



Eni Additiv PMX

Material number 920

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2020/878

Revision date: 20.3.2024
Version: 1.0
Replaces version: 0.0
Language: en-DE
Date of print: 5.4.2024

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: Eni Additiv PMX
UFI: QWA0-F0G0-J00Q-UY53

1.2 Relevant identified uses of the substance or mixture and uses advised against

General use: Cleaning agent

1.3 Details of the supplier of the safety data sheet

Company name: Enilive Schmiertechnik GmbH
Street/POB-No.: Paradiesstraße 14
Postal Code, city: 97080 Würzburg
Germany
E-mail: info.wuerzburg@enilive.com
Telephone: +49 (0)931-90098-0
Telefax: +49 (0)931-98442
Department responsible for information:
Application Engineering & Product Management (AEPM)
Telephone: +49 (0)931-90098-0
E-mail: technik.wuerzburg@enilive.com

1.4 Emergency telephone number

GIZ-Nord, Göttingen
Telephone: +49 (0)551-19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

Skin Irrit. 2; H315 Causes skin irritation.
Eye Dam. 1; H318 Causes serious eye damage.
STOT SE 3; H335 May cause respiratory irritation.

2.2 Label elements

Labelling (CLP)



Signal word: **Danger**
Hazard statements: H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.



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Precautionary statements:

- P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P261 Avoid breathing mist/vapours/spray.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
P405 Store locked up.
P501 Dispose of contents/container to hazardous or special waste collection point.

Special labelling

Text for labelling: Contains 2-Phenoxyethanol, 2-(2-Aminoethoxy)ethanol.

2.3 Other hazards

Special danger of slipping by leaking/spilling product.

Endocrine disrupting properties, Results of PBT and vPvB assessment:

This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% (w/w) or higher. The product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Hazardous ingredients:

Identifiers	Designation Classification	Content
REACH 01-2119527859-22-xxxx EC No. 271-781-5 CAS 68608-26-4	Sulfonic acids, petroleum, sodium salts Eye Irrit. 2; H319.	30 - 35 %
REACH 01-2119488943-21-xxxx EC No. 204-589-7 CAS 122-99-6	2-Phenoxyethanol Acute Tox. 4; H302. Eye Dam. 1; H318. STOT SE 3; H335. Acute toxicity estimate (ATE): Oral: 1394 mg/kg bw.	20 - 25 %
REACH 01-2119520701-52-xxxx EC No. 213-195-4 CAS 929-06-6	2-(2-Aminoethoxy)ethanol Skin Corr. 1B; H314. Eye Dam. 1; H318.	< 3 %
REACH 01-2119475104-44-xxxx EC No. 203-961-6 CAS 112-34-5	2-(2-Butoxyethoxy)ethanol Eye Irrit. 2; H319.	< 1 %

Full text of H- and EUH-statements: see section 16.



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Additional information: Contains Triethanolamine.
The maximum workplace exposure limits are, where necessary, listed in section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: If medical advice is needed, have product container or label at hand. Take off contaminated clothing and wash it before reuse.

In case of inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention if problems persist.

Following skin contact: Immediately clean with water and soap followed by thorough rinsing. In case of skin reactions, consult a physician.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Subsequently seek the immediate attention of an ophthalmologist.

After swallowing: Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

May cause respiratory irritation. Causes skin irritation. Causes serious eye damage.

4.3 Indication of any immediate medical attention and special treatment needed

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Water spray jet, water mist, foam, extinguishing powder, carbon dioxide.

Extinguishing media which must not be used for safety reasons: Full water jet.

5.2 Special hazards arising from the substance or mixture

Combustible.
May form dangerous gases and vapours in case of fire.
Furthermore, there may develop: Nitrogen oxides (NO_x), smoke, carbon monoxide and carbon dioxide.

5.3 Advice for firefighters

Special protective equipment for firefighters: Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information: Do not inhale explosion and combustion gases. Use fine water spray to cool endangered containers.
Do not allow water used to extinguish fire to enter drains, ground or waterways.
Contaminated fire-fighting water must be collected separately.
Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.



SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing mist/vapours/spray. Avoid contact with the substance.
If possible, eliminate leakage. Provide adequate ventilation.
Wear appropriate protective equipment. Keep unprotected people away.
Take off contaminated clothing and wash it before reuse.

6.2 Environmental precautions

Do not allow to enter into ground-water, surface water or drains.
If necessary notify appropriate authorities.

6.3 Methods and material for containment and cleaning up

Eliminate leaks immediately. Prevent spread over a wide area (e.g. by containment or oil barriers).
Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents) and place in closed containers for disposal. Clean the floor and all object contaminated by this material.
Never return spills in original containers for re-use.

