

Helaian Data Keselamatan

Safety data sheet

Mukasurat (Page): 1/27

BASF Helaian Data Keselamatan (BASF Safety data sheet)

Tarikh / Disemak (Date / Revised): 23.04.2025

Versi (Version): 13.1

Produk (Product): **2-ETHYLHEXANOL**

(30034817/SDS_GEN_MY/MS)

Tarikh cetakan (Date of print): 13.10.2025

1. Pengenalan bahan kimia dan pembekal

2-ETHYLHEXANOL

Nama bahan kimia: 2-etilheksan-1-ol

Nombor CAS: 104-76-7

Kegunaan: Kimia

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
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Maklumat kecemasan:

Nombor Kecemasan Kebangsaan
+603 7612 1999
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2. Pengenalan Bahaya

Pengelasan bahan dan campuran:
Toks. Akut 4 (Penyedutan - kabus)
Kreng. Kulit 2
Kreng. Mata 2
STOT SE 3 (kerengsaan pada sistem pernafasan)
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:

Piktogram:



Kata Isyarat:

Amaran

Pernyataan Bahaya:

| | |
|------|---|
| H319 | Menyebabkan kerengsaan mata yang serius. |
| H315 | Menyebabkan kerengsaan kulit. |
| H332 | Memudaratkan jika tertedut. |
| H335 | Boleh menyebabkan kerengsaan saluran pernafasan. |
| H412 | Memudaratkan kepada hidupan akuatik dengan kesan yang berpanjangan. |

Pernyataan Berjaga-jaga (Pencegahan):

| | |
|------|--|
| P271 | Gunakan hanya di luar bangunan atau di dalam kawasan yang dialihudarkan dengan baik. |
| P280 | Pakai sarung tangan perlindungan dan perlindungan mata atau perlindungan muka. |
| P261 | Elakkan daripada menyedut kabut. |
| P273 | Elakkan pelepasan bahan ke persekitaran. |
| P261 | Elak daripada menghirup kabus atau wap atau semburan. |
| P264 | Basuh bahagian badan yang tercemar dengan sepenuhnya selepas pengendalian. |

Pernyataan Berjaga-jaga (Tindak Balas):

| | |
|--------------------|---|
| P312 | Hubungi PUSAT RACUN atau pakar perubatan jika anda berasa tidak sihat. |
| P305 + P351 + P338 | JIKA TERKENA MATA: Bilas berhati-hati dengan air selama beberapa minit. Tanggalkan kanta lekup, jika ada dan dapat dilakukan dengan mudah. Teruskan membilas. |
| P304 + P340 | JIKA TERSEDUT: Pindahkan mangsa ke kawasan berudara segar dan pastikan mangsa selesa bernafas. |
| P332 + P313 | JIKA TERKENA KULIT: Basuh dengan sabun dan air yang banyak. |
| P337 + P313 | Jika kerengsaan mata berterusan: Dapatkan nasihat/rawatan perubatan. |
| P362 + P364 | Tanggalkan pakaian yang tercemar dan basuh sebelum menggunakannya semula. |

Pernyataan Berjaga-jaga (Penyimpanan):

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

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Pernyataan Berjaga-jaga (Pelupusan):

P501

Buangkan kandungan dan bekas ke tempat pengumpulan bahan sisa
merbahaya atau khas.

Bahaya lain yang tidak menyebabkan pengelasan:

Jika berkenaan, maklumat yang diberikan dalam bahagian ini tentang bahaya lain tidak
menyebabkan pengelasan tetapi mungkin menyumbang kepada bahaya bahan atau campuran
secara keseluruhan.

Lihat seksyen 12 - Keputusan PBT dan Penilaian vPvB

3. Komposisi dan Maklumat Mengenai Ramuan Bahan Kimia

Keadaan kimia

2-ethylhexan-1-ol (Kandungan (berat/berat): > 99.5 %)

Nombor CAS: 104-76-7

Ramuan berbahaya

2-ethylhexan-1-ol

Kandungan (berat/berat): > 99.5 % Toks. Akut 4 (Penyedutan - kabus)

- <= 100 %

Kreng. Kulit 2

Nombor CAS: 104-76-7

Kreng. Mata 2

STOT SE 3 (irr. to respiratory syst.)

Akuatik Kronik 3

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:

Basuh bersih-bersih dengan sabun dan air.

Apabila terkena mata:

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

Apabila tertelan:

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

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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.

Nota kepada doktor:

Bahaya: Maklumat, iaitu maklumat tambahan mengenai simptom dan kesan boleh termasuk di dalam fasa palabelan GHS yang tersedia ada dalam Seksyen 2 dan di dalam penaksiran Toksikologi yang tersedia ada dalam Seksyen 11. Simptom dan/atau kesan tidak diketahui setakat ini

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

5. Langkah-Langkah Pemadaman Kebakaran

Bahan pemadam yang sesuai:

serbuk kering, semburan air, karbon dioksida, busa

Alat memadam yang tidak sesuai untuk tujuan keselamatan:

pancutan air

Maklumat tambahan:

Gunakan langkah memadam kebakaran yang sesuai dengan persekitaran.

