

Helaian Data Keselamatan

Safety data sheet

Mukasurat (Page): 1/20

BASF Helaian Data Keselamatan (BASF Safety data sheet)

Tarikh / Disemak (Date / Revised): 14.04.2023

Versi (Version): 8.2

Produk (Product): **Vitamin E-Acetate (DL-alpha-tocopheryl acetate)**

(30041054/SDS_GEN_MY/MS)

Tarikh cetakan (Date of print): 19.10.2025

1. Pengenalan bahan kimia dan pembekal

Vitamin E-Acetate (DL-alpha-tocopheryl acetate)

Nama bahan kimia: Vitamin E-Asetat berminyak

Nombor CAS: 7695-91-2

Kegunaan: Bahan tambah makanan haiwan, bahan tambah makanan

Syarikat:

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

Maklumat kecemasan:

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

2. Pengenalan Bahaya

Pengelasan bahan dan campuran:

Tidak memerlukan pengelasan menurut kriteria GHS untuk produk ini.

Unsur label dan pernyataan berjaga-jaga:

Produk tidak memerlukan label amaran bahaya menurut kriteria GHS .

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Bahaya lain yang tidak menyebabkan pengelasan:

Risiko tergelincir yang tinggi disebabkan oleh kebocoran/tumpahan produk.

3. Komposisi dan Maklumat Mengenai Ramuan Bahan Kimia

Kedadaan kimia

3,4-Dihidro-2,5,7,8-tetrametil-2-(4,8,12-trimetiltridekil)-2H-benzopiran-6-il asetat (Kandungan (berat/berat): $\geq 96\%$ - $\leq 100\%$)

Nombor CAS: 7695-91-2

Tiada bahaya khusus yang diketahui.

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: Simptom dan/atau kesan tidak diketahui setakat ini

Nota kepada doktor:

Rawatan: Rawatan gejala (nyahcemar, fungsi utama).

5. Langkah-Langkah Pemadaman Kebakaran

Bahan pemadam yang sesuai:

semburan air, karbon dioksida, serbuk kering, busa tahan-alkohol

Alat memadam yang tidak sesuai untuk tujuan keselamatan:

pancutan air

Bahaya tertentu:

wap yang merbahaya, karbon oksida

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

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Peralatan perlindungan khusus:

Gunakan alat pernafasan serba lengkap.

Maklumat lanjut:

Jangan semburkan air terus ke arah api, produk akan mengapung dan boleh Lupuskan sisa kebakaran dan air pemadam api yang tercemar menurut peraturan rasmi. Sejukkan bekas yang berbahaya dengan semburan air.

6. Langkah-Langkah Pelepasan Tidak Sengaja

Perlindungan diri, kelengkapan pelindung dan tatacara kecemasan:

Gunakan pakaian pelindung diri. Maklumat berhubung dengan langkah pencegahan diri lihat bahagian 8.

Langkah berjaga-jaga untuk alam sekitar:

Jangan lepaskan ke dalam parit/air permukaan/air tanah.

Kaedah pembersihan atau penyerapan:

Bagi sejumlah kecil: Bendung dengan bahan penyerap (contohnya pasir, gel silika, pengikat asid, pengikat serba guna, habuk gergaji).

Bagi sejumlah besar: Bina benteng tumpahan. Pam produk.

Lupuskan bahan yang diserap mengikut peraturan.

Maklumat tambahan: Risiko tergelincir yang tinggi disebabkan oleh kebocoran/tumpahan produk.

7. Pengendalian dan Penyimpanan

Pengendalian

Tiada langkah khusus diperlukan dengan syarat produk digunakan dengan betul.

Perlindungan terhadap kebakaran dan letupan:

Ambil langkah berjaga-jaga terhadap luahan statik. Jauhkan dari semua sumber pencucuhan: haba, percikan api, nyalaan terbuka.