Additional information: Special danger of slipping by leaking/spilling product.

6.4 Reference to other sections

Refer additionally to section 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Avoid breathing mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Wear appropriate protective equipment.
Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse. Do not put any product-impregnated cleaning rags into your trouser pockets. Work place should be equipped with a shower and an eye rinsing apparatus.

Precautions against fire and explosion:

Keep away from heat.
When handling larger quantities, take precautionary measures against electrostatic charging.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container tightly closed and in a well-ventilated place.
Keep container dry. Keep only in the original container.
Protect from frost, heat and sunlight.
Store containers in upright position.
Recommended storage temperature: 5 - 40 °C

Hints on joint storage: Do not store together with oxidizing agents.
Keep away from food, drink and animal feedingstuffs.

Storage class: 10 = Combustible liquids, unless storage class 3



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7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
122-99-6	2-Phenoxyethanol	Germany: TRGS 900 Kurzzeit	5,7 mg/m ³ ; 1 ppm (Aerosol and vapour)
		Germany: TRGS 900 Langzeit	5,7 mg/m ³ ; 1 ppm (Aerosol and vapour)
929-06-6	2-(2-Aminoethoxy)ethanol	Germany: TRGS 900 Kurzzeit	0,87 mg/m ³ ; 0,2 ppm (Aerosol and vapour, may be absorbed through the skin)
		Germany: TRGS 900 Langzeit	0,87 mg/m ³ ; 0,2 ppm (Aerosol and vapour, may be absorbed through the skin)
102-71-6	Triethanolamine	Germany: TRGS 900 Kurzzeit	1 mg/m ³ (inhalable fraction)
		Germany: TRGS 900 Langzeit	1 mg/m ³ (inhalable fraction)
112-34-5	2-(2-Butoxyethoxy) ethanol	Europe: IOELV: STEL	101,2 mg/m ³ ; 15 ppm
		Europe: IOELV: TWA	67,5 mg/m ³ ; 10 ppm
		Germany: TRGS 900 Kurzzeit	100,5 mg/m ³ ; 15 ppm (Aerosol and vapour)
		Germany: TRGS 900 Langzeit	67 mg/m ³ ; 10 ppm (Aerosol and vapour)



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DNEL/DMEL:

Information about 2-Phenoxyethanol (CAS 122-99-6):

DNEL, workers, inhalative, systemic, long-term: 5,7 mg/m³

DNEL, workers, inhalative, local, long-term: 5,7 mg/m³

DNEL, workers, dermal, systemic, long-term: 20,83 mg/kg bw/d

DNEL, consumers, inhalative, systemic, long-term: 2,41 mg/m³

DNEL, consumers, inhalative, local, long-term: 2,41 mg/m³

DNEL, consumers, dermal, systemic, long-term: 10,42 mg/kg bw/d

DNEL, consumers, oral, systemic, long-term: 9,23 mg/kg bw/d

DNEL, consumers, oral, systemic, short-term: 9,23 mg/kg bw/d

Information about 2-(2-Aminoethoxy)ethanol (CAS 929-06-6):

DNEL, workers, inhalative, systemic, long-term: 16,8 mg/m³

DNEL, workers, inhalative, local, long-term: 0,15 mg/m³

DNEL, workers, dermal, systemic, long-term: 4,8 mg/kg bw/d

DNEL, consumers, oral, systemic, long-term: 1,7 mg/kg bw/d

Information about Triethanolamine (CAS 102-71-6):

DNEL, workers, inhalative, local, long-term: 1 mg/m³

DNEL, workers, dermal, systemic, long-term: 7,5 mg/kg bw/d

DNEL, workers, dermal, local, long-term: 140 µg/cm²

DNEL, consumers, inhalative, local, long-term: 0,4 mg/m³

DNEL, consumers, dermal, systemic, long-term: 2,66 mg/kg bw/d

DNEL, consumers, dermal, local, long-term: 70 µg/cm²

DNEL, consumers, oral, systemic, long-term: 3,3 mg/kg bw/d

PNEC:

Information about 2-Phenoxyethanol (CAS 122-99-6):

PNEC, water (freshwater): 0,943 mg/L

PNEC, water (freshwater, intermittent release): 3,44 mg/L

PNEC, water (marine water): 0,094 mg/L

PNEC, sewage treatment plant: 36 mg/L

PNEC, sediment (freshwater): 7,237 mg/kg dw

PNEC, sediment (marine water): 0,724 mg/kg dw

PNEC, soil: 1,31 mg/kg dw

Information about 2-(2-Aminoethoxy)ethanol (CAS 929-06-6):

