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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards

SDS Revision: 3.2

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		1.	PRODUCT	COMF	PANY	IDEN	ITIF	ICA	TIOI	V				
1.1	Product Name:	DUSTAL	L™ DUST	REMOVE	ER SP	RAY	. (P/	N C	CS-2	2007	'). 7	7.0 (Oz. (1	98 a)
.2	Chemical Name:	Difluoroethar									,,			- J/
.3	Synonyms:	DustALL™												
.4	Trade Names:	DustALL™ Dust Remover Spray												
.5	Product Uses & Restrictions:	Dust Removing Spray												
.6	Distributor's Name:	CAIG Laboratories, Inc.												
.7	Distributor's Address:	12200 Thatcher Court, Poway, CA 92064-6876 USA												
.8	Emergency Phone:	CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-9300 (CCN205206)												
.9	Business Phone / Fax:	+1 (800) 224	-4123											
			2. HA	ZARDS II	DENT	FICA	TIC	N						
2.1	Hazard Identification:	This produc	t is classified a						s DAN	IGERO	DUS	GOO	ODS	
		according to DANGER! EXPLODE IF	the classification EXTREMELY FI	criteria of NO	HSC: 108	8 (2004	l) and	ADG	Code (Austra	alia).			
2.2	Label Elements:	Hazard State	ements (H): H220	- Extremely	flammab	e gas.	H280	– Cor	ntains	gas ur	nder	press	ure;	_
		may explode		. D010 - 1/a	ower f	nn k+	h-4	f		ادم	on fi	n mn	and	
			<u>y Statements</u> (P) sources. No sm											(43)
			sunlight. Do not											
		skin irritation	occurs: get me	dical advice/a	ttention.	P377 -	- Leal	king g	as fire	: Do n	ot e	xtingu	uish,	X
			can be stopped											
			 Protect from tainer to a license 							2501	– D	spose	e of	
		CONTENIS/CON	tainer to a licerise	eu irealineni, s	siorage o	uispos	ai iac	ility (1	3DF).					\ /
2.3	Other Warnings:	KEED OUT (DE DE 4011 OF 0	IIII DDEN										
2.3	Other Warnings.	KEEP OUT (OF REACH OF C	HILDREN										
		3. C	OMPOSITION	ON & ING	REDI	ENT	INF	ORI	1ATI	ON				
										SURE LI	MITS		(mg/m³)	1
						ACG ppn			NOHSC ppm			OSI ppi		-
						ppi	"	ES-	ES-	ES-		PPI	"	-
HEMI	CAL NAME(S)	CAS No.	RTECS No. K14100000	EINECS No. 200-866-1	%		STEL	TWA	STEL	PEAK				OTHER
4 D			K14100000		60-100	1000	NA	1000	NF	NF	NA	N/	A NA	
ע-ו	IFLUOROETHANE (R-152A)	75-37-6 Flam Gas 1:	Lin Gas-H220 H2	80										
ו-ט	IFLUOROETHANE (R-152A)		Liq. Gas;H220, H2	80										
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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision Date: 4/18/2023 4. FIRST AID MEASURES - cont'd 44 Acute Health Effects: Moderate irritation to eyes and skin near affected areas. Additionally, high concentrations of vapors can cause drowsiness, dizziness, headaches and nausea. Frostbite like effect to skin 4.5 Chronic Health Effects: Overexposure may trigger asthma-like symptoms in some sensitive individuals. May also induce skin sensitization and respiratory hypersensitivity. Possible allergic dermatitis. 4.6 Target Organs: Eyes, Skin, Respiratory System. Medical Conditions 4.7 Pre-existing dermatitis, other skin conditions, and disorders of the HEALTH 0 Aggravated by Exposure: target organs (eyes, skin, and respiratory system). **FLAMMABILITY** 4 Note to Physicians: Because of possible disturbances of cardiac PHYSICAL HAZARDS 3 rhythm, catecholamine drugs, such as epinephrine, should be used PROTECTIVE EQUIPMENT В with special caution only in situations of emergency life support. **EYES** SKIN 5. FIREFIGHTING MEASURES 5.1 Fire & Explosion Hazards: Level 3 Aerosol (NFPA 30B). Aerosols may burst at temperatures above 120 °F. Cool uninvolved containers to prevent possible bursting. Aerosols may be projectile hazards when bursting. If aerosols are bursting, stay clear until bursting is complete. This product is not flammable. However, if involved in a fire, this product may decompose at high temperatures to form toxic gases (e.g., CO, HF - hydrogen fluoride). Extinguishing Methods: 52 Water, Foam, CO₂, Dry Chemical. Use water spray to cool unopened containers. 