Penyimpanan

Maklumat lanjut tentang keadaan penyimpanan: Bekas hendaklah disimpan tertutup rapat di tempat yang kering. Lindungi daripada haba.

8. Kawalan pendedahan dan perlindungan diri

Komponen dengan parameter kawalan tempat kerja

Tiada had pendedahan pekerjaan tertentu yang diketahui.

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Peralatan perlindungan peribadi

Perlindungan pernafasan:

Perlindungan pernafasan jika berlaku pelepasan wap/aerosol. Penapis zarah jenis kecekapan sederhana untuk zarah pepejal dan cecair (misalnya EN 143 atau 149, Jenis P2 atau FFP2)

Perlindungan tangan:

Sarung tangan pelindung kalis kimia (EN ISO 374-1)

Perlindungan mata:

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

Perlindungan badan:

Perlindungan badan mestilah dipilih berdasarkan tahap aktiviti dan pendedahan.

Langkah kebersihan dan keselamatan am:

Kendalikan mengikut amalan kesihatan dan keselamatan industri yang baik. Disyorkan memakai pakaian kerja yang tertutup. Jangan makan, minum, merokok atau menggunakan tembakau di tempat kerja. Tangan dan/atau muka hendaklah dibasuh sebelum rehat dan setelah tamat waktu bekerja. Simpan pakaian kerja secara berasingan.

9. Sifat Fizikal dan Kimia

Bentuk:	berminyak	
Warna:	tanpa warna ke kuning jingga	
Bau:	hampir tiada bau	
nilai pH:	tidak terlarut	
takat lebur:	< -20 °C	
takat didih:	Kajian secara saintifiknya tidak wajar.	
	(1,013 hPa)	
	Penguraian bahan / produk tidak ditentukan., Kajian secara saintifiknya tidak wajar.	
Takat kilat:	257 °C	(ISO 2719, cawan tertutup)
Kemudahbakaran (pepejal/gas):	tidak mudah terbakar	(diterbitkan daripada takat kilat)
Had letupan bawah:	Untuk cecair tiada kaitan untuk pengelasan dan pelabelan., Had letupan bawah mungkin 5 - 15 °C dibawah takat kilat.	
Had letupan atas:	Untuk cecair tiada kaitan untuk pengelasan dan pelabelan.	
Suhu pencucuhan:	382 °C	(DIN EN 14522)
Penguraian terma:	> 430 °C	(DSC (DIN 51007))

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pencucuhan sendiri:	Berdasarkan ciri strukturnya produk tidak dikelaskan sebagai mencucuh-sendiri.	Jenis ujian: Swanyalaan spontan pada suhu bilik.
Kebolehan swapemanasan sendiri:	Ia bukanlah bahan yang mampu pemanasan spontan. Tidak diuji disebabkan takat lebur yang rendah.	
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:	< 0.000001 hPa (25 °C)	(dikira)
Kepekatan:	0.98 g/cm ³ (20 °C) Data penulisan.	
Ketumpatan wap relatif (udara):	dianggarkan 16 (20 °C) Lebih berat daripada udara	(dikira)
Keterlarutan dalam air:	terlarut sangat sedikit < 0.8 mg/l (20 °C)	
Pekali petakan n-oktanol/air (log Pow):	12.25 (25 °C)	(dikira)
Tegangan permukaan:	Berdasarkan struktur kimia, aktiviti permukaan adalah tidak dijangka.	
Kelikatan, kinematik:	5,706 mm ² /s (20 °C)	(OECD 114)
	701 mm ² /s (40 °C)	(OECD 114)
Jisim molar:	472.75 g/mol	

10. Kestabilan dan Kereaktifan

Keadaan yang perlu dielakkan:

Elakkan pancaran terus matahari. Elakkan haba Lihat MSDS bahagian 7 - Pengendalian dan Penyimpanan.