Bahaya tertentu:

Cecair mudah terbakar Sejukkan bekas yang berbahaya dengan semburan air. Lihat MSDS bahagian 7 - Pengendalian dan Penyimpanan.

Peralatan perlindungan khusus:

Gunakan alat pernafasan serba lengkap. Alat kelengkapan perlindungan khas bagi pemadam kebakaran.

Maklumat lanjut:

Kakitangan yang tidak diperlukan hendaklah mengosongkan kawasan. Padamkan api dari jarak yang maksimum.

Memperluas pelaksanaan langkah-langkah pemadaman api ke kawasan sekitar. Lupuskan sisa kebakaran dan air pemadam api yang tercemar menurut peraturan rasmi.

6. Langkah-Langkah Pelepasan Tidak Sengaja

Perlindungan diri, kelengkapan pelindung dan tatacara kecemasan:

Kendalikan mengikut amalan kesihatan dan keselamatan industri yang baik. Jauhkan dari semua sumber pencucuhan: haba, percikan api, nyalaan terbuka. Gunakan alat antistatik.

Langkah berjaga-jaga untuk alam sekitar:

Pelepasan ke alam sekitar mestilah dielakkan.

Kaedah pembersihan atau penyerapan:

Kutip dengan alat yang sesuai dan lupuskan. Bahan yang tumpah mestilah dibendung, dipejalkan, dan diletakkan didalam bekas yang sesuai untuk pelupusan. Lupuskan bahan yang diserap mengikut peraturan.

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

Pembebasan bahan/produk boleh menyebabkan kebakaran atau letupan. Tutup atau hentikan sumber kebocoran. Tutup atau hentikan kebocoran bahan/produk dalam keadaan yang selamat.

Bungkus di dalam bekas yang bertutup rapat untuk dilupuskan.

7. Pengendalian dan Penyimpanan

Pengendalian

Kendalikan mengikut amalan kesihatan dan keselamatan industri yang baik.

Perlindungan terhadap kebakaran dan letupan:

Jauhkan dari semua sumber pencucuhan: haba, percikan api, nyalaan terbuka. Bumikan semua kelengkapan pemindahan dengan betul untuk mengelakkan nyahcas elektrostatik.

Penyimpanan

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

Simpan di bawah nitrogen kering. Meliputi dengan nitrogen jika berkas tersebut dibuka.

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 gas bagi gas/wap sebatian organik (takat didih >65°C, cth EN 14387 Jenis A)

Perlindungan tangan:

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

Bahan yang sesuai juga sekiranya terkena produk secara berpanjangan dan langsung. (Syor: Indeks perlindungan 6, bersamaan > 480 minit tempoh penelapan menurut EN ISO 374-1):

getah nitril (NBR) - 0.4 mm ketebalan salutan

Arahan penggunaan pengilang hendaklah dipatuhi kerana jenisnya yang pelbagai.

Nota tambahan : Spesifikasi adalah berdasarkan ujian –ujian, data penerbitan dan maklumat dari pengeluar sarung tangan atau diambil yang serupa secara analogi. Oleh sebab banyak keadaan yang perlu dipertimbangkan (misalnya suhu), perlulah diambil kira, bahawa secara praktikalnya tempoh penggunaan sarung tangan pelindung kimia mungkin lebih pendek daripada tempoh penelapan yang ditentukan menurut ujian.

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)

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Langkah kebersihan dan keselamatan am:

Kendalikan mengikut amalan kesihatan dan keselamatan industri yang baik. Memakai pakaian kerja yang tertutup diperlukan sebagai tambahan kepada kelengkapan perlindungan diri yang dinyatakan.

9. Sifat Fizikal dan Kimia

| | | |
|------------------------------------|--|--|
| Bentuk: | cecair | |
| Warna: | Tidak berwarna | |
| Bau: | seperti alkohol | |
| Ambang bau: | tidak ditentukan | |
| nilai pH: | neutral, keterlarutan rendah | |
| takat lebur: | -89 °C | (ASTM D97) |
| takat didih: | 186 °C (1,013 hPa) | (Garis panduan OECD 103) |
| Takat kilat: | 75 °C | (cawan tertutup) |
| Tahap penyejatan: | Nilai boleh dianggarkan berdasarkan Pemalar Hukum Henry atau tekanan wap. | |
| Kemudahbakaran (pepejal/gas): | Cecair boleh terbakar. | (diterbitkan daripada takat kilat) |
| Had letupan bawah: | 0.88 %(V) Data penulisan., Had letupan bawah mungkin 5 - 15 °C dibawah takat kilat. | |
| Had letupan atas: | Untuk cecair tiada kaitan untuk pengelasan dan pelabelan. | |
| Suhu pencucuhan: | 280 °C | (Arahan 92/69/EEC, A.15) |
| Penguraian terma: | Tiada penguraian jika disimpan dan dikendalikan seperti yang ditetapkan/dinyatakan. | |
| pencucuhan sendiri: | Tidak swacucuh. | Jenis ujian: Swanyalaan spontan pada suhu bilik. |
| Kebolehan swapemanasan sendiri: | Ia bukanlah bahan yang mampu pemanasan spontan. | |
| Bahaya letupan: | Berdasarkan struktur kimia tiada petunjuk ciri-ciri mudah meletup. | (lain) |
| Sifat yang menggalakkan kebakaran: | Berdasarkan sifat strukturnya produk ini tidak dikelasifikasikan sebagai pengoksida. | (lain) |
| Tekanan Wap: | 0.93 hPa (20 °C) | (OECD Guideline 104) |

