

Risalah Data Keselamatan

Safety data sheet

Mukasurat (Page): 1/27

BASF Risalah Data Keselamatan (BASF Safety data sheet)

Tarikh / Disemak (Date / Revised): 12.01.2022

Produk (Product): **MERIVON**

Versi (Version): 2.0

(10956515/SDS_GEN_MY/MS)

Tarikh cetakan (Date of print) 13.01.2022

1. Pengenalan bahan kimia dan pembekal

MERIVON

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2. Pengenalan Bahaya

Pengelasan bahan dan campuran:

Ketoksikan akut: Kat. 3 (oral)

Ketoksikan akut: Kat. 4 (Penyedutan - kabus)

Toksik kepada pembiakan: Kat. Kategori tambahan untuk kesan pada atau melalui penyusuan.

Pendedahan tunggal STOT: Kat. 3 (kerengsaan pada sistem pernafasan)

Bahaya akut kepada persekitaran akuatik: Kat. 1

Bahaya kronik kepada persekitaran akuatik.: Kat. 1

Unsur label dan pernyataan berjaga-jaga:

Piktogram:

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Kata Isyarat:
bahaya

Pernyataan Bahaya:

H332	Memudaratkan jika tersedut.
H301	Toksik jika tertelan.
H362	Boleh memudaratkan bayi yang menyusu badan.
H335	Boleh menyebabkan kerengsaan saluran pernafasan.
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.
P260	Jangan sedut debu/kabus/wap.
P202	Jangan kendalikan sehingga semua langkah keselamatan telah dibaca dan difahami.
P263	Elak daripada persentuhan semasa mengandung dan menyusu.
P270	Jangan makan, minum atau merokok semasa menggunakan produk ini. Basuh bahagian badan yang tercemar sebersih-bersihnya selepas pengendalian.

Pernyataan Berjaga-jaga (Tindak Balas):

	JIKA terdedah atau terkena bahan: Hubungi PUSAT RACUN atau pakar perubatan.
P301 + P310	JIKA TERTELAN: Segera hubungi PUSAT RACUN atau pakar perubatan.
P304 + P340	JIKA TERSEDUT: Pindahkan mangsa ke kawasan berudara segar dan pastikan mangsa selesai bernafas.
P330	Bilas mulut.
P391	Pungut tumpahan.

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 pengumpulan bahan sisa merbahaya atau khas.
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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.

Boleh menyebabkan tindakbalas alahan : Mengandungi 2-methyl-2H-isothiazol-3-one

3. Komposisi dan Maklumat Mengenai Ramuan Bahan Kimia

Keadaan kimia

produk pelindung tanaman, fungisid, pekatan ampaian (SC)

Ramuan berbahaya

1H-Pyrazole-4-carboxamide, 3-(difluoromethyl)-1-methyl-N-(3',4',5'-trifluoro[1,1'-biphenyl]-2-yl)-	
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	Kandungan (berat/berat): 21.26 %	Repr.: Kat.
	Nombor CAS: 907204-31-3	Aquatic Acute: Kat. 1
		Aquatic Chronic: Kat. 1
		Faktor-M akut: 1
		Faktor-M kronik: 1

Carbamic acid, [2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]methoxy-, methyl ester	
--	--

	Kandungan (berat/berat): 21.26 %	Acute Tox.: Kat. 3 (Penyedutan - kabus)
	Nombor CAS: 175013-18-0	Skin Corr./Irrit.: Kat. 2
		STOT SE: Kat. 3 (irr. to respiratory syst.)
		Aquatic Acute: Kat. 1
		Aquatic Chronic: Kat. 1
		Faktor-M akut: 100
		Faktor-M kronik: 100

Residues (petroleum), catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts	
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	Kandungan (berat/berat): < 3 %	Eye Dam./Irrit.: Kat. 2
	Nombor CAS: 68425-94-5	Aquatic Chronic: Kat. 3

Benzenesulfonic acid, hydroxy-, polymer with formaldehyde, phenol and urea, sodium salt	
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	Kandungan (berat/berat): < 3 %	Eye Dam./Irrit.: Kat. 2
	Nombor CAS: 102980-04-1	Aquatic Chronic: Kat. 3