Penguraian terma: > 430 °C (DSC (DIN 51007))

Bahan yang perlu dielakkan:

alkali kuat, agen pengoksida yang kuat

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Kakisan kepada logam: Tiada kesan mengakis pada logam

Tindak balas berbahaya:

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

Bahan penguraian berbahaya:

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

Kereaktifan:

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

Kestabilan kimia:

Produk adalah stabil jika disimpan dan dikendalikan sebagaimana

11. Maklumat Toksikologi

Ketoksikan akut

Penilaian ketoksikan akut:

Tidak toksik selepas sekali ditelan. Tidak toksik selepas sekali terkena kulit

Data eksperimen/dikira:

LD50 tikus (melalui mulut): > 10,000 mg/kg (Ujian BASF)

(melalui penyedutan):Kajian tidak diperlukan disebabkan oleh pertimbangan tentang pendedahan.

LD50 tikus (dermal): > 3,000 mg/kg

Kerengsaan

Penilaian kesan merengsa:

Tidak merengsakan kulit. Tidak merengsakan mata.

Data eksperimen/dikira:

Kakisan/Kerengsaan kulit arnab: tidak merengsa (Garis panduan OECD 404)

Kerosakkan/kerengsaan mata yang serius arnab: tidak merengsa (Garis panduan OECD 405)

Pemekaan pernafasan/kulit

Penilaian pemekaan:

Kesan pemekaan kulit tidak diperhatikan dalam kajian haiwan.

Data eksperimen/dikira:

Ujian alahan-foto marmut: Tidak memeka

Kemutagenan sel germa

Penilaian kemutagenan:

Tiada kesan mutagen ditemui dalam pelbagai ujian dengan bakteria dan mamalia.

Kekarsinogenan

Penilaian kekarsinogenan:

Dalam kajian haiwan jangka panjang yang bahan telah diberikan dalam dos

Ketoksikan pembiakan

Penilaian ketoksikan pembiakan:

Keputusan kajian haiwan tidak menunjukkan kesan gangguan kesuburan.

Ketoksikan perkembangan

Penilaian keteratogenan:

Tiada petunjuk kesan ketoksikan/teratogen diperhatikan dalam kajian haiwan.

Ketoksikan khusus organ sasaran (sekali pendedahan):

Penilaian sekali STOT:

Berdasarkan data yang ada, kriteria pengelasan tidak dipenuhi.

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

Penilaian ketoksikan dos berulang:

Pengambilan bahan dengan mulut secara berulang tidak menyebabkan kesan

Bahaya penyedutan

Tiada bahaya penyedutan dijangka.

12. Maklumat Ekologi

Keekotoksikan

Penilaian ketoksikan akuatik:

Ada kemungkinan besar produk tidak memudaratkan organisma akuatik secara akut. Tiada kesan toksik dalam julat keterlarutan. Perencatan aktiviti degradasi di dalam enap cemar yang diaktifkan tidak dijangka akan berlaku semasa bahan berkepekatan rendah dimasukkan kedalam loji rawatan biologi.

Ketoksikan kepada ikan:

LC50 (96 h) > 11 mg/l, *Oncorhynchus mykiss* (Garis panduan OECD 203, statik)

Penyataan kesan toksik berkaitan dengan kepekatan yang ditentukan secara analisis. Tiada kesan toksik dalam julat keterlarutan.

Invertebrat air:

EC50 (48 h) > 20.6 mg/l, *Daphnia magna* (Garis panduan OECD 202, Bahagian 1, statik)

Penyataan kesan toksik berkaitan dengan kepekatan yang ditentukan secara analisis. Tiada kesan toksik dalam julat keterlarutan.

Tumbuhan akuatik:

EC50 (72 h) > 27.8 mg/l (kadar pertumbuhan), *Pseudokirchneriella subcapitata* (Garis panduan OECD 201, statik)

Penyataan kesan toksik berkaitan dengan kepekatan yang ditentukan secara analisis. Tiada kesan toksik dalam julat keterlarutan.

