

# Helaian Data Keselamatan

## Safety data sheet

Mukasurat (Page): 1/25

BASF Helaian Data Keselamatan (BASF Safety data sheet)

Tarikh / Disemak (Date / Revised): 19.04.2023

Produk (Product): **Seclira® Gel**

Versi (Version): 3.2

(30685963/SDS\_CPA\_MY/MS)

Tarikh cetakan (Date of print): 12.07.2024

### 1. Pengenalan bahan kimia dan pembekal

#### **Seclira® Gel**

Kegunaan: produk pelindung tanaman, racun serangga

Syarikat:

BASF (Malaysia) Sdn Bhd  
Lot 19.02 Level 19, 1 Powerhouse  
No 1 Persiaran Bandar Utama  
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Maklumat kecemasan:

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### 2. Pengenalan Bahaya

Pengelasan bahan dan campuran:  
Akuatik Kronik 3

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

Unsur label dan pernyataan berjaga-jaga:

Pernyataan Bahaya:

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H412 Memudaratkan 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 (Pelupusan):

P501 Buangkan kandungan dan bekas ke tempat pengumpulan 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, Umpan

#### Ramuan berbahaya

1 Guanidine, N"-methyl-N-nitro-N'-[(tetrahydro-3-furanyl)methyl]-  
 Kandungan (berat/berat): 0.51 % Akuatik Akut 1  
 Nombor CAS: 165252-70-0 Akuatik Kronik 1

Gliserol

Kandungan (berat/berat): < 40 %  
 Nombor CAS: 56-81-5

silika, amorf, wasap, bebas hablur

Kandungan (berat/berat): < 5 %  
 Nombor CAS: 112945-52-5

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

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## 4. Langkah-Langkah Pertolongan Cemas

Nasihat am:

Tanggalkan pakaian yang tercemar.

Jika tersedut:

Tenangkan pesakit, alihkan ke tempat berudara bersih.

Apabila terkena kulit:

Basuh bersih-bersih dengan sabun dan air.

Apabila terkena mata:

Basuh mata yang terkena produk selama sekurang-kurangnya 15 minit di bawah aliran air sambil membuka mata.

Apabila tertelan:

Segera basuh mulut dan kemudian minum 200-300 ml air.

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:

Rawatan: Rawatan gejala (nyahcemar, fungsi utama).

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## 5. Langkah-Langkah Pemadaman Kebakaran

Bahan pemadam yang sesuai:

semburan air, serbuk kering, busa, karbon dioksida

Bahaya tertentu:

karbon monoksida, karbon dioksida, nitrogen oksida, Bahan silika

Bahan/kumpulan bahan yang dinyatakan boleh dibebaskan jika berlaku kebakaran.

Peralatan perlindungan khusus:

Gunakan alat pernafasan serba lengkap dan pakaian pelindung kimia.

Maklumat lanjut:

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. Dalam hal kebakaran dan/atau letupan jangan menyedut wasap. Pastikan bekas sejuk dengan menyembur air pada bekas jika terdedah kepada kebakaran.

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## 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.

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## 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.

Perlindungan terhadap kebakaran dan letupan:

Tiada langkah berjaga-jaga yang khusus diperlukan. Bahan/produk tidak mudah terbakar. Produk tidak meletup.

### 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: 60 bulan

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## 8. Kawalan pendedahan dan perlindungan diri

### Komponen dengan parameter kawalan tempat kerja

Gliserol, 56-81-5;

Nilai TWA 10 mg/m<sup>3</sup> (OEL (Peraturan USECHH Malaysia)), Kabut

silika, amorf, wasap, bebas hablur, 112945-52-5;

Nilai TWA 10 mg/m<sup>3</sup> (ACGIHTLV), Zarah boleh disedut (inhalable)

Nilai TWA 3 mg/m<sup>3</sup> (ACGIHTLV), Zarah boleh sedut

### Peralatan perlindungan peribadi

Perlindungan pernafasan:

Perlindungan pernafasan tidak diperlukan.

**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:**

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

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## 9. Sifat Fizikal dan Kimia

|                               |                                                                                                                                                                                                                      |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bentuk:                       | cecair                                                                                                                                                                                                               |
| Warna:                        | sawo matang hingga perang                                                                                                                                                                                            |
| Bau:                          | khusus                                                                                                                                                                                                               |
| Ambang bau:                   | Tidak ditentukan disebabkan oleh bahaya kesihatan yang mungkin melalui penyedutan.                                                                                                                                   |
| nilai pH:                     | dianggarkan 4 - 8<br>(25.7 °C)                                                                                                                                                                                       |
| takat lebur:                  | dianggarkan 18 °C<br>Maklumat berdasarkan kepada komponen-komponen utama.                                                                                                                                            |
| takat didih:                  | dianggarkan 100 °C<br>Maklumat terpakai kepada pelarut.                                                                                                                                                              |
| Takat kilat:                  | Tidak mudah terbakar., Maklumat terpakai kepada pelarut.                                                                                                                                                             |
| 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. |

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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:

dianggarkan 400 °C  
Maklumat terpakai kepada pelarut.

Penguraian terma:

Tiada penguraian jika disimpan dan dikendalikan seperti yang ditetapkan/dinyatakan.

Bahaya letupan:

Berdasarkan struktur kimia tiada petunjuk ciri-ciri mudah meletup.

Sifat yang menggalakkan

kebakaran: Berdasarkan sifat strukturnya produk ini tidak dikelasifikasikan sebagai pengoksida.

Tekanan Wap:

dianggarkan < 0.01 Pa  
(20 °C)  
Maklumat berdasarkan kepada komponen-komponen utama.

Kepekatan:

dianggarkan 1.20 g/cm<sup>3</sup>  
(20 °C)

Ketumpatan wap relatif (udara):

Tidak boleh digunakan

Keterlarutan dalam air: mudah terserak

Pekali petakan n-oktanol/air (log Pow):

Penyataan adalah berdasarkan ciri setiap komponen.

Maklumat tentang : 1 Guanidine, N"-methyl-N'-nitro-N'-[(tetrahydro-3-furanyl)methyl]-

Pekali petakan n-oktanol/air (log Pow): -0.549

(25 °C)

Kelikatan, dinamik:

dianggarkan 124.5 Pa.s  
(23 °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:

Tiada penguraian jika disimpan dan dikendalikan seperti yang ditetapkan/dinyatakan.

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

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## 11. Maklumat Toksikologi

### Ketoksikan akut

Penilaian ketoksikan akut:  
Tidak toksik selepas sekali ditelan. Tidak toksik jika tersedut. Tidak toksik selepas sekali terkena kulit

Data eksperimen/dikira:  
LD50 tikus (melalui mulut): > 5,000 mg/kg  
Tiada kematian diperhatikan

LC50 tikus (melalui penyedutan): > 2.07 mg/l 4 h  
Tiada kematian diperhatikan

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

### Kerengsaan

Penilaian kesan merengsa:  
Tidak merengsakan kulit. Tidak merengsakan mata.

Data eksperimen/dikira:  
Kakisan/Kerengsaan kulit arnab:

Kerosakkan/kerengsaan mata yang serius arnab:

### Pemekaan pernafasan/kulit

Penilaian pemekaan:  
Tidak terdapat bukti pemekaan kulit yang berpotensi.

Data eksperimen/dikira:  
Ujian Buehler marmut:

**Kemutagenan sel germa**

Penilaian kemutagenan:

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

**Kekarsinogenan**

Penilaian kekarsinogenan:

Produk belum diuji. Penyataan diambil daripada ciri setiap komponen. Keputusan pelbagai ujian haiwan tidak menunjukkan kesan karsonogen.

**Ketoksikan pembiakan**

Penilaian ketoksikan pembiakan:

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

**Ketoksikan perkembangan**

Penilaian keteratogenan:

Produk belum diuji. Penyataan diambil daripada ciri setiap komponen. Kajian haiwan tidak menunjukkan kesan yang menjejaskan kesuburan pada dos yang tidak toksik kepada haiwan induk.

**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 (ppededahan berulang)**

Penilaian ketoksikan dos berulang:

Produk belum diuji. Penyataan diambil daripada ciri setiap komponen.

Maklumat tentang : silika, amorf, wasap, bebas hablur

Penilaian ketoksikan dos berulang:

Penyedutan zarah/debu secara berulang sehingga sampai ke alveoli boleh menyebabkan kerosakan paru-paru.

**Bahaya penyedutan**

Produk belum diuji. Penyataan diambil daripada ciri setiap komponen.

Tiada bahaya penyedutan dijangka.

**Maklumat lain yang berkaitan dengan ketoksikan**

Penyalahgunaan boleh memudaratkan kesihatan.

## 12. Maklumat Ekologi

### Keekotoksikan

Penilaian ketoksikan akuatik:

Memudaratkan kepada hidupan akuatik dengan kesan yang berpanjangan.

Produk belum diuji. Penyataan diambil daripada ciri setiap komponen.

Maklumat tentang : 1 Guanidine, N"-methyl-N-nitro-N'-[(tetrahydro-3-furanyl)methyl]-  
Ketoksikan kepada ikan:

LC50 (96 h) > 100 mg/l, *Oncorhynchus mykiss*

LC50 (96 h) > 100 mg/l, *Cyprinus carpio*

Maklumat tentang : 1 Guanidine, N"-methyl-N-nitro-N'-[(tetrahydro-3-furanyl)methyl]-  
Invertebrat air:

EC50 (48 h) > 1,000 mg/l, *Daphnia magna*

EC50 (96 h) 0.79 mg/l, *Mysidopsis bahia*

Maklumat tentang : 1 Guanidine, N"-methyl-N-nitro-N'-[(tetrahydro-3-furanyl)methyl]-  
Tumbuhan akuatik:

EC50 (72 h) 97.6 mg/l (jisim-bio), *Pseudokirchneriella subcapitata*

Maklumat tentang : 1 Guanidine, N"-methyl-N-nitro-N'-[(tetrahydro-3-furanyl)methyl]-  
Ketoksikan kronik kepada invertebrata akuatik:

Tiada kesan kepekatan yang diperhatikan, 0.089 mg/l, *Mysidopsis bahia*

### Mobiliti

Penilaian pengangkutan di antara bahagian di persekitaran:

Produk belum diuji. Penyataan diambil daripada ciri setiap komponen.

Maklumat tentang : 1 Guanidine, N"-methyl-N-nitro-N'-[(tetrahydro-3-furanyl)methyl]-  
Penilaian pengangkutan di antara bahagian di persekitaran:

Selepas terdedah kepada tanah, produk ini bergerak dan mungkin - bergantung kepada degradasi - menyerap masuk kedalam tanah yang mengandungi kandungan air yang banyak

### Keterusan dan boleh keterdegradasikan

Penilaian biodegradasi dan penyingkiran (H<sub>2</sub>O):

Produk belum diuji. Penyataan diambil daripada ciri setiap komponen.

Maklumat tentang : 1 Guanidine, N"-methyl-N-nitro-N'-[(tetrahydro-3-furanyl)methyl]-  
Penilaian biodegradasi dan penyingkiran (H<sub>2</sub>O):

Tidak mudah terbiodegradasikan (oleh kriteria OECD).

### Potensi Biotumpukan

Penilaian potensi bioakumulasi:

Produk belum diuji. Pernyataan diambil daripada ciri setiap komponen.

Maklumat tentang : 1 Guanidine, N"-methyl-N-nitro-N'-[(tetrahydro-3-furanyl)methyl]-

Penilaian potensi bioakumulasi:

Oleh sebab pekali agihan n-oktanol/air (log Pow), tidak dijangka terakumulasi 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:

Tidak dikelaskan sebagai berbahaya di bawah peraturan pengangkutan

### Pengangkutan laut

IMDG

Tidak dikelaskan sebagai berbahaya di bawah peraturan pengangkutan

### Pengangkutan udara

IATA/ICAO

Tidak dikelaskan sebagai berbahaya di bawah peraturan pengangkutan

### 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

## 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: 19.04.2023

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 Pukul 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

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|                 |                                                                               |
|-----------------|-------------------------------------------------------------------------------|
| 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                                              |

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|                  |                                                                  |
|------------------|------------------------------------------------------------------|
| 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

### Seclira® Gel

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:

Aquatic Chronic 3

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:

Hazard Statement:

H412

Harmful 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 (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, Bait

#### Hazardous ingredients

dinotefuran (ISO); (RS)-1-methyl-2-nitro-3-(tetrahydro-3-furylmethyl)guanidine

Content (W/W): 0.51 %

Aquatic Acute 1

CAS Number: 165252-70-0

Aquatic Chronic 1

glycerol

Content (W/W): < 40 %

CAS Number: 56-81-5

Silica, amorphous, fumed, cryst.-free

Content (W/W): < 5 %

CAS Number: 112945-52-5

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:

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air.

On skin contact:

Wash thoroughly with soap and water

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion:

Rinse mouth and then drink 200-300 ml of water.

Note to physician:

---

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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:

Treatment: Symptomatic treatment (decontamination, vital functions).

---

## 5. Fire-Fighting Measures

Suitable extinguishing media:

water spray, dry powder, foam, carbon dioxide

Specific hazards:

carbon monoxide, carbon dioxide, nitrogen oxides, silica compounds

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:

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. In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire.

---

## 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.

---

## 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.

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Protection against fire and explosion:

No special precautions necessary. The substance/product is non-combustible. Product is not explosive.

#### Storage

Segregate from foods and animal feeds.

Further information on storage conditions: Keep away from heat. Protect from direct sunlight.

Storage stability:

Storage duration: 60 Months

---

## 8. Exposure controls and personal protection

### Components with occupational exposure limits

glycerol, 56-81-5;

TWA value 10 mg/m<sup>3</sup> (OEL (MY)), Mist

Silica, amorphous, fumed, cryst.-free, 112945-52-5;

TWA value 10 mg/m<sup>3</sup> (ACGIHTLV), Inhalable particlesTWA value 3 mg/m<sup>3</sup> (ACGIHTLV), Respirable particles

### Personal protective equipment

Respiratory protection:

Respiratory protection not required.

Hand protection:

Suitable chemical resistant safety gloves (EN ISO 374-1) also with prolonged, direct contact

(Recommended: Protective index 6, corresponding &gt; 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:

Wearing of closed work clothing is recommended. The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing.

Keep away from food, drink and animal feeding stuffs. Store work clothing separately.

---

## 9. Physical and Chemical Properties

Form: liquid

Colour: tan to brown

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|                                |                                                                                                                                                                                                        |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Odour:                         | characteristic                                                                                                                                                                                         |
| Odour threshold:               | Not determined due to potential health hazard by inhalation.                                                                                                                                           |
| pH value:                      | approx. 4 - 8<br>(25.7 °C)                                                                                                                                                                             |
| Melting point:                 | approx. 18 °C<br>Information based on the main component/s.                                                                                                                                            |
| Boiling point:                 | approx. 100 °C<br>Information applies to the solvent.                                                                                                                                                  |
| Flash point:                   | Non-flammable., Information applies to the solvent.                                                                                                                                                    |
| 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:          | approx. 400 °C<br>Information applies to the solvent.                                                                                                                                                  |
| Thermal decomposition:         | No decomposition if stored and handled as prescribed/indicated.                                                                                                                                        |
| Explosion hazard:              | Based on the chemical structure there is no indication of explosive properties.                                                                                                                        |
| Fire promoting properties:     | Based on its structural properties the product is not classified as oxidizing.                                                                                                                         |
| Vapour pressure:               | approx. < 0.01 Pa<br>(20 °C)<br>Information based on the main component/s.                                                                                                                             |
| Density:                       | approx. 1.20 g/cm <sup>3</sup><br>(20 °C)                                                                                                                                                              |
| Relative vapour density (air): | not applicable                                                                                                                                                                                         |

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Solubility in water: dispersible

Partitioning coefficient n-octanol/water (log Pow):

The statements are based on the  
properties of the individual  
components.

Information on: dinotefuran (ISO); (RS)-1-methyl-2-nitro-3-(tetrahydro-3-furylmethyl)guanidine

Partitioning coefficient n-octanol/water (log Pow): -0.549  
(25 °C)Viscosity, dynamic: approx. 124.5 Pa.s  
(23 °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:

No decomposition if stored and handled as  
prescribed/indicated.

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:

Virtually nontoxic after a single ingestion. Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact.

Experimental/calculated data:

LD50 rat (oral): &gt; 5,000 mg/kg

No mortality was observed.

LC50 rat (by inhalation): > 2.07 mg/l 4 h

No mortality was observed.

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

No mortality was observed.

### **Irritation**

Assessment of irritating effects:

Not irritating to the skin. Not irritating to the eyes.

Experimental/calculated data:

Skin corrosion/irritation rabbit:

Serious eye damage/irritation rabbit:

### **Respiratory/Skin sensitization**

Assessment of sensitization:

There is no evidence of a skin-sensitizing potential.

Experimental/calculated data:

Buehler test guinea pig:

### **Germ cell mutagenicity**

Assessment of mutagenicity:

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

### **Carcinogenicity**

Assessment of carcinogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. The results of various animal studies gave no indication of a carcinogenic effect.

### **Reproductive toxicity**

Assessment of reproduction toxicity:

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

### **Developmental toxicity**

Assessment of teratogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

### **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: Silica, amorphous, fumed, cryst.-free

Assessment of repeated dose toxicity:

Repeated inhalative uptake of particles/dust reaching the alveoli may cause damage to the lungs.

### **Aspiration hazard**

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

No aspiration hazard expected.

### **Other relevant toxicity information**

Misuse can be harmful to health.

---

## **12. Ecological Information**

### **Ecotoxicity**

Assessment of aquatic toxicity:

Harmful to aquatic life with long lasting effects.

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

Information on: dinotefuran (ISO); (RS)-1-methyl-2-nitro-3-(tetrahydro-3-furylmethyl)guanidine

Toxicity to fish:

LC50 (96 h) > 100 mg/l, *Oncorhynchus mykiss*

LC50 (96 h) > 100 mg/l, *Cyprinus carpio*

Information on: dinotefuran (ISO); (RS)-1-methyl-2-nitro-3-(tetrahydro-3-furylmethyl)guanidine

Aquatic invertebrates:

EC50 (48 h) > 1,000 mg/l, *Daphnia magna*

EC50 (96 h) 0.79 mg/l, *Mysidopsis bahia*

Information on: dinotefuran (ISO); (RS)-1-methyl-2-nitro-3-(tetrahydro-3-furylmethyl)guanidine

Aquatic plants:

---

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EC50 (72 h) 97.6 mg/l (biomass), *Pseudokirchneriella subcapitata*  
-----

Information on: dinotefuran (ISO); (RS)-1-methyl-2-nitro-3-(tetrahydro-3-furylmethyl)guanidine

Chronic toxicity to aquatic invertebrates:

No observed effect concentration, 0.089 mg/l, *Mysidopsis bahia*  
-----**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: dinotefuran (ISO); (RS)-1-methyl-2-nitro-3-(tetrahydro-3-furylmethyl)guanidine

Assessment transport between environmental compartments:

Following exposure to soil, the product trickles away and can - dependant on degradation - be transported to deeper soil areas with larger water loads.  
-----**Persistence and degradability**Assessment biodegradation and elimination (H<sub>2</sub>O):

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

Information on: dinotefuran (ISO); (RS)-1-methyl-2-nitro-3-(tetrahydro-3-furylmethyl)guanidine

Assessment biodegradation and elimination (H<sub>2</sub>O):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: dinotefuran (ISO); (RS)-1-methyl-2-nitro-3-(tetrahydro-3-furylmethyl)guanidine

Assessment bioaccumulation potential:

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.  
-----**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.

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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:

Not classified as a dangerous good under transport regulations

### Sea transport

IMDG

Not classified as a dangerous good under transport regulations

### Air transport

IATA/ICAO

Not classified as a dangerous good under transport regulations

### 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

---

## 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: 19.04.2023

### 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.

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## 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 |

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|                   |                                                                             |
|-------------------|-----------------------------------------------------------------------------|
| 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.