DIMILIN® 25W

Version 1.9	Revision Date: 05/01/2015		SDS Number: 0000000959	Country: US Language: EN
SECTION	1. PRODUCT AND CC)MP/	ANY IDENTIFICAT	ION
Produ	uct name	:	DIMILIN® 25W	
Produ	uct code	:	40000000959	
Chem	Chemical nature		Mixture	
Manufacturer or supplier's Company name of supplier				ultural Solutions, Inc
Address		:	245 Freight St Waterbury, CT U	nited States of America 06702
Telep	Telephone		(800) 423-8569	
Recommended use of the of Recommended use		chen :		ons on use
Restrictions on use		:	Agriculture, For p	rofessional users only.

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

DANGER!			
Appearance	powder		
Colour	white		
Odour	mild, musty		
Hazard Summary	Avoid generating dust; fine dust dispersed in air in sufficient con- centrations, and in the presence of an ignition source is a poten- tial dust explosion hazard. May cause cancer. Very toxic to aquatic life with long lasting effects.		
OSHA Regulatory status	: This material is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.		
GHS Classification			
Carcinogenicity	: Category 1A		
Acute aquatic toxicity	: Category 1		
Chronic aquatic toxicity	: Category 1		

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	Label element and pictograms		
Signa	al word	: Danger	
Haza	rd statements	: H350 May caus H410 Very toxi	se cancer. c to aquatic life with long lasting effects.
Preca	autionary statements	P202 Do not ha and understood P273 Avoid rele P281 Use pers Response: P308 + P313 If attention. P391 Collect sp Storage: P405 Store loc Disposal:	ease to the environment. onal protective equipment as required. = exposed or concerned: Get medical advice/ billage.
Pote	ntial Health Effects		
Inhala	ation	incorporating c	ealth effects due to inhalation of mineral dusts rystalline silica (quartz, cristobalite, tridymite), ates (kaolin, talc) graphite or coal.
Skin		: Contact with du the skin.	ust can cause mechanical irritation or drying of
Eyes		: Dust contact w	ith the eyes can lead to mechanical irritation.
Chro	nic Exposure	: Cancer	
Aggra tion	avated Medical Condi-	: None known.	
Symp	otoms of Overexposure	: irritant effects	
Carc IARC	inogenicity: C	Group 1: Carcinoo kaolin	genic to humans 1332-58-7
		Group 1: Carcino	genic to humans
OSH	Α	No component of	this product present at levels greater than or

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		equal to 0.1% is ide gen by OSHA.	entified as a carcinogen or poter	itial carcino-
			is product present at levels great entified as a carcinogen or poter	
NTP		Known to be humar	n carcinogen	
		kaolin		1332-58-7
		quartz (SiO2)		14808-60-7
		Known to be humar	n carcinogen	
		kaolin		1332-58-7

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture

Chemical nature	:	Mixture
-----------------	---	---------

Hazardous components

Chemical Name	CAS-No.	Concentration (%)
kaolin	1332-58-7	>= 50 - < 70
N-[[(4-chlorophenyl)amino]carbonyl]-2,6- difluorobenzamide	35367-38-5	>= 20 - < 30
silicon dioxide	7631-86-9	>= 1 - < 5
quartz (SiO2)	14808-60-7	>= 1 - < 5
sodium diisopropylnaphthalenesulphonate	1322-93-6	>= 1 - < 5

SECTION 4. FIRST AID MEASURES

General advice	: No hazards which require special first aid measures.
If inhaled	 Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. If symptoms persist, call a physician.
In case of skin contact	: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water.
In case of 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.
If swallowed	: Clean mouth with water and drink afterwards plenty of water.

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		Never give anyth	or alcoholic beverages. ing by mouth to an unconscious person. ist, call a physician.
Notes	to physician		cedure should be established in consultation responsible for industrial medicine.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local circum- stances and the surrounding environment.
Specific hazards during fire- fighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
Specific extinguishing methods	:	Use extinguishing measures that are appropriate to local circum- stances and the surrounding environment.
Further information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency pro- cedures	:	Avoid dust formation. Ensure adequate ventilation.
Environmental precautions	:	Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respec- tive authorities.
Methods and materials for con- tainment and cleaning up	:	Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	: Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.
Advice on safe handling	 Use plant protection products safely. Always read the label and product information before use. For personal protection see section 8. Dispose of rinse water in accordance with local and national regula-