Mikroorganisma/Kesan ke atas enap cemar diaktifkan:

EC20 (30 min) > 927 mg/l, Enap cemar diaktifkan, domestik (DIN EN ISO 8192, akuatik)

Perincian kesan toksik berkaitan dengan kepekatan nominal.

Ketoksikan kronik kepada ikan:

Tiada kesan kepekatan yang diperhatikan (28 hari) > 100 mg/l, *Oncorhynchus mykiss* (, semistatik)

Ketoksikan kronik kepada invertebrata akuatik:

Kajian secara saintifiknya tidak wajar.

Penilaian ketoksikan daratan:

Tiada data diperolehi.

Mobiliti

Penilaian pengangkutan di antara bahagian di persekitaran:

Bahan akan tersejat dengan perlahan-lahan ke atmosfera daripada permukaan air.

Penjerapan kepada fasa tanah pejal dijangka

Keterusan dan boleh keterdegradasikan

Maklumat penyingkiran:

30 - 40 % BOD bagi ThOD (28 hari) (OECD 301F; ISO 9408; 92/69/EEC, C.4-D) (aerobik, Enap cemar diaktifkan, domestik)

Penilaian kestabilan dalam air:

Jika terkena air bahan akan menghidrolisis dengan lambat.

Maklumat tentang Kestabilan dalam Air (Hidrolisis):

$t_{1/2}$ 326 hari (25 °C, nilai pH 7), (dikira, pH 7)

Potensi Biotumpukan

Penilaian potensi bioakumulasi:

Tidak dijangka terakumulasi dalam organisma.

13. Maklumat Pelupusan

Patuhi keperluan undang-undang negara dan tempatan.

Pembungkusan tercemar:

Bungkusan yang tidak tercemar boleh diguna semula.

Bungkusan yang tidak boleh dibersihkan hendaklah dilupuskan dengan cara yang sama dengan kandungannya.

Gunakan bungkusan untuk kitar semula hanya apabila bungkusan benar-benar kosong.

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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 Tidak dinilai

diluluskan:

Nama pencemaran: Tidak dinilai

Kategori pencemaran: Tidak dinilai

Jenis Kapal: Tidak dinilai

15. Maklumat Pengawalseliaan

Institut Pembersihan Amerika (ACI) Inventori Ramuan Produk Pembersihan (US)

ACI Ingredient Inventory (US) (09 2012)

tersenarai

Institut Pembersihan Amerika (ACI) Inventori Ramuan Produk Pembersihan (US)

ACI Ingredient Inventory (US) (09 2012)

tersenarai

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

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

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16. Maklumat lain

Tarikh Penyediaan / Tarikh Penyemakan: 14.04.2023

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 Pekerja

OSHA - Akta Keselamatan dan Kesihatan Pekerja

STOT - Ketoksikan Organ Sasaran Khusus

Sebarang tujuan penggunaan lain hendaklah dibincangkan dengan pengeluar. Kadar perlindungan keselamatan untuk pekerjaan yang berkenaan hendaklah dipatuhi.

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

Vitamin E-Acetate (DL-alpha-tocopheryl acetate)

Chemical name: Vitamin E acetate

CAS Number: 7695-91-2

Use: feed additive(s), food additive(s)

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:

No need for classification according to GHS criteria for this product.

Label elements and precautionary statement:

The product does not require a hazard warning label in accordance with GHS criteria.

Other hazards which do not result in classification:

High risk of slipping due to leakage/spillage of product.

3. Composition/information on ingredients

Chemical nature

Vitamin E Acetate (Content (W/W): $\geq 96\%$ - $\leq 100\%$)

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No particular hazards known.

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:

Symptoms: (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, carbon dioxide, dry powder, alcohol-resistant foam

Unsuitable extinguishing media for safety reasons:

water jet

Specific hazards:

harmful vapours, carbon oxides

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Special protective equipment:

Wear a self-contained breathing apparatus.

