We create chemistry

Helaian Data Keselamatan
Safety data sheet

1. Pengenalan bahan kimia dan pembekal

Inveris G75

Kegunaan: produk pelindung tanaman, racun serangga

Syarikat:
BASF (Malaysia) Sdn Bhd
Lot 19.02 Level 19, 1 Powerhouse
No 1 Persiaran Bandar Utama
47800 Petaling Jaya
Selangor D.E, MALAYSIA
Nombor Telefon: +60 3 7612 1888
Nombor Telefax: +60 3 7612 1777

Maklumat kecemasan:
Nombor Kecemasan Kebangsaan
+603 7612 1999
Nombor Kecemasan Antarabangsa:
Nombor Telefon: +49 180 2273-112

2. Pengenalan Bahaya

Pengelasan bahan dan campuran:
Toks. Akut 4 (oral)
Toks. Akut 3 (Penyedutan - kabus)
Kreng. Kulit 2
STOT RE (Sistem saraf pusat) 2
Akuatik Akut 1
Akuatik Kronik 1

Bagi pengelasan yang tidak ditulis dengan penuh dalam bahagian ini, teks lengkap boleh didapati di bahagian 16.

Unsur label dan pernyataan berjaga-jaga:

Piktogram:

Kata Isyarat:
bahaya

Pernyataan Bahaya:

H315	Menyebabkan kerengsaan kulit.
H331	Toksik jika tersedut.
H302	Memudaratkan jika tertelan.
H373	Boleh menyebabkan kerosakan pada organ (Sistem saraf pusat) melalui pendedahan secara berpanjangan atau berulang.
H400	Sangat toksik kepada hidupan akuatik.
H410	Sangat toksik kepada hidupan akuatik dengan kesan yang berpanjangan.
EUH401	Untuk mengelakkan risiko kepada kesihatan manusia dan alam sekitar, patuhi arahan semasa menggunakan bahan.

Pernyataan berjaga-jaga:

P101	Jika nasihat perubatan diperlukan, dapatkan bekas atau label produk.
P102	Jauhkan daripada kanak-kanak.
P103	Baca label sebelum menggunakan produk.

Pernyataan Berjaga-jaga (Pencegahan):

P271	Gunakan hanya di luar bangunan atau di dalam kawasan yang dialihudarakan dengan baik.
P280	Pakai sarung tangan perlindungan.
P260	Jangan bernafaskan habuk/gas/kabut/wap.
P270	Jangan makan, minum atau merokok semasa menggunakan produk ini.
P264	Basuh bahagian badan yang tercemar dengan sepenuhnya selepas pengendalian.

Pernyataan Berjaga-jaga (Tindak Balas):

P304 + P340	JIKA TERSEDUT: Pindahkan mangsa ke kawasan berudara segar dan pastikan mangsa selesa bernafas.
P311	Hubungi PUSAT RACUN atau pakar perubatan.
	JIKA TERKENA KULIT: Basuh dengan sabun dan air yang banyak.
P330	Bilas mulut.
P391	Pungut tumpahan.
P362 + P364	Tanggalkan pakaian yang tercemar dan basuh sebelum menggunakannya semula.

Pernyataan Berjaga-jaga (Penyimpanan):

P403 + P233	Simpan di tempat yang dialihudarakan dengan baik. Pastikan bekas ditutup dengan ketat.
P405	Simpan di tempat berkunci.

Pernyataan Berjaga-jaga (Pelupusan):

P501	Buangkan kandungan dan berkas ke tempat penggumpulan bahan sisa merbahaya atau khas.

Bahaya lain yang tidak menyebabkan pengelasan:
Lihat seksyen 12 - Keputusan PBT dan Penilaian vPvB
Jika berkenaan, maklumat yang diberikan dalam bahagian ini tentang bahaya lain tidak menyebabkan pengelasan tetapi mungkin menyumbang kepada bahaya bahan atau campuran secara keseluruhan.
Produk tidak mengandungi bahan melebihi had undang-undang yang termasuk di dalam senarai yang disediakan mengikut Artikel 59(1) Peraturan (EC) No. 1907/2006 kerana mengandungi ciri-ciri gangguan endokrin atau telah dikenalpasti untuk mengandungi ciri-ciri gangguan endokrin mengikut kriteria yang ditetapkan dalam Peraturan Wakilan Suruhanjaya (EU) 2017/2100 atau Peraturan Suruhanjaya (EU) 2018/605.

3. Komposisi dan Maklumat Mengenai Ramuan Bahan Kimia

Keadaan kimia

produk pelindung tanaman, racun serangga

Ramuan berbahaya

Cyclopropanecarboxylic acid, [(3S,4R,4aR,6S,6aS,12R,12aS,12bS)-3-[(cyclopropylcarbonyl)oxy]-1,3,4,4a,5,6,6a,12,12a,12b-decahydro-6,12-dihydroxy-4,6a,12b-trimethyl-11-oxo-9-(3-pyridinyl)-2H,11H-naphtho[2,1-b]pyrano[3,4-e]pyran-4-yl]methyl ester

Kandungan (berat/berat): 4.85 %	Akuatik Kronik 1
Nombor CAS: 915972-17-7	Faktor-M kronik: 10000

Abamectin technical II

Kandungan (berat/berat): 2.47 %	Toks. Akut 1 (Penyedutan - habuk)
Nombor CAS: 71751-41-2	Toks. Akut 2 (oral)
	Toks. Akut 3 (dermis)
	Pemb. 2 (unborn child)
	STOT RE (Sistem saraf pusat) 1
	Akuatik Akut 1
	Akuatik Kronik 1
	Faktor-M akut: 10000
	Faktor-M kronik: 10000

Poly(oxy-1,2-ethanediyl), .alpha.-phenyl-.omega.-hydroxy-, styrenated

Kandungan (berat/berat): < 10 %	Akuatik Kronik 2
Nombor CAS: 104376-75-2	

Octanamide, N,N-dimethyl-

Kandungan (berat/berat): < 5 % Kks./Kreng. Kulit 2
Nombor CAS: 1118-92-9 Kros./Kreng. Mata 1
STOT SE 3 (irr. to respiratory syst.)

Decanamide, N,N-dimethyl-
Kandungan (berat/berat): < 5 % Kks./Kreng. Kulit 2
Nombor CAS: 14433-76-2 Kros./Kreng. Mata 2
STOT SE 3 (irr. to respiratory syst.)
Akuatik Kronik 3

propan-1,2-diol
Kandungan (berat/berat): < 35 %
Nombor CAS: 57-55-6

Bagi pengelasan yang tidak ditulis dengan penuh dalam bahagian ini, teks lengkap boleh didapati di bahagian 16.

4. Langkah-Langkah Pertolongan Cemas

Nasihat am:
Kakitangan bantuan kecemasan hendaklah memberikan perhatian kepada keselamatan mereka sendiri. Jika pesakit mungkin akan tidak sedarkan diri, pastikan pesakit dalam keadaan mengiring (kedudukan pemulihan) dan pindahkan pesakit. Segera tanggalkan pakaian yang tercemar.

Jika tersedut:
Tenangkan pesakit, alihkan ke tempat berudara bersih, dapatkan rawatan perubatan.

Apabila terkena kulit:
Segera basuh bersih-bersih dengan sabun dan air, dapatkan rawatan perubatan.

Apabila terkena mata:
basuh mata yang terkena bahan selama sekurang-kurangnya 15 minit dibawah air yang mengalir dengan kelopak mata dibuka, rujuk kepada pakar mata.

Apabila tertelan:
Segera berkumur, kemudian minum 200-300 ml air, dapatkan rawatan perubatan.

Nota kepada doktor:
Gejala: Maklumat, iaitu maklumat tambahan mengenai simptom dan kesan boleh termasuk di dalam fasa palabelan GHS yang tersedia ada dalam Seksyen 2 dan di dalam penaksiran Toksikologi yang tersedia ada dalam Seksyen 11., Simptom dan/atau kesan tidak diketahui setakat ini
Nota kepada doktor:
Bahaya: Maklumat, iaitu maklumat tambahan mengenai simptom dan kesan boleh termasuk di dalam fasa palabelan GHS yang tersedia ada dalam Seksyen 2 dan di dalam penaksiran Toksikologi yang tersedia ada dalam Seksyen 11. Simptom dan/atau kesan tidak diketahui setakat ini
Rawatan: Rawat mengikut gejala (nyahcemar, fungsi utama), tiada penawar khusus diketahui.

5. Langkah-Langkah Pemadaman Kebakaran

Bahan pemadam yang sesuai:
semburan air, serbuk kering, busa, karbon dioksida

Alat memadam yang tidak sesuai untuk tujuan keselamatan:
pancutan air

Bahaya tertentu:
karbon monoksida, karbon dioksida, nitrogen oksida
Bahan/kumpulan bahan yang dinyatakan boleh dibebaskan jika berlaku kebakaran.

Peralatan perlindungan khusus:
Gunakan alat pernafasan serba lengkap dan pakaian pelindung kimia.

Maklumat lanjut:
Pastikan bekas sejuk dengan menyembur air pada bekas jika terdedah kepada kebakaran. Dalam hal kebakaran dan/atau letupan jangan menyedut wasap. Kumpul air pemadam api yang tercemar secara berasingan, jangan biarkan ia mengalir ke dalam sistem pembetung atau efluen. Lupuskan sisa kebakaran dan air pemadam api yang tercemar menurut peraturan rasmi.

6. Langkah-Langkah Pelepasan Tidak Sengaja

Perlindungan diri, kelengkapan pelindung dan tatacara kecemasan:
Jangan bernafaskan wap/semburanGunakan pakaian pelindung diri.Elakkan dari bersentuhan dengan kulit, mata dan pakaian.

Langkah berjaga-jaga untuk alam sekitar:
Jangan lepaskan ke dalam subtanah/tanah. Jangan lepaskan ke dalam parit/air permukaan/air tanah.

Kaedah pembersihan atau penyerapan:
Bagi sejumlah kecil: Kutip dengan bahan penyerap yang sesuai (contohnya pasir, habuk gergaji, pengikat serba guna, kieselguhr).
Bagi sejumlah besar: Bina benteng tumpahan. Pam produk.
Lupuskan bahan yang diserap mengikut peraturan. Kumpul sisa ke dalam bekas yang sesuai, yang boleh dilabel dan ditutup ketat. Basuh bersih-bersih lantai dan objek yang tercemar dengan air dan bahan pencuci, patuhi peraturan alam sekitar. Pakai peralatan pelindung yang sesuai.

7. Pengendalian dan Penyimpanan

Pengendalian

Tiada langkah khusus diperlukan dengan syarat produk disimpan dan digunakan dengan betul. Pastikan pengalihudaraan menyeluruh di kawasan simpanan dan di tempat kerja. Jangan makan, minum atau merokok apabila menggunakannya. Tangan dan/atau muka hendaklah dibasuh sebelum rehat dan setelah tamat waktu bekerja. Tanggalkan pakaian yang tercemar dan alat pelindung sebelum memasuki tempat makan.

Perlindungan terhadap kebakaran dan letupan:
Wap boleh membentuk campuran boleh tercucuh dengan udara. Elakkan cas elektrostatik - jauhkan dari sumber pencucuhan - pemadam api hendaklah mudah digunakan.

Penyimpanan

Asingkan daripada makanan dan makanan haiwan.
Maklumat lanjut tentang keadaan penyimpanan: Jauhkan daripada panas. Lindungi daripada pancaran terus cahaya matahari.

Kestabilan penyimpanan:
Tempoh penyimpanan: 36 bulan

8. Kawalan pendedahan dan perlindungan diri

Komponen dengan parameter kawalan tempat kerja

Cyclopropanecarboxylic acid, [(3S,4R,4aR,6S,6aS,12R,12aS,12bS)-3-[(cyclopropylcarbonyl)oxy]-1,3,4,4a,5,6,6a,12,12a,12b-decahydro-6,12-dihydroxy-4,6a,12b-trimethyl-11-oxo-9-(3-pyridinyl)-2H,11H-naphtho[2,1-b]pyrano[3,4-e]pyran-4-yl]methyl ester, 915972-17-7;

Peralatan perlindungan peribadi

Perlindungan pernafasan:
Perlindungan pernafasan yang sesuai bagi kepekatan yang rendah atau kesan jangka pendek: Penapis gabungan bagi gas/wap sebatian organik, tak organik, asid tak organik, alkali dan zarah toksik (contohnya EN 14387 Jenis ABEK-P3)

Perlindungan tangan:
Sarung tangan kalis kimia yang sesuai (EN ISO 374-1) jika terkena secara langsung yang berpanjangan (Disyorkan: Indeks pelindung 6, sama dengan masa penelapan > 480 minit mengikut EN ISO 374-1): Misalnya getah nitril (0.4 mm), getah kloroprena (0.5 mm), polivinilklorida (0.7 mm) dan lainnya.

Perlindungan mata:
Kaca mata keselamatan dengan pelindung sisi (gogal berbingkai) (contohnya EN 166)

Perlindungan badan:
Perlindungan badan mesti dipilih bergantung kepada aktiviti dan pendedahan, contohnya apron, kasut perlindungan, pakaian perlindungan bahan kimia (Berdasarkan DIN-EN 465)

Langkah kebersihan dan keselamatan am:
Penyataan tentang kelengkapan pelindung diri dalam arahan penggunaan terpakai untuk penggunaan agen pelindung pertanian bagi pembungkusan terakhir. Disyorkan memakai pakaian kerja yang tertutup. Simpan pakaian kerja secara berasingan. Jauhkan daripada makanan, minuman dan barang makanan haiwan.

9. Sifat Fizikal dan Kimia

Bentuk: cecair

Warna:	kuning
Bau:	tidak berbau
Ambang bau:	Tidak ditentukan kerana toksik melalui penyedutan.
nilai pH:	dianggarkan 6 - 8 (20 °C)
takat lebur:	< 0 °C
takat didih:	dianggarkan 188 °C
Takat kilat:	106 °C
Tahap penyejatan:	Tidak boleh digunakan
Kemudahbakaran (pepejal/gas):	Tidak boleh digunakan
Had letupan bawah:	Hasil pengalaman kami dengan produk ini dan pengetahuan kami mengenai komposisinya kami menjangka tidak terdapat bahaya selagi produk ini digunakan dengan cara yang sesuai dan menurut penggunaan yang dicadangkan.
Had letupan atas:	Hasil pengalaman kami dengan produk ini dan pengetahuan kami mengenai komposisinya kami menjangka tidak terdapat bahaya selagi produk ini digunakan dengan cara yang sesuai dan menurut penggunaan yang dicadangkan.
Suhu pencucuhan:	391 °C
Penguraian terma:	160 °C , 60 kJ/kg 360 °C , 100 kJ/kg Bahan tidak boleh mengurai sendiri menurut peraturan-peraturan pengangkutan UN, kelas 4.1
Bahaya letupan:	tidak mudah meletup
Sifat yang menggalakkan kebakaran:	tidak merebakkan api
Tekanan Wap:	dianggarkan 0.1 hPa (20 °C)
Kepekatan:	dianggarkan 1.01 - 1.02 g/cm3 (20 °C)
Ketumpatan wap relatif (udara):	Tidak boleh digunakan
Keterlarutan dalam air:	mudah terserak
Pekali petakan n-oktanol/air (log Pow):	Tidak boleh digunakan

Kelikatan, dinamik:	dianggarkan 180 mPa.s (20 °C)

Maklumat lain:
Jika perlu, maklumat tentang parameter fizikal and kimia ada dinyatakan didalam bahagian ini.

10. Kestabilan dan Kereaktifan

Keadaan yang perlu dielakkan:
Lihat MSDS bahagian 7 - Pengendalian dan Penyimpanan.

Penguraian terma:	160 °C, 60 kJ/kg
Penguraian terma:	360 °C, 100 kJ/kg
Penguraian terma:	Bahan tidak boleh mengurai sendiri menurut peraturan-peraturan pengangkutan UN, kelas 4.1

Bahan yang perlu dielakkan:
asid kuat, bes kuat, agen pengoksida yang kuat

Tindak balas berbahaya:
Tiada produk penguraian yang berbahaya jika disimpan dan dikendalikan seperti yang ditetapkan/dinyatakan.

Bahan penguraian berbahaya:
Tiada produk penguraian yang berbahaya jika disimpan dan dikendalikan seperti yang ditetapkan/dinyatakan.

Kereaktifan:
Tiada produk penguraian yang berbahaya jika disimpan dan dikendalikan seperti yang ditetapkan/dinyatakan.

Kestabilan kimia:
Produk adalah stabil jika disimpan dan dikendalikan sebagaimana

11. Maklumat Toksikologi

Ketoksikan akut

Penilaian ketoksikan akut:
Ketoksikan yang jelas selepas penyedutan jangka-pendek. Ketoksikan sederhana selepas kali pertama tertelan. Tidak toksik selepas sekali terkena kulit

Data eksperimen/dikira:
LD50 tikus (melalui mulut): > 500 - < 2,000 mg/kg

LC50 tikus (melalui penyedutan): > 0.543 mg/l 4 h
Tiada kematian diperhatikan Aerosol dengan zarah boleh sedut telah diuji.

LD50 tikus (dermal): > 5,000 mg/kg

Tiada kematian diperhatikan

Kerengsaan

Penilaian kesan merengsa:
Terkena kulit boleh menyebabkan kerengsaan. Tidak merengsakan mata.

Data eksperimen/dikira:
Kakisan/Kerengsaan kulit arnab: Merengsa

Kerosakkan/kerengsaan mata yang serius arnab: tidak merengsa

Pemekaan pernafasan/kulit

Penilaian pemekaan:
Tiada kesan pemekaan

Data eksperimen/dikira:
Ujian Buehler marmut: Tidak memeka

Kemutagenan sel germa

Penilaian kemutagenan:
Ujian kemutagenan membuktikan tiada potensi genotoksik . Produk belum diuji. Penyataan diambil daripada ciri setiap komponen.

Kekarsinogenan

Penilaian kekarsinogenan:
Produk belum diuji. Penyataan diambil daripada ciri setiap komponen.

Maklumat tentang : Cyclopropanecarboxylic acid, [(3S,4R,4aR,6S,6aS,12R,12aS,12bS)-3-[(cyclopropylcarbonyl)oxy]-1,3,4,4a,5,6,6a,12,12a,12b-decahydro-6,12-dihydroxy-4,6a,12b-trimethyl-11-oxo-9-(3-pyridinyl)-2H,11H-naphtho[2,1-b]pyrano[3,4-e]pyran-4-yl]methyl ester
Penilaian kekarsinogenan:
Dalam kajian haiwan jangka panjang yang mana bahan telah diberikan dos tinggi melalui makanan, kesan karsinogen diperhatikan. Kesan disebabkan oleh mekanisme khusus haiwan yang tidak memberikan kesan kepada manusia.

Ketoksikan pembiakan

Penilaian ketoksikan pembiakan:
Keputusan kajian haiwan tidak menunjukkan kesan gangguan kesuburan. Produk belum diuji. Penyataan diambil daripada ciri setiap komponen.

Ketoksikan perkembangan

Penilaian keteratogenan:
Produk belum diuji. Penyataan diambil daripada ciri setiap komponen.

Maklumat tentang : Abamectin technical
Penilaian keteratogenan:
Petunjuk toksik yang berkembang/kesan teratogen dilihat dalam ujian ke

Maklumat tentang : Octanamide, N,N-dimethyl-
Penilaian keteratogenan:
Bahan tidak menyebabkan kecacatan dalam kajian terhadap haiwan; walau Produk belum diuji.
Penyataan diambil daripada bahan/produk yang mempunyai struktur dan komposisi yang sama.

Maklumat tentang : Decanamide, N,N-dimethyl-
Penilaian keteratogenan:
Bahan tidak menyebabkan kecacatan dalam kajian terhadap haiwan; walau Produk belum diuji.
Penyataan diambil daripada bahan/produk yang mempunyai struktur dan komposisi yang sama.

Ketoksikan khusus organ sasaran (sekali pendedahan):

Penilaian sekali STOT:
Berdasarkan maklumat yang ada, ketoksikan organ sasaran yang khusus adalah tidak dijangka selepas sekali pendedahan.

Catatan: Produk belum diuji. Penyataan diambil daripada ciri setiap komponen.

Ketoksikan dos berulang dan Ketoksikan organ sasaran tertentu (pendedahan berulang)

Penilaian ketoksikan dos berulang:
Produk belum diuji. Penyataan diambil daripada ciri setiap komponen.

Maklumat tentang : Cyclopropanecarboxylic acid, [(3S,4R,4aR,6S,6aS,12R,12aS,12bS)-3-[(cyclopropylcarbonyl)oxy]-1,3,4,4a,5,6,6a,12,12a,12b-decahydro-6,12-dihydroxy-4,6a,12b-trimethyl-11-oxo-9-(3-pyridinyl)-2H,11H-naphtho[2,1-b]pyrano[3,4-e]pyran-4-yl]methyl ester
Penilaian ketoksikan dos berulang:
Pendedahan berulang kepada kuantiti yang besar mungkin membawa kesan kepada organ tertentu.
Berdasarkan data yang ada, kriteria pengelasan tidak dipenuhi.

Maklumat tentang : Abamectin technical II
Penilaian ketoksikan dos berulang:
Pendedahan secara berulang melalui penyedutan kepada dos yang rendah boleh menjejaskan organ-organ tertentu. Pendedahan secara oral yang berulang-ulang mungkin secara sedikit memberi kesan kepada organ tertentu.

Maklumat tentang : Octanamide, N,N-dimethyl-
Penilaian ketoksikan dos berulang:
Produk belum diuji. Penyataan diambil daripada bahan/produk yang mempunyai struktur dan komposisi yang sama. Selepas pemberian yang berulang, kesan yang nyata ialah kerengsaan

Maklumat tentang : Decanamide, N,N-dimethyl-
Penilaian ketoksikan dos berulang:
Produk belum diuji. Penyataan diambil daripada bahan/produk yang mempunyai struktur dan komposisi yang sama. Selepas pemberian yang berulang, kesan yang nyata ialah kerengsaan
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Bahaya penyedutan

Tidak boleh digunakan

Maklumat lain yang berkaitan dengan ketoksikan

Penyalahgunaan boleh memudaratkan kesihatan.

12. Maklumat Ekologi

Keekotoksikan

Penilaian ketoksikan akuatik:
Sangat toksik kepada hidupan akuatik dengan kesan yang berpanjangan.

Ketoksikan kepada ikan:
LC50 (96 h) 0.083 mg/l, Oncorhynchus mykiss

Invertebrat air:
EC50 (48 h) 0.00181 mg/l, Daphnia magna

Tumbuhan akuatik:
EC50 (72 h) 4.13 mg/l, Pseudokirchneriella subcapitata

Maklumat tentang : Abamectin technical II
Ketoksikan kronik kepada ikan:
Tiada kesan kepekatan yang diperhatikan (28 hari) 0.00052 mg/l, Oncorhynchus mykiss
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Maklumat tentang : Cyclopropanecarboxylic acid, [(3S,4R,4aR,6S,6aS,12R,12aS,12bS)-3-[(cyclopropylcarbonyl)oxy]-1,3,4,4a,5,6,6a,12,12a,12b-decahydro-6,12-dihydroxy-4,6a,12b-trimethyl-11-oxo-9-(3-pyridinyl)-2H,11H-naphtho[2,1-b]pyrano[3,4-e]pyran-4-yl]methyl ester
Ketoksikan kronik kepada invertebrata akuatik:
Tiada kesan kepekatan yang diperhatikan (28 hari), 0.000004 mg/l, Mysidopsis bahia

Maklumat tentang : Abamectin technical II
Ketoksikan kronik kepada invertebrata akuatik:
Tiada kesan kepekatan yang diperhatikan (28 hari), 0,0000035 mg/l, Mysidopsis bahia
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Mobiliti

Penilaian pengangkutan di antara bahagian di persekitaran:
Produk belum diuji. Penyataan diambil daripada ciri setiap komponen.

Maklumat tentang : Cyclopropanecarboxylic acid, [(3S,4R,4aR,6S,6aS,12R,12aS,12bS)-3-[(cyclopropylcarbonyl)oxy]-1,3,4,4a,5,6,6a,12,12a,12b-decahydro-6,12-dihydroxy-4,6a,12b-trimethyl-11-oxo-9-(3-pyridinyl)-2H,11H-naphtho[2,1-b]pyrano[3,4-e]pyran-4-yl]methyl ester
Penilaian pengangkutan di antara bahagian di persekitaran:
Diikuti dengan pendedahan kepada tanah, penjerapan ke atas zarah tanah

Maklumat tentang : Abamectin technical II
Penilaian pengangkutan di antara bahagian di persekitaran:
Diikuti dengan pendedahan kepada tanah, penjerapan ke atas zarah tanah
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Keterusan dan boleh keterdegradasikan

Penilaian biodegradasi dan penyingkiran (H2O):
Produk belum diuji. Penyataan diambil daripada ciri setiap komponen.

Maklumat tentang : Cyclopropanecarboxylic acid, [(3S,4R,4aR,6S,6aS,12R,12aS,12bS)-3-[(cyclopropylcarbonyl)oxy]-1,3,4,4a,5,6,6a,12,12a,12b-decahydro-6,12-dihydroxy-4,6a,12b-trimethyl-11-oxo-9-(3-pyridinyl)-2H,11H-naphtho[2,1-b]pyrano[3,4-e]pyran-4-yl]methyl ester
Penilaian biodegradasi dan penyingkiran (H2O):
Tidak mudah terbiodegradasikan (oleh kriteria OECD).

Maklumat tentang : Abamectin technical II
Penilaian biodegradasi dan penyingkiran (H2O):
Tidak mudah terbiodegradasikan (oleh kriteria OECD).

Potensi Biotumpukan

Penilaian potensi bioakumilasi:
Produk belum diuji. Penyataan diambil daripada ciri setiap komponen.

Maklumat tentang : Abamectin technical II
Penilaian potensi bioakumilasi:
Tidak dijangka terakumulasi dalam organisma.

Maklumat tentang : Cyclopropanecarboxylic acid, [(3S,4R,4aR,6S,6aS,12R,12aS,12bS)-3-[(cyclopropylcarbonyl)oxy]-1,3,4,4a,5,6,6a,12,12a,12b-decahydro-6,12-dihydroxy-4,6a,12b-trimethyl-11-oxo-9-(3-pyridinyl)-2H,11H-naphtho[2,1-b]pyrano[3,4-e]pyran-4-yl]methyl ester
Potensi Biotumpukan:
Faktor Kebiopekatan: 0.06
Tidak terkumpul dalam organisma.

Maklumat tambahan

Nasihat ekotoksikologi lain:
Jangan lepaskan produk ke persekitaran tanpa kawalan.

13. Maklumat Pelupusan

Mesti dihantar ke loji pembakaran yang sesuai, mematuhi peraturan

Pembungkusan tercemar:
Bungkusan yang tercemar hendaklah dikosongkan sejauh yang boleh dan dilupuskan dengan cara yang sama melupuskan bahan/produk.

14. Maklumat Pengangkutan

Pengangkutan domestik:
Kelas bahaya: 9

Kumpulan pembungkusan:	III
Nombor-ID:	UN 3082
Label Bahaya:	9, EHSM
Nama penghantaran yang betul:	BAHAN YANG MEMBAHAYAKAN ALAM SEKITAR, CECAIR, N.O.S (mengandungi ABAMECTIN, AFIDOPYROPEN)

Maklumat lanjut
Kod Hazchem:3Z
Nombor IERG:47

Pengangkutan laut
IMDG

Kelas bahaya:	9
Kumpulan pembungkusan:	III
Nombor-ID:	UN 3082
Label Bahaya:	9, EHSM
Bahan pencemar laut:	YA
Nama penghantaran yang betul:	BAHAN YANG MEMBAHAYAKAN ALAM SEKITAR, CECAIR, N.O.S (mengandungi ABAMECTIN, AFIDOPYROPEN)

Pengangkutan udara
IATA/ICAO

Kelas bahaya:	9
Kumpulan pembungkusan:	III
Nombor-ID:	UN 3082
Label Bahaya:	9, EHSM
Nama penghantaran yang betul:	BAHAN YANG MEMBAHAYAKAN ALAM SEKITAR, CECAIR, N.O.S (mengandungi ABAMECTIN, AFIDOPYROPEN)

Pengangkutan secara pukal menurut Lampiran II MARPOL dan IBC

Peraturan:	Tidak dinilai
Penghantaran yang diluluskan:	Tidak dinilai
Nama pencemaran:	Tidak dinilai
Kategori pencemaran:	Tidak dinilai
Jenis Kapal:	Tidak dinilai

Maklumat lanjut
Peraturan-peraturan berikut digunapakai untuk produk yang mengandungi kuantiti bersih 5L atau kurang daripada itu
ADR, RID, AND: Peraturan Khas 375;
JT/T617.3;
IMDG: 2.10.2.7;
IATA: A197;
TDG: Peraturan Khas 99(2);
49CFR: §171.4 (c) (2).

15. Maklumat Pengawalseliaan

Peraturan-Peraturan Keselamatan dan Kesihatan Pekerjaan (Pengelasan, Pelabelan dan Helaian Data Keselamatan Bahan kimia Berbahaya) 2013
Akta OSHA 1994 dan peraturan berkaitan
Akta Kualiti Alam Sekeliling 1974

Maklumat tentang peraturan-peraturan tidak meliputi kesemuanya. Peraturan-peraturan lain mungkin dikenakan kepada bahan ini.

Peraturan lain
Untuk mengelakkan risiko kepada manusia dan persekitaran, patuhi arahan penggunaan.

16. Maklumat lain

Tarikh Penyediaan / Tarikh Penyemakan: 29.01.2024

Sumber Maklumat dan Rujukan :
SDS ini disediakan dengan menggunakan data dan maklumat tersimpan di dalam sistem berasaskan IT dalaman kami dan dibekalkan oleh pembekal perkhidmatan syarikat kami.

Singkatan Petunjuk:
ATE - Anggaran Ketoksikan Akut
GHS - Sistem Terharmoni Global
IATA / ICAO - Persatuan Pengangkutan Udara Antarabangsa / Organisasi Penerbangan Awam Antarabangsa
IBC - Kontena Pukal Pertengahan
IMDG - Barangan Merbahaya Kelautan Antarabangsa
LC - Kepekatan Maut
LD - Dos Maut
OECD - Organisasi Untuk Kerjasama dan Pembangunan Ekonomi
OEL - Had Pendedahan Pekerjaan
OSHA - Akta Keselamatan dan Kesihatan Pekerjaan
STOT - Ketoksikan Organ Sasaran Khusus

Teks penuh pengelasan, simbol bahaya dan pernyataan bahaya, jika dinyatakan dalam seksyen 2 atau 3:

Bhn. Ltp. T. Stab.	Bahan letup tidak stabil
Bhn. Ltp. 1.1	Bahan letup divisyen 1.1
Bhn. Ltp. 1.2	Bahan letup divisyen 1.2
Bhn. Ltp. 1.3	Bahan letup divisyen 1.3
Bhn. Ltp. 1.4	Bahan letup divisyen 1.4
Bhn. Ltp. 1.5	Bahan letup divisyen 1.5
Bhn. Ltp. 1.6	Bahan letup divisyen 1.6
Gas M. Bkr 1	Gas mudah terbakar kategori 1
Gas M. Bkr 2	Gas mudah terbakar kategori 2
Aerosol M. Bkr1	Aerosol mudah terbakar kategori 1
Aerosol M. Bkr 2	Aerosol mudah terbakar kategori 2
Cec. M. Bkr 1	Cecair mudah terbakar kategori 1

Cec. M. Bkr 2	Cecair mudah terbakar kategori 2
Cec. M. Bkr 3	Cecair mudah terbakar kategori 3
Pep. M. Bkr 1	Pepejal mudah terbakar kategori 1
Pep. M. Bkr 2	Pepejal mudah terbakar kategori 2
Gas Oks. 1	Gas mengoksida kategori 1
Cec. Oks. 1	Cecair mengoksida kategori 1
Cec. Oks. 2	Cecair mengoksida kategori 2
Cec. Oks. 3	Cecair mengoksida kategori 3
Pep. Oks. 1	Pepejal mengoksida kategori 1
Pep. Oks. 2	Pepejal mengoksida kategori 2
Pep. Oks. 3	Pepejal mengoksida kategori 3
Gas Tkn.	Gas di bawah tekanan
Swareak. A	Bahan kimia swareaktif jenis A
Swareak. B	Bahan kimia swareaktif jenis B
Swareak. CD	Bahan kimia swareaktif jenis C dan D
Swareak. EF	Bahan kimia swareaktif jenis E dan F
Swareak. G	Bahan kimia swareaktif jenis G
Cec. Pir. 1	Cecair piroforik kategori 1
Pep. Pir. 1	Pepejal piroforik kategori 1
Swapanas. 1	Bahan kimia swapanasan kategori 1
Swapanas. 2	Bahan kimia swapanasan kategori 2
Tdk. Bls. Air 1	Bahan kimia yang, jika terkena air, membebaskan gas mudah terbakar kategori 1
Tdk. Bls. Air 2	Bahan kimia yang, jika terkena air, membebaskan gas mudah terbakar kategori 2
Tdk. Bls. Air 3	Bahan kimia yang, jika terkena air, membebaskan gas mudah terbakar kategori 3
Peroks. Org. A	Peroksida organik jenis A
Peroks. Org. B	Peroksida organik jenis B
Peroks. Org. CD	Peroksida organik jenis C and D
Peroks. Org. EF	Peroksida organik jenis E and F
Peroks. Org. G	Peroksida organik jenis G
Kakis. Log. 1	Mengakis logam kategori 1
Toks. Akut 1	Ketoksikan akut kategori 1
Toks. Akut 2	Ketoksikan akut kategori 2
Toks. Akut 3	Ketoksikan akut kategori 3
Toks. Akut 4	Ketoksikan akut kategori 4
Kks. Kulit 1A	Kakisan atau kerengsaan kulit kategori 1A
Kks. Kulit 1B	Kakisan atau kerengsaan kulit kategori 1B
Kks. Kulit 1C	Kakisan atau kerengsaan kulit kategori 1C
Kreng. Kulit 2	Kakisan atau kerengsaan kulit kategori 2
Kros. Mata 1	Kerosakan mata atau kerengsaan mata yang serius kategori 1
Kreng. Mata 2	Kerosakan mata atau kerengsaan mata yang serius kategori 2
Pem. Naf. 1	Pemekaan pernafasan kategori 1
Pem. Kulit 1	Pemekaan kulit kategori 1
Muta. 1A	Kemutagenan sel germa kategori 1A
Muta. 1B	Kemutagenan sel germa kategori 1B
Muta. 2	Kemutagenan sel germa kategori 2
Kars. 1A	Kekarsinogenan kategori 1A
Kars. 1B	Kekarsinogenan kategori 1B
Kars. 2	Kekarsinogenan kategori 2
Pemb. 1A	Ketoksikan pembiakan kategori 1A
Pemb. 1B	Ketoksikan pembiakan kategori 1B
Pemb. 2	Ketoksikan pembiakan kategori 2

Laktasi	Kesan ke atas atau melalui penyusuan
STOT SE 1	Ketoksikan organ sasaran khusus - pendedahan tunggal kategori 1
STOT SE 2	Ketoksikan organ sasaran khusus - pendedahan tunggal kategori 2
STOT SE 3	Ketoksikan organ sasaran khusus - pendedahan tunggal kategori 3
STOT RE 1	Ketoksikan organ sasaran khusus - pendedahan berulang kategori 1
STOT RE 2	Ketoksikan organ sasaran khusus - pendedahan berulang kategori 2
Bhy. Asp.	Bahaya aspirasi kategori 1
Akuatik Akut 1	Berbahaya kepada persekitaran akuatik – bahaya akut kategori 1
Akuatik Kronik 1	Berbahaya kepada persekitaran akuatik – bahaya kronik kategori 1
Akuatik Kronik 2	Berbahaya kepada persekitaran akuatik – bahaya kronik kategori 2
Akuatik Kronik 3	Berbahaya kepada persekitaran akuatik – bahaya kronik kategori 3
Akuatik Kronik 4	Berbahaya kepada persekitaran akuatik – bahaya kronik kategori 4
Ozon	Berbahaya bagi lapisan ozon kategori 1

Garis menegak pada margin sebelah kiri tangan menunjukkan pindaan dari versi sebelumnya.

Data yang terdapat dalam risalah data keselamatan ini adalah berdasarkan pengetahuan dan pengalaman kami, dan menerangkan tentang produk yang berkaitan dengan keperluan keselamatan sahaja. Data tidak menyatakan ciri produk (spesifikasi produk). Data dalam risalah data keselamatan ini juga tidak menyatakan apa-apa ciri khusus atau kesesuaian produk yang dipersetujui untuk apa-apa tujuan tertentu. Penerima produk bertanggungjawab untuk memastikan bahawa apa-apa hak pemilikan serta undang-undang dan perundangan sedia ada dipatuhi.

1. Identification of the chemical and of the supplier

Inveris G75

Use: crop protection product, insecticide

Company:
BASF (Malaysia) Sdn Bhd
Lot 19.02 Level 19, 1 Powerhouse
No 1 Persiaran Bandar Utama
47800 Petaling Jaya
Selangor D.E, MALAYSIA
Telephone: +60 3 7612 1888
Telefax number: +60 3 7612 1777

Emergency information:
National emergency number:
+603 7612 1999
International emergency number:
Telephone: +49 180 2273-112

2. Hazard identification

Classification of the substance and mixture:
Acute Tox. 4 (oral)
Acute Tox. 3 (Inhalation - mist)
Skin Irrit. 2
STOT RE (Central nervous system) 2
Aquatic Acute 1
Aquatic Chronic 1

For the classifications not written out in full in this section the full text can be found in section 16.

Label elements and precautionary statement:

Pictogram:

Signal Word:
Danger

Hazard Statement:

H315	Causes skin irritation.
H331	Toxic if inhaled.
H302	Harmful if swallowed.
H373	May cause damage to organs (Central nervous system) through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH401	To avoid risks to human health and the environment, comply with the instructions for use.

Precautionary Statement:

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.

Precautionary Statements (Prevention):

P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves.
P260	Do not breathe dust/gas/mist/vapours.
P270	Do not eat, drink or smoke when using this product.
P264	Wash contaminated body parts thoroughly after handling.

Precautionary Statements (Response):

P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P311	Call a POISON CENTER or physician.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P330	Rinse mouth.
P391	Collect spillage.
P362 + P364	Take off contaminated clothing and wash it before reuse.

Precautionary Statements (Storage):

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.

Precautionary Statements (Disposal):

P501	Dispose of contents and container to hazardous or special waste collection point.

Other hazards which do not result in classification:
See section 12 - Results of PBT and vPvB assessment.
If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.
Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

3. Composition/information on ingredients

Chemical nature

crop protection product, insecticide

Hazardous ingredients

Cyclopropanecarboxylic acid, [(3S,4R,4aR,6S,6aS,12R,12aS,12bS)-3-[(cyclopropylcarbonyl)oxy]-1,3,4,4a,5,6,6a,12,12a,12b-decahydro-6,12-dihydroxy-4,6a,12b-trimethyl-11-oxo-9-(3-pyridinyl)-2H,11H-naphtho[2,1-b]pyrano[3,4-e]pyran-4-yl]methyl ester

Content (W/W): 4.85 %	Aquatic Chronic 1
CAS Number: 915972-17-7	M-factor chronic: 10000

Abamectin

Content (W/W): 2.47 %	Acute Tox. 1 (Inhalation - dust)
CAS Number: 71751-41-2	Acute Tox. 2 (oral)
	Acute Tox. 3 (dermal)
	Repr. 2 (unborn child)
	STOT RE (Central nervous system) 1
	Aquatic Acute 1
	Aquatic Chronic 1
	M-factor acute: 10000
	M-factor chronic: 10000

Poly(oxy-1,2-ethanediyl), .alpha.-phenyl-.omega.-hydroxy-, styrenated

Content (W/W): < 10 %	Aquatic Chronic 2
CAS Number: 104376-75-2	

Octanamide, N,N-dimethyl-

Content (W/W): < 5 %	Skin Corr./Irrit. 2
CAS Number: 1118-92-9	Eye Dam./Irrit. 1
	STOT SE 3 (irr. to respiratory syst.)

Decanamide, N,N-dimethyl-

Content (W/W): < 5 %	Skin Corr./Irrit. 2
CAS Number: 14433-76-2	Eye Dam./Irrit. 2
	STOT SE 3 (irr. to respiratory syst.)
	Aquatic Chronic 3

propane-1,2-diol

Content (W/W): < 35 %
CAS Number: 57-55-6

For the classifications not written out in full in this section the full text can be found in section 16.

4. First-Aid Measures

General advice:
First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

If inhaled:
Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:
Immediately wash thoroughly with soap and water, seek medical attention.

On contact with eyes:
Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:
Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Note to physician:
Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far
Note to physician:
Hazards: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11. (Further) symptoms and / or effects are not known so far
Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Suitable extinguishing media:
water spray, dry powder, foam, carbon dioxide

Unsuitable extinguishing media for safety reasons:
water jet

Specific hazards:
carbon monoxide, carbon dioxide, nitrogen oxides
The substances/groups of substances mentioned can be released in case of fire.

Special protective equipment:
Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:
Keep containers cool by spraying with water if exposed to fire. In case of fire and/or explosion do not breathe fumes. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:
Do not breathe vapour/spray.Use personal protective clothing.Avoid contact with the skin, eyes and clothing.

Environmental precautions:
Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

Methods for cleaning up or taking up:
For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).
For large amounts: Dike spillage. Pump off product.
Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Wear suitable protective equipment.

7. Handling and Storage

Handling

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. Remove contaminated clothing and protective equipment before entering eating areas.

Protection against fire and explosion:
Vapours may form ignitable mixture with air. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

Storage

Segregate from foods and animal feeds.
Further information on storage conditions: Keep away from heat. Protect from direct sunlight.

Storage stability:
Storage duration: 36 Months

8. Exposure controls and personal protection

Components with occupational exposure limits

Cyclopropanecarboxylic acid, [(3S,4R,4aR,6S,6aS,12R,12aS,12bS)-3-[(cyclopropylcarbonyl)oxy]-1,3,4,4a,5,6,6a,12,12a,12b-decahydro-6,12-dihydroxy-4,6a,12b-trimethyl-11-oxo-9-(3-pyridinyl)-2H,11H-naphtho[2,1-b]pyrano[3,4-e]pyran-4-yl]methyl ester, 915972-17-7;

Personal protective equipment

Respiratory protection:
Suitable respiratory protection for lower concentrations or short-term effect: Combination filter for gases/vapours of organic, inorganic, acid inorganic, alkaline compounds and toxic particles (e. g. EN 14387 Type ABEK-P3)

Hand protection:
Suitable chemical resistant safety gloves (EN ISO 374-1) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc.

Eye protection:
Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:
Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures:
The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

9. Physical and Chemical Properties

Form:	liquid
Colour:	yellow
Odour:	odourless
Odour threshold:	Not determined since toxic by inhalation.
pH value:	approx. 6 - 8 (20 °C)
Melting point:	< 0 °C
Boiling point:	approx. 188 °C
Flash point:	106 °C
Evaporation rate:	not applicable
Flammability (solid/gas):	not applicable
Lower explosion limit:	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
Upper explosion limit:	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
Ignition temperature:	391 °C
Thermal decomposition:	160 °C , 60 kJ/kg 360 °C , 100 kJ/kg

	Not a substance liable to self-decomposition according to UN transport regulations, class 4.1.
Explosion hazard:	not explosive
Fire promoting properties:	not fire-propagating
Vapour pressure:	approx. 0.1 hPa (20 °C)
Density:	approx. 1.01 - 1.02 g/cm3 (20 °C)
Relative vapour density (air):	not applicable
Solubility in water:	dispersible
Partitioning coefficient n-octanol/water (log Pow):	not applicable
Viscosity, dynamic:	approx. 180 mPa.s (20 °C)

Other Information:
If necessary, information on other physical and chemical parameters is indicated in this section.

10. Stability and Reactivity

Conditions to avoid:
See SDS section 7 - Handling and storage.

Thermal decomposition:	160 °C, 60 kJ/kg
Thermal decomposition:	360 °C, 100 kJ/kg
Thermal decomposition:	Not a substance liable to self-decomposition according to UN transport regulations, class 4.1.

Substances to avoid:
strong acids, strong bases, strong oxidizing agents

Hazardous reactions:
No hazardous reactions if stored and handled as prescribed/indicated.

Hazardous decomposition products:
No hazardous decomposition products if stored and handled as prescribed/indicated.

Reactivity:
No hazardous reactions if stored and handled as prescribed/indicated.

Chemical stability:
The product is stable if stored and handled as prescribed/indicated.

11. Toxicological Information

Acute toxicity

Assessment of acute toxicity:
Of pronounced toxicity after short-term inhalation. Of moderate toxicity after single ingestion. Virtually nontoxic after a single skin contact.

Experimental/calculated data:
LD50 rat (oral): > 500 - < 2,000 mg/kg

LC50 rat (by inhalation): > 0.543 mg/l 4 h
No mortality was observed. An aerosol with respirable particles was tested.

LD50 rat (dermal): > 5,000 mg/kg
No mortality was observed.

Irritation

Assessment of irritating effects:
Skin contact causes irritation. Not irritating to the eyes.

Experimental/calculated data:
Skin corrosion/irritation rabbit: Irritant.

Serious eye damage/irritation rabbit: non-irritant

Respiratory/Skin sensitization

Assessment of sensitization:
No sensitizing effect.

Experimental/calculated data:
Buehler test guinea pig: Non-sensitizing.

Germ cell mutagenicity

Assessment of mutagenicity:
Mutagenicity tests revealed no genotoxic potential. The product has not been tested. The statement has been derived from the properties of the individual components.

Carcinogenicity

Assessment of carcinogenicity:
The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Cyclopropanecarboxylic acid, [(3S,4R,4aR,6S,6aS,12R,12aS,12bS)-3-[(cyclopropylcarbonyl)oxy]-1,3,4,4a,5,6,6a,12,12a,12b-decahydro-6,12-dihydroxy-4,6a,12b-trimethyl-11-oxo-9-(3-pyridinyl)-2H,11H-naphtho[2,1-b]pyrano[3,4-e]pyran-4-yl]methyl ester
Assessment of carcinogenicity:
In long-term animal studies in which the substance was given in high doses by feed, a carcinogenic effect was observed. The effect is caused by an animal specific mechanism that has no human counter part.

Reproductive toxicity

Assessment of reproduction toxicity:
The results of animal studies gave no indication of a fertility impairing effect. The product has not been tested. The statement has been derived from the properties of the individual components.

Developmental toxicity

Assessment of teratogenicity:
The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Abamectin
Assessment of teratogenicity:
Indications of possible developmental toxicity/teratogenicity were seen in animal studies.

Information on: N,N-Dimethyloctanamide
Assessment of teratogenicity:
The substance did not cause malformations in animal studies; however, toxicity to development was observed at high doses that were toxic to the parental animals. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: N,N-Dimethyldecan-1-amide
Assessment of teratogenicity:
The substance did not cause malformations in animal studies; however, toxicity to development was observed at high doses that were toxic to the parental animals. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Specific target organ toxicity (single exposure):

Assessment of STOT single:
Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Remarks: The product has not been tested. The statement has been derived from the properties of the individual components.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:
The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Cyclopropanecarboxylic acid, [(3S,4R,4aR,6S,6aS,12R,12aS,12bS)-3-[(cyclopropylcarbonyl)oxy]-1,3,4,4a,5,6,6a,12,12a,12b-decahydro-6,12-dihydroxy-4,6a,12b-trimethyl-11-oxo-9-(3-pyridinyl)-2H,11H-naphtho[2,1-b]pyrano[3,4-e]pyran-4-yl]methyl ester
Assessment of repeated dose toxicity:
Repeated exposure to large quantities may affect certain organs. Based on available data, the classification criteria are not met.

Information on: Abamectin

Assessment of repeated dose toxicity:
Repeated inhalation exposure to small quantities may affect certain organs.
Repeated oral exposure to small quantities may affect certain organs.

Information on: N,N-Dimethyloctanamide
Assessment of repeated dose toxicity:
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. After repeated exposure the prominent effect is local irritation.

Information on: N,N-Dimethyldecan-1-amide
Assessment of repeated dose toxicity:
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. After repeated exposure the prominent effect is local irritation.

Aspiration hazard

not applicable

Other relevant toxicity information

Misuse can be harmful to health.

12. Ecological Information

Ecotoxicity

Assessment of aquatic toxicity:
Very toxic to aquatic life with long lasting effects.

Toxicity to fish:
LC50 (96 h) 0.083 mg/l, Oncorhynchus mykiss

Aquatic invertebrates:
EC50 (48 h) 0.00181 mg/l, Daphnia magna

Aquatic plants:
EC50 (72 h) 4.13 mg/l, Pseudokirchneriella subcapitata

Information on: Abamectin
Chronic toxicity to fish:
No observed effect concentration (28 d) 0.00052 mg/l, Oncorhynchus mykiss
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Information on: Cyclopropanecarboxylic acid, [(3S,4R,4aR,6S,6aS,12R,12aS,12bS)-3-[(cyclopropylcarbonyl)oxy]-1,3,4,4a,5,6,6a,12,12a,12b-decahydro-6,12-dihydroxy-4,6a,12b-trimethyl-11-oxo-9-(3-pyridinyl)-2H,11H-naphtho[2,1-b]pyrano[3,4-e]pyran-4-yl]methyl ester
Chronic toxicity to aquatic invertebrates:
No observed effect concentration (28 d), 0.000004 mg/l, Mysidopsis bahia

Information on: Abamectin
Chronic toxicity to aquatic invertebrates:

No observed effect concentration (28 d), 0,0000035 mg/l, Mysidopsis bahia
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Mobility

Assessment transport between environmental compartments:
The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Cyclopropanecarboxylic acid, [(3S,4R,4aR,6S,6aS,12R,12aS,12bS)-3-[(cyclopropylcarbonyl)oxy]-1,3,4,4a,5,6,6a,12,12a,12b-decahydro-6,12-dihydroxy-4,6a,12b-trimethyl-11-oxo-9-(3-pyridinyl)-2H,11H-naphtho[2,1-b]pyrano[3,4-e]pyran-4-yl]methyl ester
Assessment transport between environmental compartments:
Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

Information on: Abamectin
Assessment transport between environmental compartments:
Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

Persistence and degradability

Assessment biodegradation and elimination (H2O):
The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Cyclopropanecarboxylic acid, [(3S,4R,4aR,6S,6aS,12R,12aS,12bS)-3-[(cyclopropylcarbonyl)oxy]-1,3,4,4a,5,6,6a,12,12a,12b-decahydro-6,12-dihydroxy-4,6a,12b-trimethyl-11-oxo-9-(3-pyridinyl)-2H,11H-naphtho[2,1-b]pyrano[3,4-e]pyran-4-yl]methyl ester
Assessment biodegradation and elimination (H2O):
Not readily biodegradable (by OECD criteria).

Information on: Abamectin
Assessment biodegradation and elimination (H2O):
Not readily biodegradable (by OECD criteria).

Bioaccumulation potential

Assessment bioaccumulation potential:
The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Abamectin
Assessment bioaccumulation potential:
Accumulation in organisms is not to be expected.

Information on: Cyclopropanecarboxylic acid, [(3S,4R,4aR,6S,6aS,12R,12aS,12bS)-3-[(cyclopropylcarbonyl)oxy]-1,3,4,4a,5,6,6a,12,12a,12b-decahydro-6,12-dihydroxy-4,6a,12b-trimethyl-11-oxo-9-(3-pyridinyl)-2H,11H-naphtho[2,1-b]pyrano[3,4-e]pyran-4-yl]methyl ester
Bioaccumulation potential:

Bioconcentration factor: 0.06
Does not accumulate in organisms.

Additional information

Other ecotoxicological advice:
Do not discharge product into the environment without control.

13. Disposal Information

Must be sent to a suitable incineration plant, observing local regulations.

Contaminated packaging:
Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

14. Transportation Information

Domestic transport:

Hazard class:	9
Packing group:	III
ID number:	UN 3082
Hazard label:	9, EHSM
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains ABAMECTIN, AFIDOPYROPEN)

Further information
Hazchem Code:3Z
IERG Number:47

Sea transport
IMDG

Hazard class:	9
Packing group:	III
ID number:	UN 3082
Hazard label:	9, EHSM
Marine pollutant:	YES
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains ABAMECTIN, AFIDOPYROPEN)

Air transport
IATA/ICAO

Hazard class:	9
Packing group:	III
ID number:	UN 3082

Hazard label:	9, EHSM
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains ABAMECTIN, AFIDOPYROPEN)

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

Regulation:	Not evaluated
Shipment approved:	Not evaluated
Pollution name:	Not evaluated
Pollution category:	Not evaluated
Ship Type:	Not evaluated

Further information
Product may be shipped as non-hazardous in suitable packages containing a net quantity of 5 L or less under the provisions of various regulatory agencies: ADR, RID, ADN: Special Provision 375; IMDG: 2.10.2.7; IATA: A197; TDG: Special Provision 99(2); 49CFR: §171.4 (c) (2) and also the Special Provision 375 in Appendix B which is regulated in China "Regulations Concerning Road Transportation of Dangerous Goods Part 3: Index of dangerous goods name and transportation requirements" (JT/T 617.3)

15. Regulatory Information

Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013
OSHA 1994 and relevant regulations
Environmental Quality Act, 1974

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

Other regulations
To avoid risks to man and the environment, comply with the instructions for use.

16. Other Information

Date of Preparation / Date of Revision: 29.01.2024

Information Source and References:
This SDS is prepared using data and information saved in our internal IT-based system and supplied by our company's service providers.

Key Abbreviations:
ATE - Acute Toxicity Estimates
GHS - Globally Harmonized System
IATA / ICAO - International Air Transport Association / International Civil Aviation Organization
IBC - Intermediate Bulk Container
IMDG - International Maritime Dangerous Goods
LC - Lethal Concentration

LD - Lethal Dose
OECD - Organisation for Economic Co-operation and Development
OEL - Occupational Exposure Limit
OSHA - Occupational Safety and Health Act
STOT - Specific Target Organ Toxicity

Full text of classifications, hazard symbols and hazard statements, if mentioned in section 2 or 3:

Unst. Expl.	Unstable explosives
Expl. 1.1	Explosives division 1.1
Expl. 1.2	Explosives division 1.2
Expl. 1.3	Explosives division 1.3
Expl. 1.4	Explosives division 1.4
Expl. 1.5	Explosives division 1.5
Expl. 1.6	Explosives division 1.6
Flam. Gas 1	Flammable gases category 1
Flam. Gas 2	Flammable gases category 2
Flam. Aerosol 1	Flammable aerosols category 1
Flam. Aerosol 2	Flammable aerosols category 2
Flam. Liq. 1	Flammable liquids category 1
Flam. Liq. 2	Flammable liquids category 2
Flam. Liq. 3	Flammable liquids category 3
Flam. Sol. 1	Flammable solids category 1
Flam. Sol. 2	Flammable solids category 2
Ox. Gas 1	Oxidizing gases category 1
Ox. Liq. 1	Oxidizing liquids category 1
Ox. Liq. 2	Oxidizing liquids category 2
Ox. Liq. 3	Oxidizing liquids category 3
Ox. Sol. 1	Oxidizing solids category 1
Ox. Sol. 2	Oxidizing solids category 2
Ox. Sol. 3	Oxidizing solids category 3
Press. Gas	Gases under pressure
Self-react. A	Self-reactive chemicals type A
Self-react. B	Self-reactive chemicals type B
Self-react. CD	Self-reactive chemicals type C and D
Self-react. EF	Self-reactive chemicals type E and F
Self-react. G	Self-reactive chemicals type G
Pyr. Liq. 1	Pyrophoric liquids category 1
Pyr. Sol. 1	Pyrophoric solids category 1
Self-heat. 1	Self-heating chemicals category 1
Self-heat. 2	Self-heating chemicals category 2
Water-react. 1	Chemicals which, if in contact with water, emits flammable gases category 1
Water-react. 2	Chemicals which, if in contact with water, emits flammable gases category 2
Water-react. 3	Chemicals which, if in contact with water, emits flammable gases category 3
Org. Perox. A	Organic peroxides type A
Org. Perox. B	Organic peroxides type B
Org. Perox. CD	Organic peroxides type C and D
Org. Perox. EF	Organic peroxides type E and F
Org. Perox. G	Organic peroxides type G
Met. Corr. 1	Corrosive to metals category 1
Acute Tox. 1	Acute toxicity category 1

Acute Tox. 2	Acute toxicity category 2
Acute Tox. 3	Acute toxicity category 3
Acute Tox. 4	Acute toxicity category 4
Skin Corr. 1A	Skin corrosion or irritation category 1A
Skin Corr. 1B	Skin corrosion or irritation category 1B
Skin Corr. 1C	Skin corrosion or irritation category 1C
Skin Irrit. 2	Skin corrosion or irritation category 2
Eye Dam. 1	Serious eye damage or eye irritation category 1
Eye Irrit. 2	Serious eye damage or eye irritation category 2
Resp. Sens. 1	Respiratory sensitization category 1
Skin Sens. 1	Skin sensitization category 1
Muta. 1A	Germ cell mutagenicity category 1A
Muta. 1B	Germ cell mutagenicity category 1B
Muta. 2	Germ cell mutagenicity category 2
Carc. 1A	Carcinogenicity category 1A
Carc. 1B	Carcinogenicity category 1B
Carc. 2	Carcinogenicity category 2
Repr. 1A	Reproductive toxicity category 1A
Repr. 1B	Reproductive toxicity category 1B
Repr. 2	Reproductive toxicity category 2
Lact.	Effect on or via lactation
STOT SE 1	Specific target organ toxicity – single exposure category 1
STOT SE 2	Specific target organ toxicity – single exposure category 2
STOT SE 3	Specific target organ toxicity – single exposure category 3
STOT RE 1	Specific target organ toxicity – repeated exposure category 1
STOT RE 2	Specific target organ toxicity – repeated exposure category 2
Asp. Haz.	Aspiration hazard category 1
Aquatic Acute 1	Hazardous to the aquatic environment – acute hazard category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – chronic hazard category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – chronic hazard category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – chronic hazard category 3
Aquatic Chronic 4	Hazardous to the aquatic environment – chronic hazard category 4
Ozone	Hazardous to the ozone layer category 1

Vertical lines in the left hand margin indicate an amendment from the previous version.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.