5.3 Firefighting Procedures Fight fires as for surrounding materials. As in any fire, wear MSHA/NIOSH approved self-contained breathing apparatus (pressure-demand) and full protective gear. Keep containers cool until well after the fire is out. Use water spray to cool fire-exposed surfaces and to protect personal. Fight fire upwind. Avoid spraying water directly into storage containers because of danger of boil-over. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway. Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies. 6. ACCIDENTAL RELEASE MEASURES 6.1 Spills: Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment. Plastic or rubber gloves, respirator, eye protection and apron may be required for clean-up of large spills. Small Spills: Wear appropriate protective equipment including gloves and protective eyewear. Use a non-combustible material such as vermiculite or sand to soak up the product any liquid and place into a container for later disposal. Do not use water or a material such as "speedy dry" to soak up material. Sweep up material using non-sparking materials (e.g., plastic brooms, shovels, dustpans) and place into a metal or plastic container. Large Spills: Keep incompatible materials (e.g., organics such as oil) away from spill. Stay upwind and away from spill or release. Isolate immediate hazard area and keep unauthorized personnel out of area. Stop spill or release if it can be done with minimal risk. Wear appropriate protective equipment including respiratory protection as conditions warrant. Sweep up material using non-sparking materials (e.g., plastic brooms, shovels, dustpans) and place into a metal or plastic container. 7. HANDLING & STORAGE INFORMATION 7.1 Work & Hygiene Practices: Do not eat, drink or smoke when handling this product. Contents under pressure. Handle as to avoid puncturing container(s). When used as intended, no additional protective equipment is necessary. Use chemical goggles if eye contact is possible. Wash unintentional residues with soap and warm water. 7.2 Storage & Handling: Use and store in a cool, dry, well-ventilated location (e.g., local exhaust ventilation, fans) away from heat and direct sunlight. Avoid temperatures above 120 °F. Keep away from incompatible substances. Protect containers from physical damage. To avoid unintentional spraying keep cap in place when not in use. 7.3 Special Precautions Clean all spills promptly. 8. EXPOSURE CONTROLS & PERSONAL PROTECTION Exposure Limits: ACGIH NOHSC OSHA OTHER 8.1 ppm (mg/m³) ES-ES-ES-CHEMICAL NAME(S) TLV STEL TWA STEL PEAK PEL STEL IDLH 1, 1-DIFLUOROETHANE (R-152A) 1000 NA 1000 NF NF NA NA NA 8.2 Ventilation & Engineering General mechanical (e.g., fans) or natural ventilation is sufficient when this product is in use. Use local or general Controls: exhaust ventilation to effectively remove and prevent buildup of vapors or mist generated from the handling of this product. Ensure appropriate decontamination equipment is available (e.g., sink, safety shower, eye-wash station) 8.3 Respiratory Protection: No special respiratory protection is required under typical circumstances of use or handling. In instances where fumes or vapors of this product are generated, and respiratory protection is needed, use only protection authorized by 29 CFR §1910.134, applicable U.S. state regulations, or the Canadian Standard Z94.4-93 or standards from EC member states, or Australia.