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Condit	ions for safe storage	tions. : Keep container ti	ghtly closed in a dry and well-ventilated place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type	Control parameters	Basis
•		(Form of ex-	/ Permissible con-	
		posure)	centration	
kaolin	1332-58-7	TWA (Respir-	2 mg/m3	ACGIH
		able fraction)		
		TWA (total	15 mg/m3	OSHA Z-1
		dust)		
		TWA (respir-	5 mg/m3	OSHA Z-1
		able fraction)		
		TWA (Respir-	5 mg/m3	NIOSH REL
		able)		
		TWA (total)	10 mg/m3	NIOSH REL
		TWA (Total	10 mg/m3	OSHA P0
		dust)		
		TWA (respir-	5 mg/m3	OSHA P0
		able dust frac-		
		tion)		
silicon dioxide	7631-86-9	TWA (Dust)	20 Million particles	OSHA Z-3
			per cubic foot	
			(Silica)	
		TWA (Dust)	80 mg/m3 / %SiO2	OSHA Z-3
			(Silica)	
		TWA	6 mg/m3	NIOSH REL
			(Silica)	
quartz (SiO2)	14808-60-7	TWA (Respir-	0.025 mg/m3	ACGIH
,		able fraction)		
		TWA (total	30 mg/m3 /	OSHA Z-3
		dust)	%SiO2+2	
		TWA (respir-	250 mppcf /	OSHA Z-3
		able)	%SiO2+5	
		TWA (respir-	10 mg/m3 /	OSHA Z-3
		able)	%SiO2+2	
		TWA (Respir-	0.1 mg/m3	OSHA P0
		able fraction)	-	
		TWA (respir-	0.1 mg/m3	OSHA P0
		able dust frac-		
		tion)		
		TWA (Respir-	0.025 mg/m3	ACGIH
		able fraction)	(Silica)	
		TWA (respir-	0.05 mg/m3	NIOSH REL
		able dust)	(Silica)	
		TWA (Respir-	0.025 mg/m3	ACGIH
		able fraction)	(Silica)	

Components with workplace control parameters

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				TWA (respir- able dust)	0.05 mg/m3 (Silica)	NIOSH REL
Perso	onal protective equip	pment				
Respir	Respiratory protection			nasks are recom e than 10 mg/m3	mended when the 3.	dust concen-
Hand	protection					
Rer	narks	:	protective glo Directive 89/6	ves have to sati 886/EEC and the	tyl-rubber gloves T sfy the specificatio standard EN 374 ean them with soap	ns of EU derived from
Eye p	rotection	:	: Eye wash bottle with pure water Tightly fitting safety goggles			
Skin a	and body protection	:	: Dust impervious protective suit Choose body protection according to the amount and con centration of the dangerous substance at the work place.			
Hygie			tice.	-	industrial hygiene a	

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	powder
Colour	:	white
Odour	:	mild, musty
Odour Threshold	:	No data available
рН	:	8 - 9, 1 %
Melting point/range	:	No data available
Boiling point/boiling range	:	Not applicable
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	Does not sustain combustion.
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Vapour pressure	:	Not applicable

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	Relative vapour density		:	Not applicable	
	Relative	e density	:	No data available	
	Density		:	0.34 g/cm3	
	Solubil Wate	ity(ies) er solubility	:	dispersible	
	Solu	bility in other solvents	:	No data available	9
	Partition octanol	n coefficient: n- /water	:	No data availabl	9
	Auto-ig	nition temperature	:	> 377 °C	
	Decom	position temperature	:	No data available	9
	Viscos Visc	ity osity, dynamic	:	Not applicable	
	Visc	osity, kinematic	:	Not applicable	
		ccelerating decomposition ature (SADT)	n :	Method: No info	mation available.
	Oxidisi	ng potential	:	The substance c	r mixture is not classified as oxidizing.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac- tions	:	No decomposition if used as directed. Dust may form explosive mixture in air.
Conditions to avoid	:	No data available
Incompatible materials	:	No data available
Hazardous decomposition prod- ucts	:	No data available

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of : Inhalation exposure Acute toxicity

Product:

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Acute	e oral toxicity	: LD50 (Rat): > 1 GLP: no	0,000 mg/kg
Acute	e inhalation toxicity	tion toxicity Remarks: An L	4 h e: dust/mist ne substance or mixture has no acute inhala- C50/inhalation/4h/rat could not be determined rtality of rats was observed at the maximum
Acute	e dermal toxicity	: LD50 (Rat): > 2	0,000 mg/kg
	ponents:		
kaol i Acute	i n: e oral toxicity	: LD50 (Rat): > 5	,000 mg/kg
Acute	e dermal toxicity	: LD50 (Rat): > 5	,000 mg/kg
silic	on dioxide:		
	e oral toxicity	: LD50 (Rat): > 2 Method: OECD	,000 mg/kg Test Guideline 401
Acute	e dermal toxicity	: LD50 (Rabbit): GLP: no	> 2,000 mg/kg
Skin	corrosion/irritation		
Prod	luct:		
Resu	sies: Rabbit ılt: No skin irritation : yes		
silice Meth	ponents: on dioxide: od: OECD Test Guidel ılt: No skin irritation	ine 404	
Serio	ous eye damage/eye i	rritation	
Prod			
	cies: Rabbit ult: No eye irritation : yes		
silico	ponents: on dioxide: Ilt: No eye irritation		
sodi	um diisopropylnaphth	nalenesulphonate:	

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Result: Irritating to eyes.

Respiratory or skin sensitisation

Product:

Species: Guinea pig Result: Did not cause sensitisation on laboratory animals. Remarks: Non sensitizing.

Components:

silicon dioxide: Test Type: Maximisation Test (GPMT) Species: Guinea pig Assessment: Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

Product:

Germ cell mutagenicity -	:	negative
Assessment		

Components:

silicon dioxide: Genotoxicity in vitro	:	Test Type: Ames test Metabolic activation: with and without metabolic activation Result: negative GLP: no
	:	Test Type: Unscheduled DNA synthesis (UDS) Result: negative
Genotoxicity in vivo	:	Test Type: in vivo assay Species: Rat (male) Application Route: Oral Result: negative GLP: no
		Test Type: in vivo assay Species: Rat (male and female) Application Route: Oral Result: negative GLP: no
Germ cell mutagenicity - Assessment	:	Animal testing did not show any mutagenic effects.
quartz (SiO2): Genotoxicity in vitro	:	Test Type: Ames test Metabolic activation: with and without metabolic activation Result: negative

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rsion)	Revision Date: 05/01/2015	MSDS Number: 400000000959	Country: US Language: EN
Geno	otoxicity in vivo	: Test Type: in v Result: negativ	
Carc	inogenicity		
Prod	<u>uct:</u>		
Carci ment	nogenicity - Assess-	: negative	
kaoli	nogenicity - Assess-	: Weight of evider	nce does not support classification as a carcinogen
	on dioxide: nogenicity - Assess-	: Animal testing d	id not show any carcinogenic effects.
Repr	oductive toxicity		
Prod Repression	oductive toxicity - As-	: negative	
Com	ponents:		
	on dioxide: oductive toxicity - As- ment	: No toxicity to re No effects on or	L
STO	Γ - single exposure		
sodi Expos Targe	ponents: um diisopropylnaphth sure routes: Inhalation t Organs: Respiratory syst sment: May cause respirat	tem	
STO	Г - repeated exposure		
<u>Com</u>	ponents:		

Further information

Product:

Remarks: No data available

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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Product:	
Toxicity to fish	:
	Remarks: Information refers to the main component.
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 0.000112 mg/l Exposure time: 48 h GLP: yes
Toxicity to algae	: Remarks: Information refers to the main component.
<u>Components:</u>	
kaolin: Toxicity to daphnia and other aquatic invertebrates	: LC50 (Daphnia magna (Water flea)): > 1,100 mg/l Exposure time: 48 h
N-[[(4-chlorophenvl)aminolca	arbonyl]-2,6-difluorobenzamide:
M-Factor (Acute aquatic tox- icity)	: 100
M-Factor (Chronic aquatic toxicity)	: 1,000
silicon dioxide: Toxicity to fish	: LC50 (Danio rerio (zebra fish)): > 5,000 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): > 5,000 mg/l Exposure time: 24 h
Toxicity to algae	: EC50 (Algae): 440 mg/l Exposure time: 72 h Remarks: Information given is based on data obtained from similar substances.
Persistence and degradabilit	у
Product:	
Biodegradability	: Remarks: No data available
Components:	
silicon dioxide: Biodegradability	: Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

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Bioa	ccumulative potential		
<u>Prod</u> Bioac	<u>uct:</u> ccumulation	: Remarks: No o	data available
Mobi	lity in soil		
<u>Prod</u> Mobil		: Remarks: No o	data available
Othe	r adverse effects		
	uct: Its of PBT and vPvB ssment	: No data availa	able
Addit matio	ional ecological infor- n	effects in the a An environme	aquatic organisms, may cause long-term adverse aquatic environment. ntal hazard cannot be excluded in the event of al handling or disposal.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	 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. Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging	 Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International Regulation

IATA-DGR UN/ID No. Proper shipping name	 UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., Environmentally hazardous substance, solid, n.o.s. (Diflubenzuron)
Class	: 9
Packing group	: 111
Labels	: Miscellaneous
Packing instruction (cargo aircraft)	: 956

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	ng instruction (passen- ircraft)	: 956	
UN n	i-Code umber er shipping name	: UN 3077 : ENVIRONMEN N.O.S. (Diflubenzuror	ITALLY HAZARDOUS SUBSTANCE, SOLID,
Label EmS	ng group s	: 9 : III : 9 : F-A, S-F : no	,
	sport in bulk accordin pplicable for product as	-	RPOL 73/78 and the IBC Code
Natio	nal Regulations		
	FR D/NA number er shipping name	: UN 3077 : (Diflubenzuror	
Class Packi Label ERG	ng group s	: 9 : III : CLASS 9 : 171	')

SECTION 15. REGULATORY INFORMATION

OSHA Hazards

Marine pollutant

: Combustible dust, Carcinogen

EPCRA - Emergency Planning and Community Right-to-Know Act

: no

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
4-chloroaniline	106-47-8	1000	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards	: Chronic Health Hazard
SARA 302	: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313	: The following components are subject to reporting levels es tablished by SARA Title III, Section 313:

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		N-[[(4- chloro- phenyl)amino]ca 2,6-difluorobenz		24.2549 %
Califor	r nia Prop 65 kaolin quartz (SiO: 4-chloroanil	State of Californ 2)	s product contains a chemica ia to cause cancer. 1332-58-7 14808-60-7 106-47-8	l known to the

FIFRA Hazard Information:

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The pesticide label also includes other important information, including directions for use.

The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

Causes moderate eye irritation. Avoid contact with eyes or clothing.

This pesticide is toxic to aquatic invertebrates. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic invertebrate organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate.

This product may contaminate water through drift of spray in wind. This product has a potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. A level, well maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential for contamination or water from rainfall-runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours. Sound erosion control practices will reduce this product's contribution to surface water contamination.

Bees and other insect pollinators can be exposed to this pesticide from:

• Direct contact during foliar applications, or contact with residues on plant surfaces after foliar applications

• Ingestion of residues in nectar and pollen when the pesticide is applied as a foliar application. When using this product take steps to:

• Minimize exposure of this product to bees and other insect pollinators when they are foraging on pollinator attractive plants around the application site.

• Minimize drift of this product on to beehives or to off-site pollinator attractive habitat. Drift of this product onto beehives or off-site to pollinator attractive habitat can result in bee kills.

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SECTION 16. OTHER INFORMATION





The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / EN

Carechem24 International Worldwide Coverage

Emergency Phone Number

Europe:	All European Countries	+44 (0) 1235 239 670 (NCEC)
Asia Pacific:	East / South East Asia – Regional Number	+65 3158 1074
	Australia	+61 2801 44558
	New Zealand	+64 9929 1483
	China	+86 532 8388 9090
	China Taiwan	+86 10 5100 3039
	Japan	+81 345 789 341
	Indonesia	00780 3011 0293
	Malaysia	+60 3 6207 4347

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	Thailand	001800 1 2066 6751
	Korea	+65 3158 1285 +82 (0)234 798 401
	Vietnam	+65 3158 1255
	India	+65 3158 1198 +91 1166 411 405
	Pakistan	+65 3158 1329
	Philippines	+65 31581203
	Sri Lanka	+65 3158 1195
	Emergency Phone Number	+65 3158 1200
Middle East / Africa:	Arabic speaking countries	+44 (0) 1235 239 671
	South Africa	+27 21 300 2732
	All other countries	+44 (0) 1235 239 670
<u>America</u>	United States of America and Canada	+1866 928 0789 +1 215 207 0061
Latin America:	Brazil	+55 113 711 9144
	Mexico	+52 555 004 8763
	Chile	+56 225 829 336
	All other countries	+44 (0) 1235 239 670