks
1,2-Trans- dichloroethylene	Ingestion	heart immune system respiratory system	Not classified	Rat	NOAEL 2,000 mg/kg/day	14 weeks
Pentane, 1,1,1,2,2,3,4,5,5,5 -decafluoro-3-met hoxy-4- (trifluoromethyl)	Inhalation	Endocrine system liver hea rt hematopoietic system Immune system nervous system kidney and /or bladder	Not classified	Rat	NOAEL 281 mg/l	28 days
Pentane, 1,1,1,2,2,3,4,5,5,5 -decafluoro-3-met hoxy-4- (trifluoromethyl)	Inhalation	Respiratory system	Not classified	Rat	NOAEL 143 mg/l	5 days
Pentane, 1,1,1,2,2,3,4,5,5,5 -decafluoro-3-met hoxy-4- (trifluoromethyl)	Ingestion	Liver Kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 150 m/gkg/day	28 days
Pentane, 1,1,1,2,2,3,4,5,5,5 -decafluoro-3-met hoxy-4- (trifluoromethyl)	Ingestion	Endocrine system bone, teeth, nails, and/or hair heart hematopoietic system Immune system nervous system	Not classified	Rat	NOAEL 1000 m/gkg/day	28 days

Aspiration Hazard:

For the component/components, either no data are currently available or the data are not sufficient for classification.

CARCINOGENICITY For the component/components, either no data are currently available or the data are not sufficient for classification.

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SECTION 12. ECOLOGICAL INFORMATION

Acute aquatic hazard: GHS Acute 3: Harmful to aquatic life.

Chronic aquatic hazard:

GHS Chronic 3: Harmful to aquatic life with long lasting effects.

ECOTOXICITY

Material	Organism	Туре	Exposure	Test Endpoint	Test result
1,2-Trans- dichloroethylene	Bluegill	Estimated	96 hours	LC50	135 mg/l
1,2-Trans- dichloroethylene	Green Algae	Experimental	48 hours	EC50	36.36 mg/l
1,2-Trans- dichloroethylene	Water flea	Experimental	48 hours	LC50	220 mg/l
1,2-Trans- dichloroethylene	Anaerobic sludge	Experimental	96 hours	IC50	48 mg/l
Pentane, 1,1,1,2,2,3,4,5,5,5-decafl uoro-3-methoxy-4- (trifluoromethyl)	Activated sludge	Experimental	3 hours	EC50	>1000 mg/l
Pentane, 1,1,1,2,2,3,4,5,5,5-decafl uoro-3-methoxy-4- (trifluoromethyl)	Green algae	Experimental	72 hours	No tox obs at Imt of water sol	>100 mg/l
Pentane, 1,1,1,2,2,3,4,5,5,5-decafl uoro-3-methoxy-4- (trifluoromethyl)	Medaka	Experimental	96 hours	No tox obs at Imt of water sol	>100 mg/l
Pentane, 1,1,1,2,2,3,4,5,5,5-decafl uoro-3-methoxy-4- (trifluoromethyl)	Water flea	Experimental	48 hours	No tox obs at Imt of water sol	>100 mg/l

PERSISTENCE AND DEGRADABILITY

Material	Test Type	Duration	Study Type	Test result	Protocol
1,2-Trans- dichloroethylene	Experimental Photolysis		Photolytic half-life (in air)	13 days (t 1/2)	
1,2-Trans- dichloroethylene	Experimental Biodegradation	28 days	Percent degraded	9% BOD/ThBOD	OECD 301D - Closed bottle test
Pentane, 1,1,1,2,2,3,4,5,5,5-decafl uoro-3-methoxy-4-	Experimental Photolysis		Photolytic half-life (in air)	2.63 years (t 1/2)	Non-standard method

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(trifluoromethyl)					
Pentane, 1,1,1,2,2,3,4,5,5,5-decafl uoro-3-methoxy-4- (trifluoromethyl)	Experimental Biodegradation	28 days	Biological Oxygen Demand	0% BOD/ThBOD	OECD 301D - Closed bottle test
		BIOACCUMULA	TIVE POTENTIAL		
	T	1	T	T	T
Material	Test Type	Duration	Study Type	Test result	Protocol
1,2-Trans- dichloroethylene	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	2.06	
	•	•	•	•	
MOBILITY IN SOIL No data available					
	OTHE	R ADVERSE EFFE	CTS (OZONE LAYE	R ETC.)	
No data available					

SECTION 13. DISPOSAL CONSIDERATIONS

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging: Dispose of contents/ container in accordance with the local/regional/national/international regulations. Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Combustion products will include halogen acid (HCl/HF/HBr). Facility must be capable of handling halogenated materials. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

Contaminated Packaging Disposal:

SECTION 14. TRANSPORTATION INFORMATION						
UN/NA PROPER TRANSPORT HAZARD PACKING GROUP SHIPPING NAME CLASS						
Not regulated per U.S. DOT, IATA, or IMO.						
US DOT/IATA	US DOT/IATA Not regulated per U.S. DOT, IATA, or IMO.					
ENVIRONMENTAL HAZARDS	VIRONMENTAL HAZARDS Marine Pollutant: no					
DILL & TDANCDODT	Not regulated nor U.S. DOT IATA or IMO					

SECTION 15. REGULATORY INFORMATION					
SPECIAL PRECAUTIONS	none known				
(MARPOL 73/78/IBC CODE)					
BULK TRANSPORT	Not regulated per U.S. DOT, IATA, or IMO.				

US

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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	No chemicals in this material are subject to the reporting requirements of	
HAZARDOUS SUBSTANCES	SARA Title III, Section 302.	
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: see the top of each page of this SDS

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 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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