PNEC, water (freshwater): 0,0202 mg/L

PNEC, water (marine water): 0,0202 mg/L

PNEC, sewage treatment plant: 28 mg/L

PNEC, sediment (freshwater): 0,945 mg/kg dw

PNEC, sediment (marine water): 0,0945 mg/kg dw

Information about Triethanolamine (CAS 102-71-6):

PNEC, water (freshwater): 0,32 mg/L

PNEC, water (freshwater, intermittent release): 5,12 mg/L

PNEC, water (marine water): 0,032 mg/L

PNEC, sewage treatment plant: 10 mg/L

PNEC, sediment (freshwater): 1,7 mg/kg dw

PNEC, sediment (marine water): 0,17 mg/kg dw

PNEC, soil: 0,151 mg/kg dw

8.2 Exposure controls

Provide good ventilation and/or an exhaust system in the work area.



Personal protection equipment

Occupational exposure controls

Respiratory protection:	In case of inadequate ventilation wear respiratory protection. Respiratory protection must be worn whenever the WEL levels have been exceeded. Recommendation: Combination filtering device. The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product.
Hand protection:	Protective gloves according to DIN EN 374. Permanent contact: Glove material: Nitrile rubber, polychloroprene, chloroprene rubber Layer thickness: 0,7 mm Breakthrough time: > 480 min During splash contact: Glove material: Nitrile rubber, polychloroprene, chloroprene rubber Layer thickness: 0,40 mm Breakthrough time: > 30 min Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
Eye protection:	Tightly sealed goggles according to DIN EN ISO 16321-1:2022.
Body protection:	Wear suitable protective clothing.
General protection and hygiene measures:	Avoid breathing mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse. Do not put any product-impregnated cleaning rags into your trouser pockets. Work place should be equipped with a shower and an eye rinsing apparatus.

Environmental exposure controls

Refer to "6.2 Environmental precautions".

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state at 20 °C and 101.3 kPa	liquid
Colour:	light yellow
Odour:	Characteristic
Odour threshold:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flammability:	Combustible
Upper/lower flammability or explosive limits:	No data available
Flash point/flash point range:	> 100 °C (DIN EN ISO 2592)
Decomposition temperature:	No data available
pH:	at 20 °C, 5%: 9,8 (DIN 51369)
Viscosity, kinematic:	at 20 °C: approx. 760 mm ² /s (DIN EN ISO 3104)
Water solubility:	at 20 °C: Miscible
Partition coefficient: n-octanol/water:	Not applicable
Vapour pressure:	No data available



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Density: at 15 °C: 1,033 g/mL (DIN EN ISO 12185)
Vapour density: No data available
Particle characteristics: Not applicable

9.2 Other information

Explosive properties: No data available
Oxidizing characteristics: No data available
Auto-ignition temperature: No data available
Evaporation rate: No data available
Additional information: No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Refer to subsection "Possibility of hazardous reactions".

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4 Conditions to avoid

Protect from frost, heat and sunlight.

10.5 Incompatible materials

Oxidizing agents.

10.6 Hazardous decomposition products

No hazardous decomposition products known.
Thermal decomposition: No data available



SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Based on available data, the classification criteria are not met.
ATEmix (calculated): > 2.000 mg/kg

Acute toxicity (dermal): Based on available data, the classification criteria are not met.
ATEmix (calculated): > 2.000 mg/kg

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.
ATEmix (calculated): > 20 mg/L/4h (vapour)

Skin corrosion/irritation: Skin Irrit. 2; H315 = Causes skin irritation.

Serious eye damage/irritation: Eye Dam. 1; H318 = Causes serious eye damage.

Sensitisation to the respiratory tract: Based on available data, the classification criteria are not met.

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

Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met.

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

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

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): STOT SE 3; H335 = May cause respiratory irritation.

Specific target organ toxicity (repeated exposure): Based on available data, the classification criteria are not met.

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

11.2 Information on other hazards

Endocrine disrupting properties:

None

Other information:

Information about 2-Phenoxyethanol:

ATE, oral: 1.394 mg/kg

LD50 Rat, oral: 1.840 mg/kg (OECD 401)

LD50 Rat, dermal: > 2.000 mg/kg

LC50 Rat, inhalative (dusts/mist): > 1.000 mg/m³/6h (OECD 412)

Information about 2-(2-Aminoethoxy)ethanol:

LD50 Rat, oral: approx. 3.000 mg/kg (OECD 401)

LD0 Rabbit, dermal: 3.000 mg/kg (OECD 402)

LC50 Rat, inhalative (vapour): > 8,7 mg/m³/8h (OECD 403)

Symptoms

Processing vapours can irritate the respiratory tracts, skin and eyes.