12 2

12.3

Effects on Plants & Animals:

Effects on Aquatic Life

SAFETY DATA SHEET

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SDS-E-CCS2007 Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision Date: 4/18/2023 8. EXPOSURE CONTROLS & PERSONAL PROTECTION - cont'd Avoid eye contact. None required under normal conditions of use. Safety glasses could be used 8.4 Eye Protection: when handling or using large quantities of this product. 8.5 Hand Protection: None required under normal conditions of use. However, may cause skin irritation in some sensitive individuals. When handling large quantities (e.g., ≥ 1 gallon (3.8 L)), wear rubber, nitrile or impervious plastic gloves 8.6 Body Protection: No apron required when handling small quantities. When handling large quantities (e.g., ≥ 5.0 lbs), eye wash stations and deluge showers should be available. Upon completion of work activities involving large quantities of this product, wash any exposed areas thoroughly with soap and water. 9. PHYSICAL & CHEMICAL PROPERTIES 9.1 Appearance: Aerosol, clear spray 9.2 Odorless 9.3 Odor Threshold NA 9.4 pH: NA Melting Point/Freezing Point: 9.5 -108 °C (-162 °F) Initial Boiling Point/Boiling 9.6 -26.5 °C (-15.7 °F) Range: 9.7 Flashpoint: NA 9.8 Upper/Lower Explosive Limits: LEL: 4.32% v/v; UEL: 17.35% v/v 99 Vapor Pressure: NA 9 10 Vapor Density: 2.28 (air = 1.0)Relative Density: 9.11 1.21 g/mg3 at 25 °C (68 °F) 9.12 Solubility: 3,200 g/l at 21 °C (70 °F) Partition Coefficient (log Pow): 9.13 9.14 Autoignition Temperature: 440 °C (824 °F) at 1,009.0 - 1,017.0 hPa (756.8 - 762.8 mmHg) Decomposition Temperature: 9.15 NA 9.16 Viscosity: NA 9 17 Other Information: NA 10. STABILITY & REACTIVITY 10.1 Stability Stable under normal conditions; unstable with heat or contamination. Hazardous Decomposition 10.2 Oxides of carbon (CO, CO₂), nitrogen (NO_x) and sulfur (SO₂). 10.3 Hazardous Polymerization: Will not occur. 10.4 Conditions to Avoid Open flames, sparks, high heat, incompatible substances and direct sunlight. 10.5 Incompatible Substances: Avoid extreme heat and ignition sources. Store away from oxidizers 11. TOXICOLOGICAL INFORMATION Inhalation: YES 11.1 Routes of Entry Absorption: YES Ingestion: YES 11.2 Toxicity Data: This product has NOT been tested on animals to obtain toxicology data. Toxicology data, found in scientific literature, is available for some of the components of the product. 11.3 Acute Toxicity: Moderate irritation to eyes and skin near affected areas. Additionally, high concentrations of vapors can cause drowsiness, dizziness, headaches and nausea. 11.4 Chronic Toxicity: This material may aggravate any pre-existing skin condition (e.g., dermatitis). 11.5 Suspected Carcinogen: This product does not contain any chemicals known to the State of California to cause cancer or other reproductive harm. For more information go to www.P65Warnings.ca.gov. Reproductive Toxicity: 11.6 This product is not reported to produce reproductive toxicity in humans Mutagenicity: This product is not reported to produce mutagenic effects in humans Embryotoxicity: This product is not reported to produce embryotoxic effects in humans. Teratogenicity: This product is not reported to cause teratogenic effects in humans. Reproductive Toxicity: This product is not reported to cause reproductive effects in humans. 117 Irritancy of Product: The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure. 118 Biological Exposure Indices: NE 11.9 Physician Recommendations: Treat symptomatically. 12. ECOLOGICAL INFORMATION 12.1 Environmental Stability There is no specific data available for this product.

There are no specific data available for this product.

to overexposed aquatic life

There are no specific data available for this product; however, very large releases of this product may be harmful or fatal



