SECTION 1. IDENTIFICATION

Product name : VITAVAX® 34 FF SEED TREATMENT FUNGICIDE
Product code : 000000003702

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 material safety data sheet : sds.request@arysta.com

1.4 Emergency telephone
Emergency telephone: Agriphar Crop Solutions: +1 800 423 8569(24 hours) 800-424-9300
For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

Recommended use of the chemical and restrictions on use
Recommended use : Seed treatment
Fungicide
Restrictions on use : Agriculture, For professional users only.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification
Acute toxicity (Inhalation) : Category 3
Specific target organ systemic toxicity - repeated exposure (Oral) : Category 2
SAFETY DATA SHEET

VITAVAX® 34 FF SEED TREATMENT FUNGICIDE

Version 1.2  Revision Date: 10/26/2015  MSDS Number: 00000003702  Country: US  Language: Z8

GHS Label element

Hazard pictograms:

Signal Word: Danger

Hazard Statements:

H331 Toxic if inhaled.
H373 May cause damage to organs through prolonged or repeated exposure if swallowed.

Precautionary Statements:

Prevention:
P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
P271 Use only outdoors or in a well-ventilated area.
Response:
P304 + P340 + P311 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician.
P314 Get medical advice/ attention if you feel unwell.
Storage:
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards
None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture: Mixture

Chemical nature: Carboxin - 34%

Hazardous ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>carboxin</td>
<td>5234-68-4</td>
<td>&gt;= 30 - &lt; 50</td>
</tr>
<tr>
<td>ethane-1,2-diol</td>
<td>107-21-1</td>
<td>&gt;= 20 - &lt; 30</td>
</tr>
<tr>
<td>Distillates (petroleum), solvent-dewaxed heavy paraffinic</td>
<td>64742-65-0</td>
<td>&gt;= 5 - &lt; 10</td>
</tr>
</tbody>
</table>

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: Wash off with warm water and soap. If symptoms persist, call a physician. Wash contaminated clothing before re-use.

In case of eye contact: Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.

If swallowed: Do NOT induce vomiting. Prevent vomiting if possible. Risk of serious damage to the lungs (by aspiration). Clean mouth with water and drink afterwards plenty of water. Obtain medical attention. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed: No information available. Toxic if inhaled. May cause damage to organs through prolonged or repeated exposure.

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

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Extinguishing media - large fires
Alcohol-resistant foam
(on small fires)
Dry chemical
Carbon dioxide (CO2)

Unsuitable extinguishing media: High volume water jet

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

Further information: Fight fire with normal precautions from a reasonable distance. Keep away from fire, sparks and heated surfaces. Use water spray to cool unopened containers. Prevent fire extinguishing water from contaminating surface water or the ground water system.

Special protective equipment for fire-fighters: In the event of fire, wear self-contained breathing apparatus. Full protective flameproof clothing

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Wear suitable protective clothing, gloves and eye/face protection. Ensure adequate ventilation. Keep in properly labeled containers.
Dispose of rinse water as waste water.

Environmental precautions: Toxic to aquatic life. Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

Methods and materials for containment and cleaning up: Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Large spills should be collected mechanically (remove by pumping) for disposal. 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 well-ventilated areas. In case of insufficient ventilation, wear suitable respiratory equipment. Wear suitable protective clothing, gloves and eye/face protection. Avoid inhalation, ingestion and contact with skin and eyes. Wash thoroughly after handling. Keep container closed when not in use.

Conditions for safe storage: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep only in the original container.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
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<tbody>
<tr>
<td>ethane-1,2-diol</td>
<td>107-21-1</td>
<td>C</td>
<td>50 ppm 125 mg/m³</td>
<td>OSHA P0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C</td>
<td>100 mg/m³</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C (Aerosol only)</td>
<td>100 mg/m³</td>
<td>ACGIH</td>
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<tr>
<td>Distillates (petroleum), solvent-dewaxed heavy paraffinic</td>
<td>64742-65-0</td>
<td>TWA (Mist)</td>
<td>5 mg/m³</td>
<td>OSHA Z-1</td>
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<td></td>
<td>TWA (Inhalable fraction)</td>
<td>5 mg/m³</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>5 mg/m³</td>
<td>OSHA P0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (Mist)</td>
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<td>NIOSH REL</td>
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<td></td>
<td></td>
<td>ST (Mist)</td>
<td>10 mg/m³</td>
<td>NIOSH REL</td>
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<tr>
<td></td>
<td></td>
<td>TWA (Mist)</td>
<td>5 mg/m³</td>
<td>OSHA P0</td>
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Hazardous components without workplace control parameters

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</tr>
</thead>
<tbody>
<tr>
<td>carboxin</td>
<td>5234-68-4</td>
</tr>
</tbody>
</table>

**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**
- Use respirator when performing operations involving potential exposure to vapor of the product.
- Respirator with combination filter for vapor/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.
  - To protect against splashes from pouring:
  - Rubber or plastic boots
  - Rubber or plastic apron

**Hygiene measures**
- Handle in accordance with good industrial hygiene and safety practice.
- Ensure adequate ventilation, especially in confined areas.
- Wear suitable gloves and eye/face protection.
- Do not inhale aerosol.
- Avoid contact with skin, eyes and clothing.
- Do not eat, drink or smoke when using this product.
- Wash thoroughly after handling.
- Keep working clothes separately.
- Wash contaminated clothing before reuse.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- **Appearance**: liquid
- **Color**: tan
- **Odor**: slight
- **Odor Threshold**: No data available
- **pH**: 7 - 9
SAFETY DATA SHEET

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FUNGICIDE

Melting point/range : No data available
Boiling point/boiling range : 102 °C
Flash point : 105 °C
   Method: Tag closed cup
Evaporation rate : 0.11
   (Butyl acetate = 1)
Upper explosion limit : No data available
Lower explosion limit : No data available
Vapor pressure : No data available
Relative vapor density : No data available
Relative density : No data available
Density : 1.15 g/cm3 (20 °C)
Solubility(ies)
   Water solubility : dispersible
   Solubility in other solvents : No data available
Partition coefficient: n-octanol/water : No data available
Autoignition temperature : No data available
Decomposition temperature : No data available
Viscosity
   Viscosity, dynamic : No data available
   Viscosity, kinematic : No data available
Self-Accelerating decomposition temperature (SADT)
   Method: No information available.

SECTION 10. STABILITY AND REACTIVITY

Possibility of hazardous reactions : Hazardous polymerization does not occur.
Conditions to avoid : Heat.
Incompatible materials : Strong acids and strong bases
Hazardous decomposition products: Burning produces obnoxious and toxic fumes.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

**Product:**

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

- **Acute inhalation toxicity**
  - LC50 (Rat): > 0.74 mg/l
    - Exposure time: 4 h
    - Test atmosphere: dust/mist

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

**Ingredients:**

- **carboxin:**
  - **Acute oral toxicity**
    - LD50 (Rat, male): 2,588 mg/kg
  - **Acute inhalation toxicity**
    - LC50 (Rat, male and female): > 4.7 mg/l
      - Exposure time: 4 h
      - Assessment: The substance or mixture has no acute inhalation 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 (Rabbit, male and female): > 4,000 mg/kg

- **ethane-1,2-diol:**
  - **Acute oral toxicity**
    - LD50 (Rat, female): 4,700 mg/kg
  - **Acute dermal toxicity**
    - LD50 (Rabbit): 10,670 mg/kg

Skin corrosion/irritation

**Product:**

- Species: Rabbit
- Result: No skin irritation

**Ingredients:**

- **carboxin:**
  - Species: Rabbit
  - Result: No skin irritation

Serious eye damage/eye irritation

**Product:**
Species: Rabbit
Result: No eye irritation

**Ingredients:**
carboxin:
Species: Rabbit
Result: slight irritation
Assessment: No eye irritation

**Respiratory or skin sensitization**

**Product:**
Species: Guinea pig
Result: Did not cause sensitization on laboratory animals.

**Ingredients:**
carboxin:
Species: Guinea pig
Assessment: May cause sensitization by skin contact.
Method: Test de Magnusson-Kligmann
Result: positive
GLP: yes

**Germ cell mutagenicity**

**Product:**
Germ cell mutagenicity - negative

**Ingredients:**
carboxin:
Genotoxicity in vitro:
Test Type: Bacterial reverse mutation test
Species: Salmonella typhimurium
Result: negative

Test Type: Chromosome aberration test in vitro
Species: Chinese hamster ovary cells
Result: Negative without activation, positive with activation

Test Type: In Vitro mammalian Cell Gene Mutation Test
Species: Chinese hamster ovary cells
Result: negative

Test Type: Unscheduled DNA synthesis (UDS)
Species: rat hepatocytes
Result: positive

Genotoxicity in vivo:
Test Type: Mammalian bone marrow chromosome aberration test
Species: Sprague-Dawley rat bone marrow cells  
Result: negative

Test Type: Mammalian bone marrow chromosome aberration test  
Species: Sprague-Dawley rat bone marrow cells  
Result: negative

Test Type: Unscheduled DNA synthesis (UDS)  
Species: Male Sprague-Dawley rat liver hepatocyte cells  
Result: negative

Germ cell mutagenicity - Assessment : negative

Carcinogenicity

Product:
Carcinogenicity - Assessment : negative

Ingredients:
carboxin:
Species: Rat, (male)  
Application Route: Oral  
NOAEL: NOAEL (No observed adverse effect level): 0.82 mg/kg bw/day

Carcinogenicity - Assessment : negative

Distillates (petroleum), solvent-dewaxed heavy paraffinic:
Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

IARC
Group 1: Carcinogenic to humans

Distillates (petroleum), solvent-dewaxed heavy paraffinic 64742-65-0

OSHA
No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP
Known to be human carcinogen

Distillates (petroleum), solvent-dewaxed heavy paraffinic 64742-65-0
Reproductive toxicity

**Product:**
Reproductive toxicity - Assessment : negative

**Ingredients:**
carboxin:
Effects on fertility : General Toxicity Parent: NOAEL (No observed adverse effect level): 1 mg/kg bw/day
General Toxicity F1: No observed adverse effect level F1: 20 mg/kg bw/day
Early Embryonic Development: No observed adverse effect level F2: 10 mg/kg bw/day

Effects on fetal development : Species: Rat
General Toxicity Maternal: NOAEL (No observed adverse effect level): 10 mg/kg bw/day
Teratogenicity: NOAEL (No observed adverse effect level): 90 mg/kg bw/day

Species: Rabbit
General Toxicity Maternal: NOAEL (No observed adverse effect level): 75 mg/kg bw/day
Teratogenicity: NOAEL (No observed adverse effect level): 75 mg/kg bw/day

Reproductive toxicity - Assessment : negative

Repeated dose toxicity

**Ingredients:**
carboxin:
Species: Rat, male
NOAEL: 30 mg/kg
Application Route: Dermal
Exposure time: 28 d
GLP: yes
Target Organs: Kidney

Species: Rat, male
NOAEL: 5.5 mg/kg
Application Route: Oral
Exposure time: 90 d
GLP: yes
Target Organs: Kidney
SAFETY DATA SHEET

VITAVAX® 34 FF SEED TREATMENT
FUNGICIDE

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

**Ingredients:**
carboxin:
Toxicity to fish: LC50 (Oncorhynchus mykiss (rainbow trout)): 2.3 mg/l
Test Type: flow-through test
GLP: yes
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): > 57 mg/l
Test Type: flow-through test
GLP: yes
Exposure time: 48 h

Toxicity to algae: EC50 (Pseudokirchneriella subcapitata (green algae)): 0.48 mg/l
Test Type: static test
Exposure time: 5 d

Toxicity to fish (Chronic toxicity): NOEC (Cyprinus carpio (Carp)): 0.32 mg/l
Test Type: static test
Exposure time: 21 d
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity): NOEC (Daphnia magna (Water flea)): 0.32 mg/l
Exposure time: 17 d
GLP: yes

Persistence and degradability

**Ingredients:**
carboxin:
Biodegradability: Result: Not readily biodegradable.

Bioaccumulative potential

**Ingredients:**
carboxin:
Partition coefficient: n-octanol/water: log Pow: 2.3

ethane-1,2-diol:
Partition coefficient: n-octanol/water: log Pow: -1.3

Mobility in soil
No data available
Other adverse effects

Product:
Ozone-Depletion Potential: Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Ingredients:
carboxin:
Results of PBT and vPvB assessment: This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods
Waste from residues: Dispose of waste in accordance with environmental legislation. Waste must be classified and labeled prior to recycling or disposal. Pesticide wastes are toxic. Do not contaminate ponds, waterways or ditches with chemical or used container.

SECTION 14. TRANSPORT INFORMATION

International Regulation
UNRTDG
UN number: UN 3082
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (carboxin)
Class: 9
Packing group: III
Labels: 9

IATA-DGR
UN/ID No.: UN 3082
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (carboxin)
Class: 9
Packing group: III
Labels: Miscellaneous
Packing instruction (cargo aircraft): 964
Packing instruction (passenger aircraft) : 964

IMDG-Code
UN number : UN 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (carboxin)
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.

Domestic regulation

49 CFR
UN/ID/NA number : UN 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (carboxin)
Class : 9
Packing group : I I I
Labels : CLASS 9, 1 7 1
Marine pollutant : yes(carboxin)
Remarks : Only regulated if shipped in packages > 119 Gallons/450 Liters

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS-No.</th>
<th>Component RQ (lbs)</th>
<th>Component RQ (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol</td>
<td>107-21-1</td>
<td>5000</td>
<td>*</td>
</tr>
</tbody>
</table>

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

<table>
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<tr>
<th>Ingredients</th>
<th>CAS-No.</th>
<th>Component RQ (lbs)</th>
<th>Calculated product RQ (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethylene oxide</td>
<td>75-21-8</td>
<td>10</td>
<td>*</td>
</tr>
</tbody>
</table>

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 311/312 Hazards : Acute Health Hazard
SAFETY DATA SHEET

VITAVAX® 34 FF SEED TREATMENT
FUNGICIDE

No SARA Hazards

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 established by SARA Title III, Section 313:

- carboxin 5234-68-4 33.681 %
- ethane-1,2-diol 107-21-1 21.5 %

Clean Air Act
This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).
The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):
- ethane-1,2-diol 107-21-1 21.5 %
This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).
The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC’s (40 CFR 60.489):
- ethane-1,2-diol 107-21-1 21.5 %

Clean Water Act
This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.
This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.
This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

California Prop. 65 WARNING! This product contains a chemical known in the State of California to cause cancer.
- Distillates (petroleum), solvent-dewaxed heavy paraffinic 64742-65-0
- quartz (SiO2) (Fr = 100%) 14808-60-7
- ethylene oxide 75-21-8

TSCA list
No substances are subject to a Significant New Use Rule.
No substances are subject to TSCA 12(b) export notification requirements.

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.

**CAUTION**

Harmful if inhaled. Avoid breathing vapor or spray mist.

Do not apply to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate or by disposal of wastes.

This product may have effects on federally listed threatened or endangered species or their critical habitat in some counties. It is a violation of federal law to kill, harm or harass listed animal species without authorization. To limit the potential for such impacts when using this product, consult and follow the instructions provided in the EPA endangered Species bulletin for the County or Parish in which you are applying the seed. To determine whether your County or Parish has a bulletin, consult http://www.epa.gov/espp before each season’s use of this product.

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### SECTION 16. OTHER INFORMATION

**Full text of other abbreviations**

(Q)SAR - (Quantitative) Structure Activity Relationship; ASTM - American Society for the Testing of Materials; bw - Body weight; 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; 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; OECD - Organization for Economic Co-operation 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; UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative; 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
The information provided in this Material 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 / Z8

**Carechem24 International Worldwide Coverage**

**Emergency Phone Number**

<table>
<thead>
<tr>
<th>Region</th>
<th>Contact Details</th>
<th>Phone Number</th>
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<tbody>
<tr>
<td>Europe:</td>
<td>All European Countries</td>
<td>+44 (0) 1235 239 670</td>
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<tr>
<td>Asia Pacific:</td>
<td>East / South East Asia – Regional Number</td>
<td>+65 3158 1074</td>
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<td>+61 2801 44558</td>
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<td>Sri Lanka</td>
<td>+65 3158 1195</td>
<td></td>
</tr>
<tr>
<td>Emergency Phone Number</td>
<td>+65 3158 1200</td>
<td></td>
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</tbody>
</table>

**Middle East / Africa:**

<table>
<thead>
<tr>
<th>Country</th>
<th>Phone Number</th>
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<tbody>
<tr>
<td>Arabic speaking countries</td>
<td>+44 (0) 1235 239 671</td>
</tr>
<tr>
<td>South Africa</td>
<td>+27 21 300 2732</td>
</tr>
<tr>
<td>All other countries</td>
<td>+44 (0) 1235 239 670</td>
</tr>
</tbody>
</table>

**America**

<table>
<thead>
<tr>
<th>Country</th>
<th>Phone Number</th>
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<tbody>
<tr>
<td>United States of America and Canada</td>
<td>+1866 928 0789</td>
</tr>
<tr>
<td></td>
<td>+1 215 207 0061</td>
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**Latin America:**

<table>
<thead>
<tr>
<th>Country</th>
<th>Phone Number</th>
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<tbody>
<tr>
<td>Brazil</td>
<td>+55 11 3197 5891</td>
</tr>
<tr>
<td>Mexico</td>
<td>+52 555 004 8763</td>
</tr>
<tr>
<td>Chile</td>
<td>+56 225 829 336</td>
</tr>
<tr>
<td>All other countries</td>
<td>+44 (0) 1235 239 670</td>
</tr>
</tbody>
</table>