

Risalah Data Keselamatan

Safety data sheet

Mukasurat (Page): 1/19

BASF Risalah Data Keselamatan (BASF Safety data sheet)

Tarikh / Disemak (Date / Revised): 10.05.2016

Produk (Product): **Rheovis® AS 1180**

Versi (Version): 1.0

(30041264/SDS_GEN_MY/MS)

Tarikh cetakan (Date of print) 21.10.2025

1. Pengenalan bahan kimia dan pembekal

Rheovis® AS 1180

Kegunaan: Bahan mentah, untuk kegunaan industri sahaja

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:
Kerengsaan mata/ kerosakan mata yang serius: Kat. 2

Unsur label dan pernyataan berjaga-jaga:

Piktogram:

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Kata Isyarat:
Amaran

Pernyataan Bahaya:
Menyebabkan kerengsaan mata yang serius.

Pernyataan Berjaga-jaga (Pencegahan):
Pakai pelindung mata/muka. Basuh ... bersih-bersih selepas mengendalikan bahan.

Pernyataan Berjaga-jaga (Tindak Balas):
JIKI TERKENA MATA: Bilas berhati-hati dengan air selama beberapa minit. Tanggalkan kanta lekap, jika ada dan dapat dilakukan dengan mudah. Teruskan membilas. Jika kerengsaan mata berterusan: Hubungi PUSAT RACUN atau doktor/pakar perubatan.

Bahaya lain yang tidak menyebabkan pengelasan:
Tiada bahaya khusus yang diketahui jika peraturan/nota tentang penyimpanan dan pengendalian diberikan perhatian.

3. Komposisi dan Maklumat Mengenai Ramuan Bahan Kimia

Kedadaan kimia

poliakrilat, minyak mineral, dalam air

Ramuan berbahaya

ammonia, larutan akues

Kandungan (berat/berat): $\geq 0\%$ -	Skin Corr./Irrit.: Kat. 1B
$< 0.2\%$	Eye Dam./Irrit.: Kat. 1
Nombor CAS: 1336-21-6	STOT SE: Kat. 3 (irr. to respiratory syst.)
	Aquatic Acute: Kat. 1
	Aquatic Chronic: Kat. 2

Alcohols, C12-15 branched and linear, ethoxylated, propoxylated

Kandungan (berat/berat): $\geq 1\%$ -	Skin Corr./Irrit.: Kat. 2
$< 3\%$	Eye Dam./Irrit.: Kat. 1
Nombor CAS: 120313-48-6	Aquatic Acute: Kat. 1
	Aquatic Chronic: Kat. 3
	Faktor-M akut: 1

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, $<2\%$ aromatics

Kandungan (berat/berat): $\geq 20\%$ -	Asp. Tox.: Kat. 1
$< 25\%$	
Nombor CAS: 64742-47-8	

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

4. Langkah-Langkah Pertolongan Cemas

Nasihat am:

Segera tanggalkan pakaian yang tercemar.

Apabila terkena kulit:

Basuh bersih-bersih dengan sabun dan air.

Apabila terkena mata:

Segera basuh mata yang terkena produk selama sekurang-kurangnya 15 minit di bawah aliran air dengan membuka mata, rujuk pakar mata.

Apabila tertelan:

Segera basuh mulut dan kemudian minum banyak air, jangan paksa mangsa muntah, dapatkan rawatan perubatan.

Nota kepada doktor:

Gejala: Gejala dan kesan terpenting yang diketahui diterangkan didalam label (lihat bahagian 2) dan/atau bahagian 11.

Nota kepada doktor:

Bahaya: Jika tersedut (misalnya semasa muntah), ada risiko edema pulmonari dan/atau pneumonia.

Rawatan: Rawatan gejala (nyahcemar, fungsi utama).

5. Langkah-Langkah Pemadaman Kebakaran

Bahan pemadam yang sesuai:

semburan air, serbuk kering, busa, karbon dioksida

Bahaya tertentu:

Tiada bahaya khusus yang diketahui.

Peralatan perlindungan khusus:

Gunakan alat pernafasan serba lengkap dan pakaian pelindung kimia.

Maklumat lanjut:

Air pemadam api yang tercemar mestilah dilupuskan mengikut peraturan rasmi.

6. Langkah-Langkah Pelepasan Tidak Sengaja

Langkah pencegahan diri:

Gunakan pakaian pelindung diri. Elakkan daripada bersentuhan dengan kulit dan mata.

Langkah berjaga-jaga untuk alam sekitar:

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

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Kaedah pembersihan atau penyerapan:

Bagi sejumlah kecil: Kutip dengan bahan penyerap yang sesuai (contohnya pasir, habuk gergaji, pengikat serba guna, kieselguhr). Lupuskan bahan yang diserap mengikut peraturan.

Bagi sejumlah besar: Pam produk.

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

7. Pengendalian dan Penyimpanan;

Pengendalian

Kendalikan mengikut amalan kesihatan dan keselamatan industri yang baik.

Perlindungan terhadap kebakaran dan letupan:

Tiada langkah berjaga-jaga yang khusus diperlukan.

Penyimpanan

Maklumat lanjut tentang keadaan penyimpanan: Pastikan bekas tertutup rapat dan kering; simpan di tempat yang dingin.

Kestabilan penyimpanan:

Suhu penyimpanan: -10 - 35 °C

8. Kawalan pendedahan dan perlindungan diri

Komponen dengan parameter kawalan tempat kerja

ammonia, larutan akues, 1336-21-6;

Nilai TWA 25 ppm (ACGIHTLV)

Nilai STEL 35 ppm (ACGIHTLV)

Sulingan (petroleum), hidrur ringan; Kerosin - tidak dinyatakan, 64742-47-8;

Nilai TWA 200 mg/m³ (ACGIHTLV), bukan-aerosol

Diukur sebagai: jumlah keseluruhan wap hidrokarbon

Penggunaan terhad kepada keadaan dimana terdapat sedikit pendedahan aerosol.

Nama kulit (ACGIHTLV), bukan-aerosol

Diukur sebagai: jumlah keseluruhan wap hidrokarbon

Bahan boleh diserap melalui kulit.

Peralatan perlindungan peribadi

Perlindungan pernafasan:

Perlindungan pernafasan jika berlaku pelepasan wap/aerosol.

Perlindungan tangan:

Sarung tangan pelindung kalis kimia (EN 374)

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

getah nitril (NBR) - 0.4 mm ketebalan salutan

Sarung tangan kalis kimia yang sesuai (EN 374) jika terkena secara langsung yang berpanjangan (Disyorkan: Indeks pelindung 6, sama dengan masa penelapan > 480 minit mengikut EN 374):

Misalnya getah nitril (0.4 mm), getah kloroprena (0.5 mm), polivinilklorida (0.7 mm) dan lainnya.

Arahan penggunaan pengilang hendaklah dipatuhi kerana jenisnya yang pelbagai.

Perlindungan mata:

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

9. Sifat Fizikal dan Kimia

Bentuk:	cecair	
Warna:	putih	
Bau:	seperti ammonia	
Ambang bau:	Tiada data diperolehi.	
nilai pH:	7.5 - 9.0	(DIN ISO 976)
takat beku:	tidak ditentukan	
Takat kilat:	74 °C	(DIN 51758)
Tahap penyejatan:	tidak ditentukan	
Kemudahbakaran (pepejal/gas):	tidak mencucuh	
Had letupan bawah:	34.9 %(V)	
Had letupan atas:	90.5 %(V)	
Suhu pencucuhan:	455 °C	(DIN 51794)
Penguraian terma:	Tiada penguraian jika digunakan seperti yang diarahkan.	
pencucuhan sendiri:	Tidak swacucuh.	
Bahaya letupan:	tidak mudah meletup	
Sifat yang menggalakkan kebakaran:	tidak merebakkan api	
Tekanan Wap:	123 mbar (50 °C)	
Kepekatan:	dianggarkan 1.0 g/cm ³ (20 °C)	(ISO 2811-1)
Ketumpatan wap relatif (udara):	tidak ditentukan	
Keterlarutan dalam air:	mudah terserak	
Keterlarutcampurkan dengan air:	terlarut campur	

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Pekali petakan n-oktanol/air (log Pow):	tidak berkenaan untuk campuran	
Tegangan permukaan:	Tiada data diperoleh.	
Kelikatan, dinamik:	100 - 300 mPa.s (23 °C, 250 1/s)	(DIN EN ISO 3219)
Tempoh aliran:	28 s (20 °C)	(DIN 53211)
Kandungan pepejal:	26.0 - 32.0 %	(DIN EN ISO 3251)

10. Kestabilan dan Kereaktifan

Keadaan yang perlu dielakkan:
Elakkan suhu yang ekstrem.

Penguraian terma: Tiada penguraian jika digunakan seperti yang diarahkan.

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

Tindak balas berbahaya:
Tiada tindakbalas berbahaya jika disimpan dan dikendalikan seperti yang dinyatakan.

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

11. Maklumat Toksikologi

Ketoksikan akut

Penilaian ketoksikan akut:
Tidak toksik selepas sekali ditelan.

Data eksperimen/dikira:
LD50 tikus (melalui mulut): > 5,000 mg/kg (Ujian BASF)

LC50 tikus (melalui penyedutan):
tidak ditentukan

LD50 tikus (dermal):
tidak ditentukan

Kerengsaan

Data eksperimen/dikira:
Kakisan/Kerengsaan kulit arnab: (Garis panduan OECD 404)

Produk belum diuji. Penyataan diambil daripada ciri setiap komponen.

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

Produk belum diuji. Penyataan diambil daripada ciri setiap komponen.

Pemekaan pernafasan/kulit

Penilaian pemekaan:

Tiada data diperolehi.

Data eksperimen/dikira:

Tiada data diperolehi.

Kemutagenan sel germa

Penilaian kemutagenan:

Bahan tidak mutagen dalam bakteria.

Kekarsinogenan

Penilaian kekarsinogenan:

Tiada data diperolehi.

Ketoksikan pembiakan

Penilaian ketoksikan pembiakan:

Tiada data diperolehi.

Ketoksikan perkembangan

Penilaian keteratogenan:

Tiada data diperolehi.

Ketoksikan khusus organ sasaran (sekali pendedahan):

Catatan: Tiada data diperolehi.

12. Maklumat Ekologi

Keekotoksikan

Penilaian ketoksikan akuatik:

Toksik secara akut kepada organisma akuatik.

Ketoksikan kepada ikan:

LC50 (96 h) 71 mg/l, *Brachydanio rerio* (OECD 203; ISO 7346; 92/69/EEC, C.1, semistatik)

Invertebrat air:

EC50 (48 h) 3 mg/l, *Daphnia magna* (Garis panduan OECD 202, Bahagian 1, statik)

Tumbuhan akuatik:

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EC50 (72 h) 4.5 mg/l (kadar pertumbuhan), *Scenedesmus subspicatus* (Garis panduan OECD 201, statik)

Mikroorganisma/Kesan ke atas enap cemar diaktifkan:

> 1,000 mg/l, *Bacillus subtilis* (DEV-L2)

Perencatan aktiviti degradasi dalam enap cemar diaktifkan tidak dijangka jika memulakannya dengan betul pada kepekatan rendah.

Ketoksikan kronik kepada ikan:

Tiada data diperolehi.

Ketoksikan kronik kepada invertebrata akuatik:

Tiada data diperolehi.

Penilaian ketoksikan daratan:

Tiada data didapati berkenaan dengan ketoksikan daratan.

Mobiliti

Penilaian pengangkutan di antara bahagian di persekitaran:

Tiada data diperolehi.

Keterusan dan boleh keterdegradasikan

Maklumat penyingkiran:

> 70 % Pengurangan COD (OECD 302B; ISO 9888; 88/302/EEC, Bah. C) Mudah disingkirkan daripada air.

Parameter air buangan

Permintaan oksigen kimia (COD): 635 mg/g

Permintaan Oksigen Biokimia (BOD) Tempoh pengesanan 5 hari: 235 mg/g

Permintaan Oksigen Biokimia (BOD) Tempoh pengesanan 30 hari: 605 mg/g

Potensi Biotumpukan

Penilaian potensi bioakumulasi:

Produk belum diuji.

Potensi Biotumpukan:

Tiada data diperolehi.

Maklumat tambahan

Perhatian tambahan bagi nasib pada alam sekitar & laluan:

Rawatan didalam loji rawatan air sisa biologi mestilah dijalankan menurut peraturan dan pentadbiran setempat.

Nasihat ekotoksikologi lain:

Jangan lepaskan sisa yang tidak dirawat ke dalam air semula jadi.

13. Maklumat Pelupusan

Mestilah dibuang atau dibakar mengikut peraturan tempatan.

Pembungkusan tercemar:

Bungkusan yang tidak tercemar boleh diguna semula.

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

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

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

Sebarang tujuan penggunaan lain hendaklah dibincangkan dengan pengeluar.

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

Skin Corr./Irrit.	Kakisan/kerengsaan kulit
Eye Dam./Irrit.	Kerengsaan mata/ kerosakan mata yang serius
STOT SE	Pendedahan tunggal STOT
Aquatic Acute	Bahaya akut kepada persekitaran akuatik
Aquatic Chronic	Bahaya kronik kepada persekitaran akuatik.
Asp. Tox.	Bahaya aspirasi

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

Rheovis® AS 1180

Use: Raw material, for industrial use only

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:

Serious eye damage/eye irritation: Cat. 2

Label elements and precautionary statement:

Pictogram:



Signal Word:

Warning

Hazard Statement:

Causes serious eye irritation.

Precautionary Statements (Prevention):

Wear eye/face protection. Wash with plenty of water and soap thoroughly after handling.

Precautionary Statements (Response):

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Call a POISON CENTER or doctor/physician.

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Other hazards which do not result in classification:

No specific dangers known, if the regulations/notes for storage and handling are considered.

3. Composition/information on ingredients

Chemical nature

polyacrylate, mineral oil, in water

Hazardous ingredients

ammonia, aqueous solution

Content (W/W): $\geq 0\%$ - $< 0.2\%$

CAS Number: 1336-21-6

Skin Corr./Irrit.: Cat. 1B

Eye Dam./Irrit.: Cat. 1

STOT SE: Cat. 3 (irr. to respiratory syst.)

Aquatic Acute: Cat. 1

Aquatic Chronic: Cat. 2

Alcohols, C12-15 branched and linear, ethoxylated, propoxylated

Content (W/W): $\geq 1\%$ - $< 3\%$

CAS Number: 120313-48-6

Skin Corr./Irrit.: Cat. 2

Eye Dam./Irrit.: Cat. 1

Aquatic Acute: Cat. 1

Aquatic Chronic: Cat. 3

M-factor acute: 1

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, $<2\%$ aromaticsContent (W/W): $\geq 20\%$ - $< 25\%$ Asp. Tox.: Cat. 1

CAS Number: 64742-47-8

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:

Immediately remove contaminated clothing.

On skin contact:

Wash thoroughly with soap and water.

On contact with eyes:

Immediately 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 plenty of water, do not induce vomiting, seek medical attention.

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Note to physician:

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Note to physician:

Hazards: When inhaled (e.g. during vomiting) risk of pulmonary oedema and/or pneumonia.

Treatment: Symptomatic treatment (decontamination, vital functions).

5. Fire-Fighting Measures

Suitable extinguishing media:

water spray, dry powder, foam, carbon dioxide

Specific hazards:

No particular hazards known.

Special protective equipment:

Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. Accidental Release Measures

Personal precautions:

Use personal protective clothing. Avoid contact with skin and eyes.

Environmental precautions:

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). Dispose of absorbed material in accordance with regulations.

For large amounts: Pump off product.

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

7. Handling and Storage

Handling

Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

No special precautions necessary.

Storage

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

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Storage stability:

Storage temperature: -10 - 35 °C

8. Exposure controls and personal protection

Components with occupational exposure limits

ammonia, aqueous solution, 1336-21-6;

TWA value 25 ppm (ACGIHTLV)

STEL value 35 ppm (ACGIHTLV)

Distillates (petroleum), hydrotreated light, 64742-47-8;

TWA value 200 mg/m³ (ACGIHTLV), Non-aerosol

Measured as: total hydrocarbon vapor

Application restricted to conditions in which there are negligible aerosol exposures.

Skin Designation (ACGIHTLV), Non-aerosol

Measured as: total hydrocarbon vapor

The substance can be absorbed through the skin.

Personal protective equipment

Respiratory protection:

Respiratory protection in case of vapour/aerosol release.

Hand protection:

Chemical resistant protective gloves (EN 374)

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

nitrile rubber (NBR) - 0.4 mm coating thickness

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

(Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc.

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

Eye protection:

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

9. Physical and Chemical Properties

Form:	liquid
Colour:	white
Odour:	ammonia-like
Odour threshold:	No data available.

pH value: 7.5 - 9.0

(DIN ISO 976)

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Freezing point:	not determined	
Flash point:	74 °C	(DIN 51758)
Evaporation rate:	not determined	
Flammability (solid/gas):	not flammable	
Lower explosion limit:	34.9 %(V)	
Upper explosion limit:	90.5 %(V)	
Ignition temperature:	455 °C	(DIN 51794)
Thermal decomposition:	No decomposition if used as directed.	
Self ignition:	not self-igniting	
Explosion hazard:	not explosive	
Fire promoting properties:	not fire-propagating	
Vapour pressure:	123 mbar (50 °C)	
Density:	approx. 1.0 g/cm ³ (20 °C)	(ISO 2811-1)
Relative vapour density (air):	not determined	
Solubility in water:	dispersible	
Miscibility with water:	miscible	
Partitioning coefficient n-octanol/water (log Pow):	not applicable for mixtures	
Surface tension:	No data available.	
Viscosity, dynamic:	100 - 300 mPa.s (23 °C, 250 1/s)	(DIN EN ISO 3219)
Flow time:	28 s (20 °C)	(DIN 53211)
Solids content:	26.0 - 32.0 %	(DIN EN ISO 3251)

10. Stability and Reactivity

Conditions to avoid:
Avoid extreme temperatures.

Thermal decomposition: No decomposition if used as directed.

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

BASF Risalah Data Keselamatan (BASF Safety data sheet)

Tarikh / Disemak (Date / Revised): 10.05.2016

Versi (Version): 1.0

Produk (Product): **Rheovis® AS 1180**

(30041264/SDS_GEN_MY/MS)

Tarikh cetakan (Date of print) 21.10.2025

Hazardous reactions:

No hazardous reactions when stored and handled according to instructions.

Hazardous decomposition products:

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

11. Toxicological Information

Acute toxicity

Assessment of acute toxicity:

Virtually nontoxic after a single ingestion.

Experimental/calculated data:

LD50 rat (oral): > 5,000 mg/kg (BASF-Test)

LC50 rat (by inhalation):

not determined

LD50 rat (dermal):

not determined

Irritation

Experimental/calculated data:

Skin corrosion/irritation rabbit: (OECD Guideline 404)

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

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

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

Respiratory/Skin sensitization

Assessment of sensitization:

No data available.

Experimental/calculated data:

No data available.

Germ cell mutagenicity

Assessment of mutagenicity:

The substance was not mutagenic in bacteria.

Carcinogenicity

Assessment of carcinogenicity:

No data available.

Reproductive toxicity

Assessment of reproduction toxicity:

No data available.

Developmental toxicity

Assessment of teratogenicity:

No data available.

Specific target organ toxicity (single exposure):

Remarks: No data available.

12. Ecological Information**Ecotoxicity**

Assessment of aquatic toxicity:

Acutely toxic for aquatic organisms.

Toxicity to fish:

LC50 (96 h) 71 mg/l, *Brachydanio rerio* (OECD 203; ISO 7346; 92/69/EEC, C.1, semistatic)

Aquatic invertebrates:

EC50 (48 h) 3 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)

Aquatic plants:

EC50 (72 h) 4.5 mg/l (growth rate), *Scenedesmus subspicatus* (OECD Guideline 201, static)

Microorganisms/Effect on activated sludge:

> 1,000 mg/l, *Bacillus subtilis* (DEV-L2)

Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

Chronic toxicity to fish:

No data available.

Chronic toxicity to aquatic invertebrates:

No data available.

Assessment of terrestrial toxicity:

No data available concerning terrestrial toxicity.

Mobility

Assessment transport between environmental compartments:

No data available.

Persistence and degradability

Elimination information:

> 70 % COD reduction (OECD 302B; ISO 9888; 88/302/EEC,part C) Easily eliminated from water.

Sum parameter

Chemical oxygen demand (COD): 635 mg/g

Biochemical oxygen demand (BOD) Incubation period 5 d: 235 mg/g

Biochemical oxygen demand (BOD) Incubation period 30 d: 605 mg/g

Bioaccumulation potential

Assessment bioaccumulation potential:

The product has not been tested.

Bioaccumulation potential:

No data available.

Additional information

Add. remarks environm. fate & pathway:

Treatment in biological waste water treatment plants has to be performed according to local and administrative regulations.

Other ecotoxicological advice:

Do not release untreated into natural waters.

13. Disposal Considerations

Must be disposed of or incinerated in accordance with local regulations.

Contaminated packaging:

Uncontaminated packaging can be re-used.

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

14. Transport 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

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

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

15. Regulatory Information**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

Any other intended applications should be discussed with the manufacturer.

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

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

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.