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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision Date: 4/18/2023 13. DISPOSAL CONSIDERATIONS 13.1 Waste Disposal: Products covered by this SDS, in their original form, when disposed as waste, are considered non hazardous waste according to Federal RCRA regulations (40 CFR 261). Disposal should be in accordance with local, state and federal regulations. Dispose of in accordance with federal, state and local regulations. 13.2 Special Considerations: U.S. EPA RCRA Hazardous Waste Code: D001 (Characteristic – Ignitability) 14. TRANSPORTATION INFORMATION The basic description (ID Number, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional descriptive information may be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR. 49 CFR (GND): UN1030, 1,1-DIFLUOROETHANE, 2.1 (LTD QTY, IP VOL ≤ 120 mL); or CONSUMER COMMODITY, ORM-D (IP VOL ≤ 0.12 L) - until 12/31/2020. Outer packaging must be marked "INSIDE CONTAINERS COMPLY WITH PRESCRIBED REGULATIONS" 14.2 IATA (AIR): UN1030, 1,1-DIFLUOROETHANE, 2.1 This product is FORBIDDEN for transport on passenger aircraft. IMDG (OCN): 14.3 UN1030, 1,1-DIFLUOROETHANE, 2.1 (LTD QTY, IP VOL ≤ 120 mL) 14.4 TDGR (Canadian GND): UN1030, 1,1-DIFLUOROETHANE, 2.1 (LTD QTY, IP VOL ≤ 120 mL) ADR/RID (EU): 14.5 UN1030, 1,1-DIFLUOROETHANE, 2.1 (LTD QTY, IP VOL ≤ 120 mL) 14.6 SCT (MEXICO) UN1030, 1,1-DIFLOROETANO, 2.1 (CANTIDADA LIMITADA, IP VOL ≤ 120 mL) ADGR (AUS): 14.7 UN1030, 1,1-DIFLUOROETHANE, 2.1 (LTD QTY, IP VOL ≤ 120 mL) 15. REGULATORY INFORMATION SARA Reporting 15.1 This product does not contain any substances subject to SARA Title III, section 313 reporting requirements. Requirements 15.2 SARA Threshold Planning There are no specific Threshold Planning Quantities for the components of this product. Quantity: 15.3 TSCA Inventory Status: The components of this product are listed on the TSCA Inventory CERCLA Reportable Quantity 15.4 NA Other Federal Requirements: 15.5 NA Other Canadian Regulations: 15.6 This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDSL. None of the components of this product are listed on the Priorities Substances List. WHMIS Class A, B5 (Compressed Gas, Flammable Aerosol) 15.7 State Regulatory Information: Difluoroethane can be found on the following state criteria lists: Massachusetts Hazardous Substances List (MA) and New Jersey Right-to-Know List (NJ). No other ingredients in this product, present in a concentration of 1.0% or greater, are listed on any of the following state criteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (DE), Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List (NY), Pennsylvania Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances List (WI). 15.8 Other Requirements: This product does not contain any chemicals known to the State of California to cause cancer or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards

SDS Revision: 3.2

SDS Revision Date: 4/18/2023

		16. OTHER INFORMATION	
16.1	Other Information:	DANGER! EXTREMELY FLAMMABLE GAS. CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED. Keep away from heat, hot surface, sparks, open flames and other ignition sources. No smoking. Do not pierce or but even after use. Protect from sunlight. Do not expose to temperatures exceeding 50 °C / 122 °F. If skin irritation occur get medical advice/attention. Leaking gas fire: Do not extinguish, unless leek can be stopped safely. Eliminate ignition sources if safe to do so. Protect from sunlight. Store in a well-ventilated place. Use only as directed. Aft contact with skin wash with plenty of warm water. In case of accident or if you feel unwell seek medical advice/immediately (show the label where possible). If skin irritation occurs: get medical advice/attention. KEEP LOCKED UP AND OUT OF REACH OF CHILDREN.	
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.	
16.3	Disclaimer:	This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Othe government regulations must be reviewed for applicability to this product. To the best of ShipMate's & CAIG Laboratories, Inc.'s knowledge, the information contained herein is reliable and accurate as of this date; however accuracy, suitability or completeness is not guaranteed and no warranties of any type, either expressed or implied, are provided. The information contained herein relates only to the specific product(s). If this product(s) is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.	
16.4	Prepared for:	CAIG Laboratories, Inc. 12200 Thatcher Court Poway, CA 92064-6876 Tel: +1 (800) CAIG-123 (244-4123) Fax: +1 (858) 486-8398 fax http://www.caig.com/	
16.5	Prepared by:	ShipMate, Inc. P.O. Box 787 Sisters, Oregon 97759-0787 USA Tel: +1 (310) 370-3600 Fax: +1 (310) 370-5700 http://www.shipmate.com	