2-methyl-2H-isothiazol-3-one	
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Kandungan (berat/berat): < 0.005 %

Nombor CAS: 2682-20-4

Acute Tox.: Kat. 2 (Penyedutan - habuk)

Acute Tox.: Kat. 3 (oral)

Acute Tox.: Kat. 3 (dermis)

Skin Corr./Irrit.: Kat. 1B

Eye Dam./Irrit.: Kat. 1

Skin Sens.: Kat. 1A

Aquatic Acute: Kat. 1

Aquatic Chronic: Kat. 1

Faktor-M akut: 10

Faktor-M kronik: 1

propan-1,2-diol

Kandungan (berat/berat): < 10 %

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 produk selama sekurang-kurangnya 15 minit di bawah aliran air sambil membuka 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:

Rawatan: Rawat mengikut gejala (nyahcemar, fungsi utama), tiada penawar khusus diketahui.

5. Langkah-Langkah Pemadaman Kebakaran

Bahan pemadam yang sesuai:

semburan air, karbon dioksida, busa, serbuk kering

Alat memadam yang tidak sesuai untuk tujuan keselamatan:
pancutan air

Bahaya tertentu:

karbon monoksida, karbon dioksida, hidrogen klorida, hidrogen florida, nitrogen oksida, sebatian halogen, sulfur 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:

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

Langkah pencegahan diri:

Jangan bernafaskan wap/semburan. Gunakan 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:

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: 36 bulan

Lindungi daripada suhu di bawah : -5 °C

Perubahan pada ciri produk boleh berlaku jika bahan/produk disimpan di bawah suhu yang dinyatakan untuk tempoh yang panjang.

Lindungi daripada suhu melebihi : 40 °C

Perubahan ciri produk boleh berlaku jika bahan/produk disimpan melebihi suhu yang dinyatakan bagi tempoh yang panjang.

8. Kawalan pendedahan dan perlindungan diri

Komponen dengan parameter kawalan tempat kerja

| Tiada had pendedahan pekerjaan tertentu yang diketahui.

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.

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9. Sifat Fizikal dan Kimia

Bentuk:	cecair	
Warna:	kuning air	
Bau:	sedikit berbau, buah	
Ambang bau:	Tidak ditentukan kerana berbahaya melalui penyedutan.	
nilai pH:	dianggarkan 6 - 8 (Air D Piawaian CIPAC., 1 %(m), 20 °C)	
suhu penghabluran:	dianggarkan -6.7 °C	
takat didih:	dianggarkan 100 °C Maklumat terpakai kepada pelarut.	
Takat kilat:	Tiada takat kilat- Ukuran dibuat sehingga ke takat didih.	
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:	517 °C	(Arahan 92/69/EEC, A.15)
Penguraian terma:	160 °C , 110 kJ/kg (suhu permulaan)	(DDK (OECD 113))
	270 °C , 320 kJ/kg (suhu permulaan)	(DDK (OECD 113))
	410 °C , > 80 kJ/kg (suhu permulaan)	(DDK (OECD 113))
Bahaya letupan:	Bahan tidak boleh mengurai sendiri menurut peraturan-peraturan pengangkutan UN, kelas 4.1 tidak mudah meletup	(Arahan 92/69/EEC, A.14)

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Sifat yang menggalakkan kebakaran:	tidak merebakkan api	(Direktif 2004/73/EC, A.21)
Tekanan Wap:	dianggarkan 23 hPa (20 °C) Maklumat terpakai kepada pelarut.	
Kepekatan:	dianggarkan 1.18 g/cm ³ (20 °C)	(Garis panduan OECD 109)
Ketumpatan wap relatif (udara):	dianggarkan 0.017 Maklumat berdasarkan kepada komponen-komponen utama.	
Keterlarutan dalam air:	mudah terserak	
Pekali petakan n-oktanol/air (log Pow):	Tidak boleh digunakan	
Kelikatan, dinamik:	dianggarkan 35 mPa.s (40 °C, 100 1/s)	(OECD 114)

10. Kestabilan dan Kereaktifan

Keadaan yang perlu dielakkan:

Lihat MSDS bahagian 7 - Pengendalian dan Penyimpanan.

Penguraian terma:	160 °C, 110 kJ/kg (DDK (OECD 113)) (suhu permulaan)
Penguraian terma:	270 °C, 320 kJ/kg (DDK (OECD 113)) (suhu permulaan)
Penguraian terma:	410 °C, > 80 kJ/kg (DDK (OECD 113)) (suhu permulaan)
Penguraian terma:	Bahan tidak boleh mengurai sendiri menurut peraturan-peraturan pengangkutan UN, kelas 4.1

Bahan yang perlu dielakkan:

agen pengoksida yang kuat, bes kuat, asid 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.

11. Maklumat Toksikologi

Ketoksikan akut

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Penilaian ketoksikan akut:

Menyebabkan ketoksikan jika tertelan sekali. Ketoksikan sederhana selepas pendedahan jangka-
pendek. Tidak toksik selepas sekali terkena kulit

Data eksperimen/dikira:

LD50 tikus (melalui mulut): > 50 - < 300 mg/kg (Garispanduan OECD 423)

LC50 tikus (melalui penyedutan): 2.81 mg/l 4 h (Garispanduan OECD 403)

Aerosol diuji

LD50 tikus (dermal): > 5,000 mg/kg (Garispanduan OECD 402)

Tiada kematian diperhatikan

Kerengsaan

Penilaian kesan merengsa:

Tidak merengsakan kulit. Tidak merengsakan mata.

Data eksperimen/dikira:

Kakisan/Kerengsaan kulit arnab: (Garispanduan OECD 404)

Kerosakkan/kerengsaan mata yang serius arnab: (Garispanduan OECD 405)

Pemekaan pernafasan/kulit

Penilaian pemekaan:

Pemekaan selepas sentuhan kulit yang berulang mungkin berlaku. Produk belum diuji. Penyataan
diambil daripada ciri setiap komponen.

Maklumat tentang : 2-methyl-2H-isothiazol-3-one

Data eksperimen/dikira:

marmut: pemekaan kulit (Garispanduan OECD 406)

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 : 1H-Pyrazole-4-carboxamide, 3-(difluoromethyl)-1-methyl-N-(3',4',5'-trifluoro[1,1'-
biphenyl]-2-yl)-; Fluxapyroxad

Penilaian kekarsinogenan:

Petunjuk kesan karsinogen yang mungkin dalam ujian ke atas haiwan Kesan disebabkan oleh
mekanisme khusus haiwan yang tidak memberikan kesan kepada manusia.

Ketoksikan pembiakan

Penilaian ketoksikan pembiakan:

Produk belum diuji. Penyataan diambil daripada ciri setiap komponen.

Maklumat tentang : 1H-Pyrazole-4-carboxamide, 3-(difluoromethyl)-1-methyl-N-(3',4',5'-trifluoro[1,1'-biphenyl]-2-yl)-; Fluxapyroxad

Penilaian ketoksikan pembiakan:

Keputusan kajian haiwan tidak menunjukkan kesan gangguan kesuburan. Boleh membahayakan kanak-kanak melalui penyusuan ibu.

Ketoksikan perkembangan

Penilaian keteratogenan:

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

Ketoksikan khusus organ sasaran (sekali pendedahan):

Penilaian sekali STOT:

Menyebabkan kerengsaan sementara pada saluran pernafasan.

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 : 1H-Pyrazole-4-carboxamide, 3-(difluoromethyl)-1-methyl-N-(3',4',5'-trifluoro[1,1'-biphenyl]-2-yl)-; Fluxapyroxad

Penilaian ketoksikan dos berulang:

Kesan adaptif diperhatikan selepas pendedahan berulang-ulang didalam ujian haiwan.

Maklumat tentang : Carbamic acid, [2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]methoxy-, methyl ester

Penilaian ketoksikan dos berulang:

Selepas pemberian yang berulang, kesan yang nyata ialah kerengsaan Bahan mungkin menyebabkan kerosakkan pada epitelium olfaktori selepas penyedutan yang berulang-ulang.

Bahaya penyedutan

Tiada bahaya penyedutan dijangka.

Produk belum diuji. Penyataan diambil daripada ciri setiap komponen.

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) 0.032 mg/l, *Oncorhynchus mykiss* (OECD 203; ISO 7346; 92/69/EEC, C.1, statik)

Invertebrat air:

EC50 (48 h) 0.068 mg/l, *Daphnia magna* (Garis panduan OECD 202, Bahagian 1, statik)

Tumbuhan akuatik:

EC50 (72 h) 3.56 mg/l (kadar pertumbuhan), *Pseudokirchneriella subcapitata* (Garis panduan OECD 201, statik)

EC10 (72 h) 0.44 mg/l (kadar pertumbuhan), *Pseudokirchneriella subcapitata* (Garis panduan OECD 201, statik)

Mobiliti

Penilaian pengangkutan di antara bahagian di persekitaran:

Produk belum diuji. Penyataan diambil daripada ciri setiap komponen.

Maklumat tentang : 1H-Pyrazole-4-carboxamide, 3-(difluoromethyl)-1-methyl-N-(3',4',5'-trifluoro[1,1'-biphenyl]-2-yl)-; Fluxapyroxad

Penilaian pengangkutan di antara bahagian di persekitaran:

Diikuti dengan pendedahan kepada tanah, penyerapan ke atas zarah tanah

Maklumat tentang : Carbamic acid, [2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]methoxy-, methyl ester

Penilaian pengangkutan di antara bahagian di persekitaran:

Diikuti dengan pendedahan kepada tanah, penyerapan ke atas zarah tanah

Keterusan dan boleh keterdegradasikan

Penilaian biodegradasi dan penyingkiran (H₂O):

Produk belum diuji. Penyataan diambil daripada ciri setiap komponen.

Maklumat tentang : 1H-Pyrazole-4-carboxamide, 3-(difluoromethyl)-1-methyl-N-(3',4',5'-trifluoro[1,1'-biphenyl]-2-yl)-; Fluxapyroxad

Penilaian biodegradasi dan penyingkiran (H₂O):

Tidak mudah terbiodegradasikan (oleh kriteria OECD).

Maklumat tentang : Carbamic acid, [2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]methoxy-, methyl ester

Potensi Biotumpukan

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Penilaian potensi bioakumulasi:

Produk belum diuji. Pernyataan diambil daripada ciri setiap komponen.

Maklumat tentang : 1H-Pyrazole-4-carboxamide, 3-(difluoromethyl)-1-methyl-N-(3',4',5'-trifluoro[1,1'-biphenyl]-2-yl)-; Fluxapyroxad

Potensi Biotumpukan:

Faktor Kebiopekatan: 36 - 37 (28 hari), *Lepomis macrochirus* ()

Tidak terkumpul dalam organisma.

Maklumat tentang : Carbamic acid, [2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]methoxy-, methyl ester

Potensi Biotumpukan:

Faktor Kebiopekatan: 379 - 507, *Oncorhynchus mykiss* ()

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:**

Kelas bahaya: 6.1

Kumpulan pembungkusan: III

Nombor-ID: UN 2902

Label Bahaya: 6.1, EHSM

Nama penghantaran yang betul: RACUN PEROSAK, CECAIR, TOKSIK, N.O.S. (mengandungi PYRACLOSTROBIN, FLUXAPYROXAD)

Maklumat lanjut

Kod Hazchem: 2X

Nombor IERG: 34

Pengangkutan laut

IMDG

Kelas bahaya: 6.1

Kumpulan pembungkusan: III

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Nombor-ID:	UN 2902
Label Bahaya:	6.1, EHSM
Bahan pencemar laut:	YA
Nama penghantaran yang betul:	RACUN PEROSAK, CECAIR, TOKSIK, N.O.S. (mengandungi PYRACLOSTROBIN, FLUXAPYROXAD)

Pengangkutan udara

IATA/ICAO

Kelas bahaya:	6.1
Kumpulan pembungkusan:	III
Nombor-ID:	UN 2902
Label Bahaya:	6.1
Nama penghantaran yang betul:	RACUN PEROSAK, CECAIR, TOKSIK, N.O.S. (mengandungi PYRACLOSTROBIN, FLUXAPYROXAD)

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 lain**

Jika maklumat peraturan lain yang berkenaan tidak dinyatakan dibahagian lain didalam risalah data keselamatan ini, ianya akan dinyatakan bahagian ini.

16. Maklumat lain

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

Repr.	Toksik kepada pembiakan
Aquatic Acute	Bahaya akut kepada persekitaran akuatik
Aquatic Chronic	Bahaya kronik kepada persekitaran akuatik.
Acute Tox.	Ketoksikan akut
Skin Corr./Irrit.	Kakisan/kerengsaan kulit
STOT SE	Pendedahan tunggal STOT
Eye Dam./Irrit.	Kerengsaan mata/ kerosakan mata yang serius
Skin Sens.	Pemeka kulit

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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.

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1. Identification of the chemical and of the supplier

MERIVON

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 toxicity: Cat. 3 (oral)

Acute toxicity: Cat. 4 (Inhalation - mist)

Reproductive toxicity: Cat. Additional category for effects on or via lactation.

Specific target organ toxicity — single exposure: Cat. 3 (irritating to respiratory system)

Hazardous to the aquatic environment - acute: Cat. 1

Hazardous to the aquatic environment - chronic: Cat. 1

Label elements and precautionary statement:

Pictogram:



Signal Word:

Danger

Hazard Statement:

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H332	Harmful if inhaled.
H301	Toxic if swallowed.
H362	May cause harm to breast-fed children.
H335	May cause respiratory irritation.
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.
P260	Do not breathe dust/mist/vapours.
P202	Do not handle until all safety precautions have been read and understood.
P263	Avoid contact during pregnancy and while nursing.
P270	Do not eat, drink or smoke when using this product.
P264	Wash contaminated body parts thoroughly after handling.

Precautionary Statements (Response):

P308 + P311	IF exposed or concerned: Call a POISON CENTER or physician.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or physician.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P330	Rinse mouth
P391	Collect spillage.

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.

May produce an allergic reaction. Contains: 2-METHYL-2H-ISOTHIAZOL-3-ONE

3. Composition/information on ingredients

Chemical nature

crop protection product, fungicide, suspension concentrate (SC)

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Hazardous ingredients**| Fluxapyroxad**Content (W/W): 21.26 %
CAS Number: 907204-31-3Repr.: Cat. Add. cat. lact.
Aquatic Acute: Cat. 1
Aquatic Chronic: Cat. 1
M-factor acute: 1
M-factor chronic: 1**| Carbamic acid, [2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]methoxy-, methyl ester**Content (W/W): 21.26 %
CAS Number: 175013-18-0Acute Tox.: Cat. 3 (Inhalation - mist)
Skin Corr./Irrit.: Cat. 2
STOT SE: Cat. 3 (irr. to respiratory syst.)
Aquatic Acute: Cat. 1
Aquatic Chronic: Cat. 1
M-factor acute: 100
M-factor chronic: 100**| Residues (petroleum), catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts**Content (W/W): < 3 %
CAS Number: 68425-94-5Eye Dam./Irrit.: Cat. 2
Aquatic Chronic: Cat. 3**| Benzenesulfonic acid, hydroxy-, polymer with formaldehyde, phenol and urea, sodium salt**Content (W/W): < 3 %
CAS Number: 102980-04-1Eye Dam./Irrit.: Cat. 2
Aquatic Chronic: Cat. 3**| 2-methyl-2H-isothiazol-3-one**Content (W/W): < 0.005 %
CAS Number: 2682-20-4Acute Tox.: Cat. 2 (Inhalation - dust)
Acute Tox.: Cat. 3 (oral)
Acute Tox.: Cat. 3 (dermal)
Skin Corr./Irrit.: Cat. 1B
Eye Dam./Irrit.: Cat. 1
Skin Sens.: Cat. 1A
Aquatic Acute: Cat. 1
Aquatic Chronic: Cat. 1
M-factor acute: 10
M-factor chronic: 1**| propane-1,2-diol**Content (W/W): < 10 %
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.

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:

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Suitable extinguishing media:

water spray, carbon dioxide, foam, dry powder

Unsuitable extinguishing media for safety reasons:

water jet

Specific hazards:

carbon monoxide, carbon dioxide, hydrogen chloride, hydrogen fluoride, nitrogen oxides, halogenated compounds, sulfur 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:

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

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:

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: 36 Months

Protect from temperatures below: -5 °C

Changes in the properties of the product may occur if substance/product is stored below indicated temperature for extended periods of time.

Protect from temperatures above: 40 °C

Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

8. Exposure controls and personal protection

Components with occupational exposure limits

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| No substance specific occupational exposure limits known.

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:	beige
Odour:	faint odour, fruity
Odour threshold:	Not determined since harmful by inhalation.
pH value:	approx. 6 - 8 (pH Meter) (CIPAC standard water D, 1 %(m), 20 °C)
crystallization temperature:	approx. -6.7 °C
Boiling point:	approx. 100 °C Information applies to the solvent.
Flash point:	No flash point - Measurement made up to the boiling point.
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:	517 °C	(Directive 92/69/EEC, A.15)
Thermal decomposition:	160 °C , 110 kJ/kg (onset temperature)	(DSC (OECD 113))
	270 °C , 320 kJ/kg (onset temperature)	(DSC (OECD 113))
	410 °C , > 80 kJ/kg (onset temperature)	(DSC (OECD 113))
	Not a substance liable to self-decomposition according to UN transport regulations, class 4.1.	
Explosion hazard:	not explosive	(Directive 92/69/EEC, A.14)
Fire promoting properties:	not fire-propagating	(Directive 2004/73/EC, A.21)
Vapour pressure:	approx. 23 hPa (20 °C) Information applies to the solvent.	
Density:	approx. 1.18 g/cm ³ (20 °C)	(OECD Guideline 109)
Relative vapour density (air):	approx. 0.017 Information based on the main component/s.	
Solubility in water:	dispersible	
Partitioning coefficient n-octanol/water (log Pow):	not applicable	
Viscosity, dynamic:	approx. 35 mPa.s (40 °C, 100 1/s)	(OECD 114)

10. Stability and Reactivity

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Conditions to avoid:

See SDS section 7 - Handling and storage.

Thermal decomposition: 160 °C, 110 kJ/kg (DSC (OECD 113))
(onset temperature)

Thermal decomposition: 270 °C, 320 kJ/kg (DSC (OECD 113))
(onset temperature)

Thermal decomposition: 410 °C, > 80 kJ/kg (DSC (OECD 113))
(onset temperature)

Thermal decomposition: Not a substance liable to self-decomposition according to
UN transport regulations, class 4.1.

Substances to avoid:

strong oxidizing agents, strong bases, strong acids

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.

11. Toxicological Information

Acute toxicity

Assessment of acute toxicity:

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

Experimental/calculated data:

LD50 rat (oral): > 50 - < 300 mg/kg (OECD Guideline 423)

LC50 rat (by inhalation): 2.81 mg/l 4 h (OECD Guideline 403)

An aerosol was tested.

LD50 rat (dermal): > 5,000 mg/kg (OECD Guideline 402)

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: (OECD Guideline 404)

Serious eye damage/irritation rabbit: (OECD Guideline 405)

Respiratory/Skin sensitization

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Assessment of sensitization:

Sensitization after skin contact possible. The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: 2-methyl-2H-isothiazol-3-one

Experimental/calculated data:

guinea pig: skin sensitizing (OECD Guideline 406)

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: Fluxapyroxad

Assessment of carcinogenicity:

Indication of possible carcinogenic effect in animal tests. The effect is caused by an animal specific mechanism that has no human counter part.

Reproductive toxicity

Assessment of reproduction toxicity:

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

Information on: Fluxapyroxad

Assessment of reproduction toxicity:

The results of animal studies gave no indication of a fertility impairing effect. May cause harm to children via breast-feeding.

Developmental toxicity

Assessment of teratogenicity:

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

Specific target organ toxicity (single exposure):

Assessment of STOT single:

Causes temporary irritation of the respiratory tract.

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: Fluxapyroxad

Assessment of repeated dose toxicity:

Adaptive effects were observed after repeated exposure in animal studies.

Information on: pyraclostrobin (ISO); methyl N-{2-[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxymethyl}phenyl}(N-methoxy)carbamate

Assessment of repeated dose toxicity:

After repeated exposure the prominent effect is local irritation. The substance may cause damage to the olfactory epithelium after repeated inhalation.

Aspiration hazard

No aspiration hazard expected.

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

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) 0.032 mg/l, *Oncorhynchus mykiss* (OECD 203; ISO 7346; 92/69/EEC, C.1, static)

Aquatic invertebrates:

EC50 (48 h) 0.068 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)

Aquatic plants:

EC50 (72 h) 3.56 mg/l (growth rate), *Pseudokirchneriella subcapitata* (OECD Guideline 201, static)

EC10 (72 h) 0.44 mg/l (growth rate), *Pseudokirchneriella subcapitata* (OECD Guideline 201, static)

Mobility

Assessment transport between environmental compartments:

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

Information on: Fluxapyroxad

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: pyraclostrobin (ISO); methyl N-{2-[1-(4-chlorophenyl)-1H-pyrazol-3-yloxymethyl]phenyl}(N-methoxy)carbamate

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: Fluxapyroxad

Assessment biodegradation and elimination (H₂O):

Not readily biodegradable (by OECD criteria).

Information on: pyraclostrobin (ISO); methyl N-{2-[1-(4-chlorophenyl)-1H-pyrazol-3-yloxymethyl]phenyl}(N-methoxy)carbamate

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: Fluxapyroxad

Bioaccumulation potential:

Bioconcentration factor: 36 - 37 (28 d), *Lepomis macrochirus* (OECD-Guideline 305)

Does not accumulate in organisms.

Information on: pyraclostrobin (ISO); methyl N-{2-[1-(4-chlorophenyl)-1H-pyrazol-3-yloxymethyl]phenyl}(N-methoxy)carbamate

Bioaccumulation potential:

Bioconcentration factor: 379 - 507, *Oncorhynchus mykiss* (OECD-Guideline 305)

Accumulation in organisms is not to be expected.

Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control.

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13. Disposal Considerations

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. Transport Information

Domestic transport:

Hazard class: 6.1
Packing group: III
ID number: UN 2902
Hazard label: 6.1, EHSM
Proper shipping name: PESTICIDE, LIQUID, TOXIC, N.O.S. (contains PYRACLOSTROBIN, FLUXAPYROXAD)

Further information

Hazchem Code:2X

IERG Number:34

Sea transport

IMDG

Hazard class: 6.1
Packing group: III
ID number: UN 2902
Hazard label: 6.1, EHSM
Marine pollutant: YES
Proper shipping name: PESTICIDE, LIQUID, TOXIC, N.O.S. (contains PYRACLOSTROBIN, FLUXAPYROXAD)

Air transport

IATA/ICAO

Hazard class: 6.1
Packing group: III
ID number: UN 2902
Hazard label: 6.1
Proper shipping name: PESTICIDE, LIQUID, TOXIC, N.O.S. (contains PYRACLOSTROBIN, FLUXAPYROXAD)

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

Regulation: Not evaluated
Shipment approved: Not evaluated

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Pollution name:	Not evaluated
Pollution category:	Not evaluated
Ship Type:	Not evaluated

15. Regulatory Information

Other regulations

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

16. Other Information

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

Repr.	Reproductive toxicity
Aquatic Acute	Hazardous to the aquatic environment - acute
Aquatic Chronic	Hazardous to the aquatic environment - chronic
Acute Tox.	Acute toxicity
Skin Corr./Irrit.	Skin corrosion/irritation
STOT SE	Specific target organ toxicity — single exposure
Eye Dam./Irrit.	Serious eye damage/eye irritation
Skin Sens.	Skin sensitization

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.