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| | | |
|---|---|--------------------------|
| Kepekatan: | 0.832 g/cm ³ (20 °C) | (ASTM D4052) |
| ketumpatan relatif: | 0.832 (20 °C) | (ASTM D4052) |
| Ketumpatan wap relatif (udara): | 4.49 (20 °C) Lebih berat daripada udara | (dikira) |
| Keterlarutan dalam air: | 0.9 g/l (20 °C) | |
| Pekali petakan n-oktanol/air (log Pow): | 2.9 (25 °C; nilai pH: 7) | (Garis panduan OECD 117) |
| Penjerapan/air-tanah: | KOC: 35.28; log KOC: 1.55 | (dikira) |
| Tegangan permukaan: | 47 mN/m (20 °C; 0.81 g/l) | (Garis panduan OECD 115) |
| Kelikatan, dinamik: | 9.845 mPa.s (20 °C) | |
| Jisim molar: | 130.23 g/mol | |

10. Kestabilan dan Kereaktifan

Keadaan yang perlu dielakkan:
Jauhkan dari sumber pencucuhan.

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

Bahan yang perlu dielakkan:
agen pengoksida yang kuat

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:
Apabila dipanaskan ia boleh mengeluarkan wasap mudah tercucuh.

Kestabilan kimia:
Produk adalah stabil jika disimpan dan dikendalikan sebagaimana

11. Maklumat Toksikologi

Ketoksikan akut

Penilaian ketoksikan akut:

Ketoksikan yang rendah selepas sekali tertelan. Tidak toksik selepas sekali terkena kulit Ketoksikan sederhana selepas pendedahan jangka-pendek.

Data eksperimen/dikira:

LD50 tikus (melalui mulut): 2,047 mg/kg

LC50 tikus (melalui penyedutan): > 0,89 - <= 5,3 mg/l 4 h
Aerosol diuji

LD50 tikus (dermal): > 3,000 mg/kg (Garis panduan OECD 402)

Kerengsaan

Penilaian kesan merengsa:

Sentuhan dengan mata boleh menyebabkan kerengsaan. Terkena kulit boleh menyebabkan kerengsaan.

Data eksperimen/dikira:

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

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

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

Pemekaan pernafasan/kulit

Penilaian pemekaan:

Bahan tidak menyebabkan pemekaan kulit pada manusia.

Data eksperimen/dikira:

Ujian Pemaksimuman Manusia manusia: Tidak memeka

Kemutagenan sel germa

Penilaian kemutagenan:

Tiada kesan mutagen ditemui dalam pelbagai ujian dengan mikroorganisma dan kultur sel mamalia. Bahan tidak mutagen dalam kajian dengan mamalia.

Kekarsinogenan

Penilaian kekarsinogenan:

Dalam kajian jangka panjang ke atas tikus dan mencit dimana bahan telah diberikan gavaj, kesan karsinogen tidak diperhatikan.

Ketoksikan pembiakan

Penilaian ketoksikan pembiakan:

Keputusan kajian haiwan tidak menunjukkan kesan gangguan kesuburan. Produk belum diuji. Pernyataan diambil daripada bahan/produk yang mempunyai struktur dan komposisi yang sama.

Ketoksikan perkembangan

Penilaian keteratogenan:

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:

Menyebabkan kerengsaan sementara pada saluran pernafasan.

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

Penilaian ketoksikan dos berulang:

Tiada ketoksikan organ daripada bahan tertentu diperhatikan selepas diberi secara berulang kepada haiwan.

Bahaya penyedutan

Tidak boleh digunakan

12. Maklumat Ekologi**Keekotoksikan**

Penilaian ketoksikan akuatik:

Amat memudaratkan organisma akuatik Memudaratkan kepada organisma akuatik berdasarkan data kajian ketoksikan jangka panjang (kronik). 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) 17.1 mg/l, *Leuciscus idus* (OECD 203; ISO 7346; 84/449/EEC, C.1, Alirkan.)

Invertebrat air:

EC50 (48 h) 39 mg/l, *Daphnia magna* (Arahan 84/449/EEC, C.2, statik)

Kepekatan nominal

Tumbuhan akuatik:

EC50 (72 h) 21.0 mg/l (kadar pertumbuhan), *Scenedesmus subspicatus* (Arahan 88/302/EEC, bahagian C, p. 89)

Kepekatan nominal

EC10 (72 h) 7.41 mg/l (kadar pertumbuhan), *Desmodesmus subspicatus* (Arahan 88/302/EEC, bahagian C, p. 89)

Kepekatan nominal

Mikroorganisma/Kesan ke atas enap cemar diaktifkan:

Tiada data diperolehi.

Ketoksikan kronik kepada ikan:

lain (30 hari) 0.278 mg/l, Brachydanio rerio (OECD Guideline 210, Alirkan.)

Penyataan kesan toksik berkaitan dengan kepekatan yang ditentukan secara analisis.

Ketoksikan kronik kepada invertebrata akuatik:

EC10 (21 hari), 1.53 mg/l, Daphnia magna (Garis panduan OECD 211, semistatik)

Penyataan kesan toksik berkaitan dengan kepekatan yang ditentukan secara analisis.

Penilaian ketoksikan daratan:

Mobiliti

Penilaian pengangkutan di antara bahagian di persekitaran:

Bahan tidak akan menyejat ke atmosfera daripada permukaan air

Penjerapan kepada fasa tanah pejal tidak dijangka

Keterusan dan boleh keterdegradasikan

Maklumat penyingkiran:

79 - 99.9 % BOD bagi ThOD (14 hari) (OECD 301C; ISO 9408; 92/69/EEC, C.4-F) (aerobik, Inokulum megikut keperluan MITI (OECD 301C))

Penilaian kestabilan dalam air:

Tiada data diperolehi.

Maklumat tentang Kestabilan dalam Air (Hidrolisis):

Tiada data diperolehi.

Potensi Biotumpukan

Penilaian potensi bioakumulasi:

Akumulasi yang ketara dalam organisma tidak dijangka.

Potensi Biotumpukan:

Tiada data diperolehi.

Kesan buruk lain

Halogen terikat secara organik boleh terjerap (AOX):

Produk ini tidak mengandungi halogen yang terikat secara organik.

Maklumat tambahan

Nasihat ekotoksikologi lain:

Jangan lepaskan produk ke persekitaran tanpa kawalan.

13. Maklumat Pelupusan

Lupuskan mengikut peraturan kebangsaan, negeri dan tempatan.

Pembungkusan tercemar:

Pelupusan mestilah dijalankan menurut peraturan rasmi.

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: | IBC |
| Penghantaran yang diluluskan: | 1 |
| Nama pencemaran: | Octanol (all isomers) |
| Kategori pencemaran: | Y |
| Jenis Kapal: | 2 |

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) (2017)
Bahan Sokongan Inventori ACI
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.

16. Maklumat lain

Tarikh Penyediaan / Tarikh Penyemakan: 23.04.2025

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 |
| 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 |

BASF Helaian Data Keselamatan (BASF Safety data sheet)

Tarikh / Disemak (Date / Revised): 23.04.2025

Versi (Version): 13.1

Produk (Product): **2-ETHYLHEXANOL**

(30034817/SDS_GEN_MY/MS)

Tarikh cetakan (Date of print): 13.10.2025

| | |
|------------------|---|
| Swareak. B | Bahan kimia swareaktif jenis B |
| Swareak. CD | Bahan kimia swareaktif jenis C dan D |
| Swareak. EF | Bahan kimia swareaktif jenis E dan F |
| Swareak. G | Bahan kimia swareaktif jenis G |
| Cec. Pir. 1 | Cecair piroforik kategori 1 |
| Pep. Pir. 1 | Pepejal piroforik kategori 1 |
| Swapanas. 1 | Bahan kimia swapanasan kategori 1 |
| Swapanas. 2 | Bahan kimia swapanasan kategori 2 |
| Tdk. Bls. Air 1 | Bahan kimia yang, jika terkena air, membebaskan gas mudah terbakar kategori 1 |
| Tdk. Bls. Air 2 | Bahan kimia yang, jika terkena air, membebaskan gas mudah terbakar kategori 2 |
| Tdk. Bls. Air 3 | Bahan kimia yang, jika terkena air, membebaskan gas mudah terbakar kategori 3 |
| Peroks. Org. A | Peroksida organik jenis A |
| Peroks. Org. B | Peroksida organik jenis B |
| Peroks. Org. CD | Peroksida organik jenis C and D |
| Peroks. Org. EF | Peroksida organik jenis E and F |
| Peroks. Org. G | Peroksida organik jenis G |
| Kakis. Log. 1 | Mengakis logam kategori 1 |
| Toks. Akut 1 | Ketoksikan akut kategori 1 |
| Toks. Akut 2 | Ketoksikan akut kategori 2 |
| Toks. Akut 3 | Ketoksikan akut kategori 3 |
| Toks. Akut 4 | Ketoksikan akut kategori 4 |
| Kks. Kulit 1A | Kakisan atau kerengsaan kulit kategori 1A |
| Kks. Kulit 1B | Kakisan atau kerengsaan kulit kategori 1B |
| Kks. Kulit 1C | Kakisan atau kerengsaan kulit kategori 1C |
| Kreng. Kulit 2 | Kakisan atau kerengsaan kulit kategori 2 |
| Kros. Mata 1 | Kerosakan mata atau kerengsaan mata yang serius kategori 1 |
| Kreng. Mata 2 | Kerosakan mata atau kerengsaan mata yang serius kategori 2 |
| Pem. Naf. 1 | Pemekaan pernafasan kategori 1 |
| Pem. Kulit 1 | Pemekaan kulit kategori 1 |
| Muta. 1A | Kemutagenan sel germa kategori 1A |
| Muta. 1B | Kemutagenan sel germa kategori 1B |
| Muta. 2 | Kemutagenan sel germa kategori 2 |
| Kars. 1A | Kekarsinogenan kategori 1A |
| Kars. 1B | Kekarsinogenan kategori 1B |
| Kars. 2 | Kekarsinogenan kategori 2 |
| Pemb. 1A | Ketoksikan pembiakan kategori 1A |
| Pemb. 1B | Ketoksikan pembiakan kategori 1B |
| Pemb. 2 | Ketoksikan pembiakan kategori 2 |
| Laktasi | Kesan ke atas atau melalui penyusuan |
| STOT SE 1 | Ketoksikan organ sasaran khusus - pendedahan tunggal kategori 1 |
| STOT SE 2 | Ketoksikan organ sasaran khusus - pendedahan tunggal kategori 2 |
| STOT SE 3 | Ketoksikan organ sasaran khusus - pendedahan tunggal kategori 3 |
| STOT RE 1 | Ketoksikan organ sasaran khusus - pendedahan berulang kategori 1 |
| STOT RE 2 | Ketoksikan organ sasaran khusus - pendedahan berulang kategori 2 |
| Bhy. Asp. | Bahaya aspirasi kategori 1 |
| Akuatik Akut 1 | Berbahaya kepada persekitaran akuatik – bahaya akut kategori 1 |
| Akuatik Kronik 1 | Berbahaya kepada persekitaran akuatik – bahaya kronik kategori 1 |
| Akuatik Kronik 2 | Berbahaya kepada persekitaran akuatik – bahaya kronik kategori 2 |
| Akuatik Kronik 3 | Berbahaya kepada persekitaran akuatik – bahaya kronik kategori 3 |
| Akuatik Kronik 4 | Berbahaya kepada persekitaran akuatik – bahaya kronik kategori 4 |
| Ozon | Berbahaya bagi lapisan ozon kategori 1 |

BASF Helaian Data Keselamatan (BASF Safety data sheet)

Tarikh / Disemak (Date / Revised): 23.04.2025

Versi (Version): 13.1

Produk (Product): **2-ETHYLHEXANOL**

(30034817/SDS_GEN_MY/MS)

Tarikh cetakan (Date of print): 13.10.2025

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

2-ETHYLHEXANOL

Chemical name: 2-ethylhexan-1-ol

CAS Number: 104-76-7

Use: Chemical

Company:

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

Emergency information:

National emergency number:

+603 7612 1999

International emergency number:

Telephone: +49 180 2273-112

2. Hazard identification

Classification of the substance and mixture:

Acute Tox. 4 (Inhalation - mist)

Skin Irrit. 2

Eye Irrit. 2

STOT SE 3 (irritating to respiratory system)

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:

Pictogram:



Signal Word:

Warning

Hazard Statement:

BASF Helaian Data Keselamatan (BASF Safety data sheet)

Tarikh / Disemak (Date / Revised): 23.04.2025

Versi (Version): 13.1

Produk (Product): **2-ETHYLHEXANOL**

(30034817/SDS_GEN_MY/MS)

Tarikh cetakan (Date of print): 13.10.2025

| | |
|------|--|
| H319 | Causes serious eye irritation. |
| H315 | Causes skin irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H412 | Harmful to aquatic life with long lasting effects. |

Precautionary Statements (Prevention):

| | |
|------|---|
| P271 | Use only outdoors or in a well-ventilated area. |
| P280 | Wear protective gloves and eye protection or face protection. |
| P261 | Avoid breathing mist. |
| P273 | Avoid release to the environment. |
| P261 | Avoid breathing mist or vapour or spray. |
| P264 | Wash contaminated body parts thoroughly after handling. |

Precautionary Statements (Response):

| | |
|--------------------|--|
| P312 | Call a POISON CENTER or physician if you feel unwell. |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P304 + P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P302 + P352 | IF ON SKIN: Wash with plenty of soap and water. |
| P332 + P313 | If skin irritation occurs: Get medical attention. |
| P337 + P313 | If eye irritation persists: Get medical attention. |
| P362 + P364 | Take off contaminated clothing and wash it before reuse. |

Precautionary Statements (Storage):

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

Precautionary Statements (Disposal):

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

Other hazards which do not result in classification:

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.
See section 12 - Results of PBT and vPvB assessment.

3. Composition/information on ingredients

Chemical nature

2-ethylhexan-1-ol (Content (W/W): > 99.5 %)
CAS Number: 104-76-7

Hazardous ingredients

2-ethylhexan-1-ol

BASF Helaian Data Keselamatan (BASF Safety data sheet)

Tarikh / Disemak (Date / Revised): 23.04.2025

Versi (Version): 13.1

Produk (Product): **2-ETHYLHEXANOL**

(30034817/SDS_GEN_MY/MS)

Tarikh cetakan (Date of print): 13.10.2025

| | |
|------------------------------------|---------------------------------------|
| Content (W/W): > 99.5 % - <= 100 % | Acute Tox. 4 (Inhalation - mist) |
| CAS Number: 104-76-7 | Skin Irrit. 2 |
| | Eye Irrit. 2 |
| | STOT SE 3 (irr. to respiratory syst.) |
| | Aquatic Chronic 3 |

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:

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, consult an eye specialist.

On ingestion:

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

Note to physician:

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

Note to physician:

Hazards: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11. (Further) symptoms and / or effects are not known so far

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

5. Fire-Fighting Measures

Suitable extinguishing media:

dry powder, water spray, carbon dioxide, foam

Unsuitable extinguishing media for safety reasons:

water jet

Additional information:

Use extinguishing measures to suit surroundings.

Specific hazards:

BASF Helaian Data Keselamatan (BASF Safety data sheet)

Tarikh / Disemak (Date / Revised): 23.04.2025

Versi (Version): 13.1

Produk (Product): **2-ETHYLHEXANOL**

(30034817/SDS_GEN_MY/MS)

Tarikh cetakan (Date of print): 13.10.2025

Flammable liquid Cool endangered containers with water-spray. See SDS section 7 - Handling and storage.

Special protective equipment:

Wear a self-contained breathing apparatus. Special protective equipment for firefighters

Further information:

Evacuate area of all unnecessary personnel. Fight fire from maximum distance.

Extend fire extinguishing measures to the surroundings. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Handle in accordance with good industrial hygiene and safety practice. Avoid all sources of ignition: heat, sparks, open flame. Use antistatic tools.

Environmental precautions:

Discharge into the environment must be avoided.

Methods for cleaning up or taking up:

Pick up with suitable appliance and dispose of. Spills should be contained, solidified, and placed in suitable containers for disposal. Dispose of absorbed material in accordance with regulations.

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

Release of substance/product can cause fire or explosion. Shut off or stop source of leak. Shut off or stop released substance/product under safe conditions.

Pack in tightly closed containers for disposal.

7. Handling and Storage

Handling

Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

Avoid all sources of ignition: heat, sparks, open flame. Ground all transfer equipment properly to prevent electrostatic discharge.

Storage

Further information on storage conditions: Containers should be stored tightly sealed in a dry place. Keep under dry nitrogen. Blanket with nitrogen if the container is opened.

8. Exposure controls and personal protection

Components with occupational exposure limits

No substance specific occupational exposure limits known.

Personal protective equipment

Respiratory protection:

Suitable respiratory protection for lower concentrations or short-term effect: Gas filter for gases/vapours of organic compounds (boiling point >65 °C, e. g. EN 14387 Type A)

Hand protection:

Chemical resistant protective gloves (EN ISO 374-1)

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1):

nitrile rubber (NBR) - 0.4 mm coating thickness

Manufacturer's directions for use should be observed because of great diversity of types.

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

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:

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is required additionally to the stated personal protection equipment.

9. Physical and Chemical Properties

| | |
|------------------|----------------|
| Form: | liquid |
| Colour: | colourless |
| Odour: | alcohol-like |
| Odour threshold: | not determined |

| | |
|-----------|----------------------------|
| pH value: | neutral, of low solubility |
|-----------|----------------------------|

| | | |
|----------------|-------------|----------------------|
| Melting point: | -89 °C | (ASTM D97) |
| Boiling point: | 186 °C | (OECD Guideline 103) |
| | (1,013 hPa) | |

| | | |
|-------------------|-------|--------------|
| Flash point: | 75 °C | (closed cup) |
| Evaporation rate: | | |

Value can be approximated from Henry's Law Constant or vapor pressure.

| | | |
|---------------------------|---------------------|----------------------------|
| Flammability (solid/gas): | Combustible liquid. | (derived from flash point) |
|---------------------------|---------------------|----------------------------|

BASF Helaian Data Keselamatan (BASF Safety data sheet)

Tarikh / Disemak (Date / Revised): 23.04.2025

Versi (Version): 13.1

Produk (Product): **2-ETHYLHEXANOL**

(30034817/SDS_GEN_MY/MS)

Tarikh cetakan (Date of print): 13.10.2025

| | | |
|---|--|---|
| Lower explosion limit: | 0.88 %(V) Literature data., 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: | 280 °C | (Directive 92/69/EEC, A.15) |
| Thermal decomposition: | No decomposition if stored and handled as prescribed/indicated. | |
| Self ignition: | not self-igniting | Test type: Spontaneous self-ignition at room-temperature. |
| Self heating ability: | It is not a substance capable of spontaneous heating. | |
| Explosion hazard: | Based on the chemical structure there is no indication of explosive properties. | (other) |
| Fire promoting properties: | Based on its structural properties the product is not classified as oxidizing. | (other) |
| Vapour pressure: | 0.93 hPa (20 °C) | (OECD Guideline 104) |
| Density: | 0.832 g/cm ³ (20 °C) | (ASTM D4052) |
| Relative density: | 0.832 (20 °C) | (ASTM D4052) |
| Relative vapour density (air): | 4.49 (20 °C) Heavier than air. | (calculated) |
| Solubility in water: | 0.9 g/l (20 °C) | |
| Partitioning coefficient n-octanol/water (log Pow): | 2.9 (25 °C; pH value: 7) | (OECD Guideline 117) |
| Adsorption/water - soil: | KOC: 35.28; log KOC: 1.55 | (calculated) |
| Surface tension: | 47 mN/m (20 °C; 0.81 g/l) | (OECD Guideline 115) |
| Viscosity, dynamic: | 9.845 mPa.s (20 °C) | |
| Molar mass: | 130.23 g/mol | |

10. Stability and Reactivity

Conditions to avoid:

Avoid sources of ignition.

Thermal decomposition:

No decomposition if stored and handled as prescribed/indicated.

Substances to avoid:

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:

When heated can give off ignitable vapours.

Chemical stability:

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

11. Toxicological Information

Acute toxicity

Assessment of acute toxicity:

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

Experimental/calculated data:

LD50 rat (oral): 2,047 mg/kg (similar to OECD guideline 401)

LC50 rat (by inhalation): > 0,89 - <= 5,3 mg/l 4 h (similar to OECD guideline 403)

An aerosol was tested.

LD50 rat (dermal): > 3,000 mg/kg (OECD Guideline 402)

Irritation

Assessment of irritating effects:

Eye contact causes irritation. Skin contact causes irritation.

Experimental/calculated data:

Skin corrosion/irritation rabbit: Irritant. (OECD Guideline 404)

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

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

Respiratory/Skin sensitization

Assessment of sensitization:

The substance did not cause skin sensitization in humans.

Experimental/calculated data:

Human Maximization Test human: Non-sensitizing.

Germ cell mutagenicity**Assessment of mutagenicity:**

No mutagenic effect was found in various tests with microorganisms and mammalian cell culture. The substance was not mutagenic in studies with mammals.

Carcinogenicity**Assessment of carcinogenicity:**

In long-term studies in rats and mice in which the substance was given by gavage, 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. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

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.

Specific target organ toxicity (single exposure):**Assessment of STOT single:**

Causes temporary irritation of the respiratory tract.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)**Assessment of repeated dose toxicity:**

No substance-specific organotoxicity was observed after repeated administration to animals.

Aspiration hazard

not applicable

12. Ecological Information**Ecotoxicity**

Assessment of aquatic toxicity:

BASF Helaian Data Keselamatan (BASF Safety data sheet)

Tarikh / Disemak (Date / Revised): 23.04.2025

Versi (Version): 13.1

Produk (Product): **2-ETHYLHEXANOL**

(30034817/SDS_GEN_MY/MS)

Tarikh cetakan (Date of print): 13.10.2025

Acutely harmful for aquatic organisms. Harmful to aquatic organisms based on long-term (chronic) toxicity study data. 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) 17.1 mg/l, *Leuciscus idus* (OECD 203; ISO 7346; 84/449/EWG, C.1, Flow through.)

Aquatic invertebrates:

EC50 (48 h) 39 mg/l, *Daphnia magna* (Directive 84/449/EEC, C.2, static)

Nominal concentration.

Aquatic plants:

EC50 (72 h) 21.0 mg/l (growth rate), *Scenedesmus subspicatus* (Directive 88/302/EEC, part C, p. 89)

Nominal concentration.

EC10 (72 h) 7.41 mg/l (growth rate), *Desmodesmus subspicatus* (Directive 88/302/EEC, part C, p. 89)

Nominal concentration.

Microorganisms/Effect on activated sludge:

No data available.

Chronic toxicity to fish:

other (30 d) 0.278 mg/l, *Brachydanio rerio* (OECD Guideline 210, Flow through.)

The statement of the toxic effect relates to the analytically determined concentration.

Chronic toxicity to aquatic invertebrates:

EC10 (21 d), 1.53 mg/l, *Daphnia magna* (OECD Guideline 211, semistatic)

The statement of the toxic effect relates to the analytically determined concentration.

Assessment of terrestrial toxicity:

Mobility

Assessment transport between environmental compartments:

The substance will not evaporate into the atmosphere from the water surface.

Adsorption to solid soil phase is not expected.

Persistence and degradability

Elimination information:

79 - 99.9 % BOD of the ThOD (14 d) (OECD 301C; ISO 9408; 92/69/EWG, C.4-F) (aerobic, Inoculum conforming to MITI requirements (OECD 301C))

Assessment of stability in water:

No data available.

Information on Stability in Water (Hydrolysis):

No data available.

Bioaccumulation potential

Assessment bioaccumulation potential:

BASF Helaian Data Keselamatan (BASF Safety data sheet)

Tarikh / Disemak (Date / Revised): 23.04.2025

Versi (Version): 13.1

Produk (Product): **2-ETHYLHEXANOL**

(30034817/SDS_GEN_MY/MS)

Tarikh cetakan (Date of print): 13.10.2025

Significant accumulation in organisms is not to be expected.

Bioaccumulation potential:

No data available.

Other adverse effects

Adsorbable organically-bound halogen (AOX):

This product contains no organically-bound halogen.

Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control.

13. Disposal Information

Dispose of in accordance with national, state and local regulations.

Contaminated packaging:

Disposal must be made according to official regulations.

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: | IBC |
| Shipment approved: | 1 |
| Pollution name: | Octanol (all isomers) |
| Pollution category: | Y |
| Ship Type: | 2 |

BASF Helaian Data Keselamatan (BASF Safety data sheet)

Tarikh / Disemak (Date / Revised): 23.04.2025

Versi (Version): 13.1

Produk (Product): **2-ETHYLHEXANOL**

(30034817/SDS_GEN_MY/MS)

Tarikh cetakan (Date of print): 13.10.2025

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) (2017)

ACI Inventory Supporting Compound

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: 23.04.2025

Information Source and References:

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

Key Abbreviations:

ATE - Acute Toxicity Estimates

GHS - Globally Harmonized System

IATA / ICAO - International Air Transport Association / International Civil Aviation Organization

IBC - Intermediate Bulk Container

IMDG - International Maritime Dangerous Goods

LC - Lethal Concentration

LD - Lethal Dose

OECD - Organisation for Economic Co-operation and Development

OEL - Occupational Exposure Limit

OSHA - Occupational Safety and Health Act

STOT - Specific Target Organ Toxicity

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

Unst. Expl.

Unstable explosives

Expl. 1.1

Explosives division 1.1

Expl. 1.2

Explosives division 1.2

Expl. 1.3

Explosives division 1.3

Expl. 1.4

Explosives division 1.4

BASF Helaian Data Keselamatan (BASF Safety data sheet)

Tarikh / Disemak (Date / Revised): 23.04.2025

Versi (Version): 13.1

Produk (Product): **2-ETHYLHEXANOL**

(30034817/SDS_GEN_MY/MS)

Tarikh cetakan (Date of print): 13.10.2025

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|-----------------|---|
| Expl. 1.5 | Explosives division 1.5 |
| Expl. 1.6 | Explosives division 1.6 |
| Flam. Gas 1 | Flammable gases category 1 |
| Flam. Gas 2 | Flammable gases category 2 |
| Flam. Aerosol 1 | Flammable aerosols category 1 |
| Flam. Aerosol 2 | Flammable aerosols category 2 |
| Flam. Liq. 1 | Flammable liquids category 1 |
| Flam. Liq. 2 | Flammable liquids category 2 |
| Flam. Liq. 3 | Flammable liquids category 3 |
| Flam. Sol. 1 | Flammable solids category 1 |
| Flam. Sol. 2 | Flammable solids category 2 |
| Ox. Gas 1 | Oxidizing gases category 1 |
| Ox. Liq. 1 | Oxidizing liquids category 1 |
| Ox. Liq. 2 | Oxidizing liquids category 2 |
| Ox. Liq. 3 | Oxidizing liquids category 3 |
| Ox. Sol. 1 | Oxidizing solids category 1 |
| Ox. Sol. 2 | Oxidizing solids category 2 |
| Ox. Sol. 3 | Oxidizing solids category 3 |
| Press. Gas | Gases under pressure |
| Self-react. A | Self-reactive chemicals type A |
| Self-react. B | Self-reactive chemicals type B |
| Self-react. CD | Self-reactive chemicals type C and D |
| Self-react. EF | Self-reactive chemicals type E and F |
| Self-react. G | Self-reactive chemicals type G |
| Pyr. Liq. 1 | Pyrophoric liquids category 1 |
| Pyr. Sol. 1 | Pyrophoric solids category 1 |
| Self-heat. 1 | Self-heating chemicals category 1 |
| Self-heat. 2 | Self-heating chemicals category 2 |
| Water-react. 1 | Chemicals which, if in contact with water, emits flammable gases category 1 |
| Water-react. 2 | Chemicals which, if in contact with water, emits flammable gases category 2 |
| Water-react. 3 | Chemicals which, if in contact with water, emits flammable gases category 3 |
| Org. Perox. A | Organic peroxides type A |
| Org. Perox. B | Organic peroxides type B |
| Org. Perox. CD | Organic peroxides type C and D |
| Org. Perox. EF | Organic peroxides type E and F |
| Org. Perox. G | Organic peroxides type G |
| Met. Corr. 1 | Corrosive to metals category 1 |
| Acute Tox. 1 | Acute toxicity category 1 |
| Acute Tox. 2 | Acute toxicity category 2 |
| Acute Tox. 3 | Acute toxicity category 3 |
| Acute Tox. 4 | Acute toxicity category 4 |
| Skin Corr. 1A | Skin corrosion or irritation category 1A |
| Skin Corr. 1B | Skin corrosion or irritation category 1B |
| Skin Corr. 1C | Skin corrosion or irritation category 1C |
| Skin Irrit. 2 | Skin corrosion or irritation category 2 |
| Eye Dam. 1 | Serious eye damage or eye irritation category 1 |
| Eye Irrit. 2 | Serious eye damage or eye irritation category 2 |
| Resp. Sens. 1 | Respiratory sensitization category 1 |
| Skin Sens. 1 | Skin sensitization category 1 |
| Muta. 1A | Germ cell mutagenicity category 1A |
| Muta. 1B | Germ cell mutagenicity category 1B |

BASF Helaian Data Keselamatan (BASF Safety data sheet)

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(30034817/SDS_GEN_MY/MS)

Tarikh cetakan (Date of print): 13.10.2025

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

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