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SDS-E-CCS2005

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards

SDS Revision: 3.2

SDS Revision Date: 4/18/2023

DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a SDS. Some of these that are commonly used include the following:

GENERAL INFORMATION:

CAS No.	Chemical Abstract Service Number
RTECS No. Registry of Toxic Effects of Chemical Substances Number	
EINECS No.	European Inventory of Existing Commercial Chemical Substances Number

EXPOSURE LIMITS IN AIR:

ACGIH	American Conference on Governmental Industrial Hygienists
IDLH	Immediately Dangerous to Life and Health
NOHSC	National Occupational Health and Safety Commission (Australia)
OSHA	U.S. Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
STEL Short Term Exposure Limit	
TLV Threshold Limit Value	
TWA Time Weighted Average	

FIRST AID MEASURES:

CPR	Cardiopulmonary resuscitation - method in which a person whose heart has
	stopped receives manual chest compressions and breathing to circulate blood
	and provide oxygen to the body.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

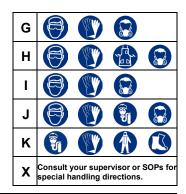
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

0	0 Minimal Hazard	
1	Slight Hazard	
2	Moderate Hazard	
3	Severe Hazard	
4	Extreme Hazard	



PERSONAL PROTECTION RATINGS:

Α			
В			
С		THE STATE OF THE S	
D		H.	
Е			
F		H.	





OTHER STANDARD ABBREVIATIONS:

Carc	Carc Carcinogenic	
Irrit	Irrit Irritant	
NA	Not Available	
NR	No Results	
ND	Not Determined	
NE	Not Established	
NF	Not Found	
SCBA	Self-Contained Breathing Apparatus	
Sens	Sensitization	
STOT RE	Specific Target Organ Toxicity – Repeat Exposure	
STOT SE	Specific Target Organ Toxicity – Single Exposure	

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:		
Autoignition Temperature	Minimum temperature required to initiate combustion in air with no other source of ignition	
LEL	Lower Explosive Limit - lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source	
UEL	Upper Explosive Limit - highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source	

HAZARD RATINGS:

0	Minimal Hazard	FLAMMABILITY
1 Slight Hazard		\
2 Moderate Hazard		REACTIVITY
3	Severe Hazard	
4	Extreme Hazard	
ACD	Acidic	
ALK	Alkaline	
COR	Corrosive	── / ▼ ₩ У
₩	Use No Water	HEALTH 🔪
OX	Oxidizer	SPECIAL
TREFOIL	Radioactive	PRECAUTIONS

TOXICOLOGICAL INFORMATION:

LD ₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals
LC ₅₀	Lethal concentration (gases) which kills 50% of the exposed animal
ppm	Concentration expressed in parts of material per million parts
TD _{io}	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TD _{Io} , LD _{Io} , & LD _o or	Lowest dose (or concentration) to cause lethal or toxic effects
TC, TCo, LCio, & LCo	
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
RTECS	Registry of Toxic Effects of Chemical Substances
BCF	Bioconcentration Factor
TLm	Median threshold limit
log Kow or log Koc	Coefficient of Oil/Water Distribution

REGULATORY INFORMATION:

WHMIS	Canadian Workplace Hazardous Material Information System	
DOT	U.S. Department of Transportation	
TC	Transport Canada	
EPA	U.S. Environmental Protection Agency	
DSL	Canadian Domestic Substance List	
NDSL	Canadian Non-Domestic Substance List	
PSL	Canadian Priority Substances List	
TSCA	U.S. Toxic Substance Control Act	
EU	European Union (European Union Directive 67/548/EEC)	
WGK	WGK Wassergefährdungsklassen (German Water Hazard Class)	

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

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Class A	Class B	Class C	Class D1	Class D2	Class D3	Class E	Class F
Compressed	Flammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive

CLP/GHS (1272/2008/EC) PICTOGRAMS:

			\Diamond			\Leftrightarrow		*
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment