

Material Safety Data Sheet

ACRAMITE® 50 WS MITICIDE

Version 1.11 Revision Date: 15.10.2015 MSDS Number: 400000004061 Country: CA
Language: EN

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : ACRAMITE® 50 WS MITICIDE

Product code : 400000004061

Manufacturer or supplier's details

Company: MacDermid Agricultural Solutions, Inc
245 Freight St
Waterbury, CT
United States of America
06702
Telephone : +1 800 423 8569

Prepared by sds.request@arysta.com

Further information for the safety data sheet :
sds.request@arysta.com

1.4 Emergency telephone number

Emergency telephone number: 613-996-6666 (call collect) (CANUTEC)
For additional emergency telephone numbers see section 16 of the
Safety Data Sheet.

Recommended use : Miticide

Restrictions on use : Agriculture, For professional users only.

Prepared by :
sds.request@arysta.com

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

DANGER!	
Appearance	powder
Colour	white, to, off-white
Odour	No data available

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Hazard Summary	May cause an allergic skin reaction. Causes eye irritation. May cause cancer. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Very toxic to aquatic life with long lasting effects. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
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WHMIS Regulatory status : This product, material or substance is considered a WHMIS controlled product per Sections 33 - 66, Part IV of the CPR. This product is registered under the Pest Control Products Act and is therefore exempt from WHMIS supplier labeling and MSDS requirements. Please read entire MSDS and product label for safety precautions.

Potential Health Effects

Inhalation : Occupational health effects due to inhalation of mineral dusts incorporating crystalline silica (quartz, cristobalite, tridymite), crystalline silicates (kaolin, talc) graphite or coal.

Skin : May cause allergic skin reaction.
Contact with dust can cause mechanical irritation or drying of the skin.

Eyes : Causes eye irritation.
Dust contact with the eyes can lead to mechanical irritation.

Chronic Exposure : May cause cancer by inhalation.

Aggravated Medical Condition : None known.

Symptoms of Overexposure : Allergic reactions
irritant effects

Carcinogenicity:

IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Group 1: Carcinogenic to humans

kaolin

1332-58-7

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

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Substance / Mixture : Mixture

Hazardous components

Chemical Name	CAS-No.	Concentration (% w/w)
Bifenazate	149877-41-8	>= 50 - < 70
kaolin	1332-58-7	>= 30 - < 50
silica gel	112926-00-8	>= 5 - < 10
sodium 2-[methyleoleoylamino]ethane-1-sulphonate	137-20-2	>= 1 - < 5

SECTION 4. FIRST AID MEASURES

If inhaled : If breathed in, move person into fresh air.
Give oxygen or artificial respiration if needed.
Consult a physician after significant exposure.

In case of skin contact : Remove contaminated clothing and shoes.
Wash off with warm water and soap.
If symptoms persist, call a physician.

In case of eye contact : Rinse thoroughly with plenty of water for at least 15 minutes
and consult a physician.

If swallowed : Do NOT induce vomiting.
Rinse mouth with water.
Obtain medical attention.

Notes to physician : The first aid procedure should be established in consultation
with the doctor responsible for industrial medicine.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Carbon dioxide (CO₂)
Dry powder
Foam
- water fog

Unsuitable extinguishing media : Water spray

Specific hazards during fire-fighting : No information available.

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Further information : Do not discharge extinguishing waters into streams, rivers and lakes.

Special protective equipment for firefighters : Body covering protective clothing, full "turn-out" gear.
Self-contained breathing apparatus (EN 133)

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SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Wear suitable protective equipment.
Avoid contact with skin and eyes.
- Environmental precautions : Toxic to fish.
Do not allow uncontrolled discharge of product into the environment.
Do not contaminate ponds, waterways or ditches with chemical or used container.
- Methods and materials for containment and cleaning up : Remove all sources of ignition.
Avoid dust formation.
Clean up promptly by scoop or vacuum.
Do not create a powder cloud by using a brush or compressed air.
Keep in suitable, closed containers for disposal.
Ventilate the area.

SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Handle and open container with care.
Use only in area provided with appropriate exhaust ventilation.
Avoid dust formation.
Keep away from heat and sources of ignition.
Take precautionary measures against static discharges.
Avoid inhalation, ingestion and contact with skin and eyes.
Keep container closed when not in use.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
Store at room temperature in the original container.
Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
kaolin	1332-58-7	TWA (Respirable)	2 mg/m ³	CA BC OEL
		TWAEV (Respirable)	2 mg/m ³	CA ON OEL
		TWA (Respirable)	2 mg/m ³	CA AB OEL
		TWAEV (respirable dust)	5 mg/m ³	CA QC OEL
		TWA (Respir-	2 mg/m ³	ACGIH

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silica gel	112926-00-8	able fraction) TWAEV	10 mg/m ³	CA ON OEL
		TWAEV (Total)	10 mg/m ³	CA ON OEL
		TWAEV (respirable dust)	6 mg/m ³	CA QC OEL
		TWA (Respirable)	1.5 mg/m ³	CA BC OEL
		TWA (Total)	4 mg/m ³	CA BC OEL
quartz (SiO ₂)	14808-60-7	TWA (Respirable particulates)	0.1 mg/m ³	CA AB OEL
		TWA (Respirable fraction)	0.1 mg/m ³	CA ON OEL
		TWA (Respirable particulates)	0.025 mg/m ³	CA AB OEL
		TWAEV (respirable dust)	0.1 mg/m ³	CA QC OEL
		TWA (Respirable)	0.025 mg/m ³ (Silica)	CA BC OEL
		TWA (Respirable fraction)	0.025 mg/m ³	ACGIH
		TWA (Respirable fraction)	0.025 mg/m ³ (Silica)	ACGIH

Engineering measures : Use mechanical ventilation for general area control.
 Ensure that extracted air cannot be returned to the workplace through the ventilation system.
 Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.
 Respirator with combination filter for vapour/particulate (EN 141)

Hand protection

Remarks : Chemical resistant protective gloves

Eye protection : Safety glasses with side-shields

Skin and body protection : Long sleeved clothing
 Remove and wash contaminated clothing before re-use.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
 Ensure adequate ventilation, especially in confined areas.
 Avoid contact with skin, eyes and clothing.
 Do not breathe dust.
 Wear suitable gloves and eye/face protection.

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When using do not eat, drink or smoke.
Wash thoroughly after handling.
Keep working clothes separately.
Remove and wash contaminated clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: powder
Colour	: white, to, off-white
Odour	: No data available
Odour Threshold	: No data available
pH	: 10.3
Melting point/range	: No data available
Boiling point/boiling range	: Not applicable
Flash point	: Not applicable
Evaporation rate	: Not applicable
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: Not applicable
Relative vapour density	: Not applicable
Relative density	: No data available
Solubility(ies)	
Water solubility	: slightly soluble
Solubility in other solvents	: partly soluble
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	
Viscosity, dynamic	: Not applicable
Viscosity, kinematic	: Not applicable
Self-Accelerating decomposition	: Method: No information available.

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temperature (SADT)

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : Hazardous polymerisation does not occur.

Conditions to avoid : Extremes of temperature and direct sunlight.

Incompatible materials : Oxidizing agents
Strong acids and strong bases

Hazardous decomposition products : Burning produces noxious and toxic fumes.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Skin contact
Eye contact
Inhalation

Acute toxicity

Product:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5.2 mg/l
Exposure time: 4 h

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

Components:

Bifenazate:

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 401
GLP: yes

LD50 (Mouse, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 401
GLP: yes

Acute inhalation toxicity : LC50 (Rat, male and female): > 4.4 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
GLP: yes
Assessment: The substance or mixture has no acute inhala-

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tion toxicity
Remarks: An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.

Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 402
GLP: yes

kaolin:
Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg

silica gel:
Acute oral toxicity : LD50 (Rat): > 22,500 mg/kg

Skin corrosion/irritation

Product:

Species: Rabbit
Result: Mild skin irritation
Remarks: May cause slight irritation.

Components:

Bifenazate:

Species: Rabbit
Exposure time: 4 h
Method: OECD Test Guideline 404
Result: No skin irritation
GLP: yes

silica gel:
Result: No skin irritation

Serious eye damage/eye irritation

Product:

Species: Rabbit
Result: Mild eye irritation

Components:

Bifenazate:

Species: Rabbit
Result: No eye irritation
Exposure time: 48 h
Method: OECD Test Guideline 405
GLP: yes

silica gel:
Result: No eye irritation

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Respiratory or skin sensitisation

Product:

Remarks: May cause sensitisation of susceptible persons by skin contact.

Components:

Bifenazate:

Test Type: Maximisation Test (GPMT)
Species: Guinea pig
Assessment: May cause sensitisation by skin contact.
Method: OECD Test Guideline 406
GLP: yes

Germ cell mutagenicity

Product:

Germ cell mutagenicity - Assessment : negative

Components:

Bifenazate:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Result: negative
GLP: yes

: Test Type: In Vitro mammalian Cell Gene Mutation Test
Metabolic activation: with and without metabolic activation
Result: negative
GLP: yes

: Test Type: Chromosome aberration test in vitro
Metabolic activation: with and without metabolic activation
Result: negative
GLP: yes

Genotoxicity in vivo : Test Type: In vivo micronucleus test
Species: Mouse
Result: negative
GLP: yes

Germ cell mutagenicity - Assessment : Animal testing did not show any mutagenic effects.

Carcinogenicity

Components:

Bifenazate:

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

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silica gel:

Carcinogenicity - Assessment : IARC Class 3, not classifiable as to carcinogenicity to humans

Reproductive toxicity

Product:

Reproductive toxicity - Assessment : negative
negative

Components:

Bifenazate:

Reproductive toxicity - Assessment : No toxicity to reproduction
No effects on or via lactation

STOT - single exposure

Components:

Bifenazate:

Assessment: Based on available data, the classification criteria are not met.

STOT - repeated exposure

Components:

Bifenazate:

Assessment: Based on available data, the classification criteria are not met.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Bifenazate:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.58 mg/l
Exposure time: 96 h
Test Type: flow-through test
GLP: yes

LC50 (Oncorhynchus mykiss (rainbow trout)): 0.76 mg/l
Exposure time: 96 h
Test Type: flow-through test
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.5 mg/l
Exposure time: 48 h
Test Type: flow-through test
GLP: yes

LC50 (Crassostrea virginica): 0.42 mg/l

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Exposure time: 96 h
Test Type: flow-through test
GLP: yes

Toxicity to algae : IC50 (Lemna gibba (gibbous duckweed)): > 3.82 mg/l
Exposure time: 7 d
Analytical monitoring: yes
GLP: yes

NOEC (Lemna gibba (gibbous duckweed)): > 3.82 mg/l
Exposure time: 7 d
Analytical monitoring: yes
GLP: yes

NOEC (Selenastrum capricornutum (green algae)): 0.25 mg/l
Exposure time: 96 h
GLP: yes

ErC50 (Selenastrum capricornutum (green algae)): > 2.02 mg/l
Exposure time: 96 h
GLP: yes

EbC50 (Selenastrum capricornutum (green algae)): 0.9 mg/l
Exposure time: 96 h
GLP: yes

NOEC (Navicula pelliculosa): 0.52 mg/l
Exposure time: 96 h
GLP: yes

EbC50 (Navicula pelliculosa): 0.82 mg/l
Exposure time: 96 h
GLP: yes

ErC50 (Navicula pelliculosa): 1.4 mg/l
Exposure time: 96 h
GLP: yes

NOEC(b) (Anabaena flos-aquae (cyanobacterium)): 0.53 mg/l
Exposure time: 96 h
GLP: yes

NOEC(r) (Anabaena flos-aquae (cyanobacterium)): 1.13 mg/l
Exposure time: 96 h
GLP: yes

EbC50 (Anabaena flos-aquae (cyanobacterium)): 1.8 mg/l
Exposure time: 96 h
GLP: yes

ErC50 (Anabaena flos-aquae (cyanobacterium)): > 4.48 mg/l
Exposure time: 96 h
GLP: yes

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NOEC (Skeletonema costatum (marine diatom)): 0.2 mg/l
Exposure time: 96 h
GLP: yes

EbC50 (Skeletonema costatum (marine diatom)): 0.3 mg/l
Exposure time: 96 h
GLP: yes

ErC50 (Skeletonema costatum (marine diatom)): 0.36 mg/l
Exposure time: 96 h
GLP: yes

M-Factor (Acute aquatic toxicity) : 1

Toxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus mykiss (rainbow trout)): 0.017 mg/l
Exposure time: 87 d
Test Type: flow-through test
Analytical monitoring: yes
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.15 mg/l
Exposure time: 21 d
Analytical monitoring: yes
GLP: yes

M-Factor (Chronic aquatic toxicity) : 1

Toxicity to soil dwelling organisms : LC50 (Eisenia fetida (earthworms)): > 1,250 mg/kg
Exposure time: 14 d
GLP: yes

NOEC (Eisenia fetida (earthworms)): 95 mg/kg
Exposure time: 14 d
GLP: yes

Toxicity to terrestrial organisms : LD50 (Apis mellifera (bees)): 8.50 µg/bee
Exposure time: 48 h
End point: mortality
GLP: yes

kaolin:

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): > 1,100 mg/l
Exposure time: 48 h

silica gel:

Toxicity to fish : LC50 (Fish): > 10,000 mg/l
Exposure time: 96 h
Test Type: static test

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Persistence and degradability

Components:

Bifenazate:

Biodegradability : Result: According to the results of tests of biodegradability this product is not readily biodegradable.

Bioaccumulative potential

Components:

Bifenazate:

Partition coefficient: n-octanol/water : log Pow: 3.4 (25 °C)

Mobility in soil

Product:

Mobility : Remarks: No data available

Other adverse effects

Product:

Results of PBT and vPvB assessment : No data available

Additional ecological information : No information on ecology is available. Information refers to the main component.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Do not contaminate ponds, waterways or ditches with chemical or used container.
Dispose of as special waste in compliance with local and national regulations.

SECTION 14. TRANSPORT INFORMATION

International Regulation

UNRTDG

No. UN : UN 3077
Nom d'expédition : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Bifenazate)
Classe : 9
Groupe d'emballage : III
Étiquettes : 9

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IATA-DGR

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

IMDG-Code

UN number : UN 3077
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Bifenazate)
Class : 9
Packing group : III
Labels : 9
EmS Code : F-A, S-F
Marine pollutant : yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

TDG

UN number : UN 3077
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Bifenazate)
Class : 9
Packing group : III
Labels : 9
ERG Code : 171
Marine pollutant : yes
Remarks : Not regulated by DOT and TDG if shipped or transported in packaging less than 400KG by road and/or rail. Please refer to 49 CFR for any details.

SECTION 15. REGULATORY INFORMATION

WHMIS Classification : This product is registered under the Pest Control Products Act and is therefore exempt from WHMIS supplier labeling and MSDS requirements. Please read entire MSDS and product label for safety precautions.

D2A: Very Toxic Material Causing Other Toxic Effects
D2B: Toxic Material Causing Other Toxic Effects

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This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

Canadian lists

No substances are subject to a Significant New Activity Notification.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

(Q)SAR - (Quantitative) Structure Activity Relationship; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CPR - Controlled Products Regulations; DIN - Standard of the German Institute for Standardisation; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; OECD - Organization for Economic Cooperation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TDG - Transportation of Dangerous Goods; UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System; DSL - Domestic Substances List (Canada); KECI - Korea Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); AICS - Australian Inventory of Chemical Substances; IECSC - Inventory of Existing Chemical Substances in China; ENCS - Existing and New Chemical Substances (Japan); ISHL - Industrial Safety and Health Law (Japan); PICCS - Philippines Inventory of Chemicals and Chemical Substances; NZIoC - New Zealand Inventory of Chemicals; TCSI - Taiwan Chemical Substance Inventory; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice

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.

CA / EN

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Carechem24 International Worldwide Coverage

Emergency Phone Number

<u>Europe:</u>	All European Countries	+44 (0) 1235 239 670 (NCEC)
<u>Asia Pacific:</u>	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
	Thailand	001800 1 2066 6751
	Korea	+65 3158 1285 +82 (0)234 798 401
	Vietnam	+65 3158 1255
	India	+65 3158 1198 0800 100 7479
	Pakistan	+65 3158 1329
	Philippines	+65 31581203
	Sri Lanka	+65 3158 1195
	Emergency Phone Number	+65 3158 1200
<u>Middle East / Africa:</u>	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
<u>Latin America:</u>	Brazil	+55 113 711 9144
	Mexico	+52 555 004 8763
	Chile	+56 225 829 336
	All other countries	+44 (0) 1235 239 670