Further information:

Do not spray water directly on fire, product will float and could be reignited on surface of water.

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Cool endangered containers with water-spray.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Use personal protective clothing. Information regarding personal protective measures, see section 8.

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Environmental precautions:

Do not discharge into drains/surface waters/groundwater.

Methods for cleaning up or taking up:

For small amounts: Contain with absorbent material (e.g. sand, silica gel, acid binder, general purpose binder, sawdust).

For large amounts: Dike spillage. Pump off product.

Dispose of absorbed material in accordance with regulations.

Additional information: High risk of slipping due to leakage/spillage of product.

7. Handling and Storage

Handling

No special measures necessary provided product is used correctly.

Protection against fire and explosion:

Take precautionary measures against static discharges. Avoid all sources of ignition: heat, sparks, open flame.

Storage

Further information on storage conditions: Containers should be stored tightly sealed in a dry place.

Protect against heat.

8. Exposure controls and personal protection

Components with occupational exposure limits

No substance specific occupational exposure limits known.

Personal protective equipment

Respiratory protection:

Respiratory protection in case of vapour/aerosol release. Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

Hand protection:

Chemical resistant protective gloves (EN ISO 374-1)

Eye protection:

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

Body protection:

Body protection must be chosen based on level of activity and exposure.

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended. No eating, drinking, smoking or tobacco use at the place of work. Hands

and/or face should be washed before breaks and at the end of the shift. Store work clothing separately.

9. Physical and Chemical Properties

Form:	oily	
Colour:	colourless to amber	
Odour:	almost odourless	
pH value:	not soluble	
Melting point:	< -20 °C Study scientifically not justified.	
Boiling point:	(1,013 hPa) The substance / product decomposes therefore not determined., Study scientifically not justified.	
Flash point:	257 °C	(ISO 2719, closed cup)
Flammability (solid/gas):	hardly combustible	(derived from flash point)
Lower explosion limit:	For liquids not relevant for classification and labelling., The lower explosion point may be 5 - 15 °C below the flash point.	
Upper explosion limit:	For liquids not relevant for classification and labelling.	
Ignition temperature:	382 °C	(DIN EN 14522)
Thermal decomposition:	> 430 °C	(DSC (DIN 51007))
Self ignition:	Based on its structural properties the product is not classified as self- igniting.	Test type: Spontaneous self- ignition at room-temperature.
Self heating ability:	It is not a substance capable of spontaneous heating. Not tested on account of the low melting-point.	
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:	< 0.000001 hPa (25 °C)	(calculated)

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(30041054/SDS_GEN_MY/MS)

Tarikh cetakan (Date of print): 19.10.2025

Density:	0.98 g/cm ³ (20 °C) Literature data.	
Relative vapour density (air):	approx. 16 (20 °C) Heavier than air.	(calculated)
Solubility in water:	sparingly soluble < 0.8 mg/l (20 °C)	
Partitioning coefficient n-octanol/water (log Pow):	12.25 (25 °C)	(calculated)
Surface tension:	Based on chemical structure, surface activity is not to be expected.	
Viscosity, kinematic:	5,706 mm ² /s (20 °C)	(OECD 114)
	701 mm ² /s (40 °C)	(OECD 114)
Molar mass:	472.75 g/mol	

10. Stability and Reactivity

Conditions to avoid:

Avoid direct sunlight. Avoid heat. See SDS section 7 - Handling and storage.

Thermal decomposition: > 430 °C (DSC (DIN 51007))

Substances to avoid:

strong alkalis, strong oxidizing agents

Corrosion to metals: No corrosive effect on metal.

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

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Assessment of acute toxicity:

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

Experimental/calculated data:

LD50 rat (oral): > 10,000 mg/kg (BASF-Test)

(by inhalation): Study not necessary due to exposure considerations.

LD50 rat (dermal): > 3,000 mg/kg (similar to OECD guideline 402)

Irritation

Assessment of irritating effects:

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

Experimental/calculated data:

Skin corrosion/irritation rabbit: non-irritant (OECD Guideline 404)

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

Respiratory/Skin sensitization

Assessment of sensitization:

Skin sensitizing effects were not observed in animal studies.

Experimental/calculated data:

photo-allergy test guinea pig: Non-sensitizing.

Germ cell mutagenicity

Assessment of mutagenicity:

No mutagenic effect was found in various tests with bacteria and mammals.

Carcinogenicity

Assessment of carcinogenicity:

In long-term animal studies in which the substance was given in high doses by feed, a carcinogenic effect was not observed.

Reproductive toxicity

Assessment of reproduction toxicity:

The results of animal studies gave no indication of a fertility impairing effect.

Developmental toxicity

Assessment of teratogenicity:

No indications of a developmental toxic / teratogenic effect were seen in animal studies.

Specific target organ toxicity (single exposure):

Assessment of STOT single:

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

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

Assessment of repeated dose toxicity:

Repeated oral uptake of the substance did not cause substance-related effects.

Aspiration hazard

No aspiration hazard expected.

12. Ecological Information**Ecotoxicity**

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms. No toxic effects occur within the range of solubility. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Toxicity to fish:

LC50 (96 h) > 11 mg/l, *Oncorhynchus mykiss* (OECD Guideline 203, static)

The statement of the toxic effect relates to the analytically determined concentration. No toxic effects occur within the range of solubility.

Aquatic invertebrates:

EC50 (48 h) > 20.6 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)

The statement of the toxic effect relates to the analytically determined concentration. No toxic effects occur within the range of solubility.

Aquatic plants:

EC50 (72 h) > 27.8 mg/l (growth rate), *Pseudokirchneriella subcapitata* (OECD Guideline 201, static)

The statement of the toxic effect relates to the analytically determined concentration. No toxic effects occur within the range of solubility.

Microorganisms/Effect on activated sludge:

EC20 (30 min) > 927 mg/l, activated sludge, domestic (DIN EN ISO 8192, aquatic)

The details of the toxic effect relate to the nominal concentration.

Chronic toxicity to fish:

No observed effect concentration (28 d) > 100 mg/l, *Oncorhynchus mykiss* (OECD Guideline 215, semistatic)

Chronic toxicity to aquatic invertebrates:

Study scientifically not justified.

Assessment of terrestrial toxicity:

No data available.

Mobility

Assessment transport between environmental compartments:

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The substance will slowly evaporate into the atmosphere from the water surface.
Adsorption to solid soil phase is expected.

Persistence and degradability

Elimination information:

30 - 40 % BOD of the ThOD (28 d) (OECD 301F; ISO 9408; 92/69/EEC, C.4-D) (aerobic, activated sludge, domestic)

Assessment of stability in water:

In contact with water the substance will hydrolyse slowly.

Information on Stability in Water (Hydrolysis):

$t_{1/2}$ 326 d (25 °C, pH value 7), (calculated, pH 7)

Bioaccumulation potential

Assessment bioaccumulation potential:

Accumulation in organisms is not to be expected.

13. Disposal Information

Observe national and local legal requirements.

Contaminated packaging:

Uncontaminated packaging can be re-used.

Packs that cannot be cleaned should be disposed of in the same manner as the contents.

Use packages for recycling only when totally empty.

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

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

15. Regulatory Information

American Cleaning Institute (ACI) Cleaning Product Ingredient Inventory (US)

ACI Ingredient Inventory (US) (09 2012)

listed

American Cleaning Institute (ACI) Cleaning Product Ingredient Inventory (US)

ACI Ingredient Inventory (US) (09 2012)

listed

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

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

Date of Preparation / Date of Revision: 14.04.2023

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.

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

Any other intended applications should be discussed with the manufacturer. Corresponding occupational protection measurements must be followed.

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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.