After eye contact: Upon direct contact with eyes may cause burning, tearing, redness.



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SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: Information about 2-Phenoxyethanol:
Fish toxicity:
LC50 Pimephales promelas (fathead minnow): 344 mg/L/96h
Daphnia toxicity:
EC50 Daphnia magna (Big water flea): > 500 mg/L/48h (OECD 202)
Algae toxicity:
EC50 Desmodesmus subspicatus (green algae): > 100 mg/L/72h (OECD 201)
Information about 2-(2-Aminoethoxy)ethanol:
Fish toxicity:
LC50 Leuciscus idus: approx. 460 mg/L/96h
Daphnia toxicity:
EC50 Daphnia magna (Big water flea): 189 mg/L/48h (EU Method C.2)
Algae toxicity:
EC50 Desmodesmus subspicatus (green algae): 202 mg/L/72h
Water Hazard Class: 2 = obviously hazardous to water (Self-classification (mixture).)

12.2 Persistence and degradability

Further details: Abiotic degradation: Poorly eliminated from water.
Biodegradation: Moderately/partially biodegradable.

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:
Not applicable

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

The product does not contain any substances classified as PBT or vPvB.

12.6 Endocrine disrupting properties

None

12.7 Other adverse effects

General information: Do not allow to enter into ground-water, surface water or drains.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste key number: 07 07 04* = Other organic solvents, washing liquids and mother liquors
* = Evidence for disposal must be provided.

Recommendation: Dispose of waste according to applicable legislation.



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Package

Recommendation: Dispose of waste according to applicable legislation.
Handle contaminated packages in the same way as the substance itself.
Non-contaminated packages may be recycled.

SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID, ADN, IMDG, IATA-DGR:
not applicable

14.2 UN proper shipping name

ADR/RID, ADN, IMDG, IATA-DGR:
Not restricted

14.3 Transport hazard class(es)

ADR/RID, ADN, IMDG, IATA-DGR:
not applicable

14.4 Packing group

ADR/RID, ADN, IMDG, IATA-DGR:
not applicable

14.5 Environmental hazards

Dangerous for the environment:
Substance/mixture is not environmentally hazardous according to the criteria of the UN model regulations.

Marine pollutant - IMDG: no

14.6 Special precautions for user

No dangerous good in sense of these transport regulations.

14.7 Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations - Germany

Storage class: 10 = Combustible liquids, unless storage class 3

Water Hazard Class: 2 = obviously hazardous to water (Self-classification (mixture).)

Technical guidance air: 5.2.5

Information on working limitations:
Observe employment restrictions for young people.

Further regulations, limitations and legal requirements:

No data available

National regulations - EC member states

Volatile organic compounds (VOC):

1 % by weight

Labelling of packaging with <= 125mL content

Signal word:

Danger

Hazard statements:

H318

Causes serious eye damage.

H335

May cause respiratory irritation.

Precautionary statements:

P101

If medical advice is needed, have product container or label at hand.

P102

Keep out of reach of children.

P261

Avoid breathing mist/vapours/spray.

P271

Use only outdoors or in a well-ventilated area.

P280

Wear protective gloves/protective clothing/eye protection.

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310

Immediately call a POISON CENTER/doctor.

P405

Store locked up.

P501

Dispose of contents/container to hazardous or special waste collection point.

Further regulations, limitations and legal requirements:

Use restriction according to REACH annex XVII, no.: 3, 55, 75

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

SECTION 16: Other information

Wording of the H-phrases under paragraph 2 and 3:

H302 = Harmful if swallowed.

H314 = Causes severe skin burns and eye damage.

H315 = Causes skin irritation.

H318 = Causes serious eye damage.

H319 = Causes serious eye irritation.

H335 = May cause respiratory irritation.

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Department issuing data sheet:

see section 1: Department responsible for information



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Abbreviations and acronyms:

Acute Tox.: Acute toxicity
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
AS/NZS: Australian Standards/New Zealand Standards
ATE: Acute toxicity estimate
Bw: Body weight
CAS: Chemical Abstracts Service
CFR: Code of Federal Regulations
CLP: Classification, Labelling and Packaging
DMEL: Derived minimal effect level
DNEL: Derived no-effect level
EC: European Community
EC50: Effective Concentration 50%
EN: European Standard
EQ: Excepted quantities
EU: European Union
Eye Dam.: Eye damage
Eye Irrit.: Eye irritation
IATA: International Air Transport Association
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IMDG Code: International Maritime Dangerous Goods Code
LC50: Median lethal concentration
LD50: Lethal dose 50%
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD: Organisation for Economic Co-operation and Development
OEL: Occupational Exposure Limit Value
OSHA: Occupational Safety and Health Administration
PBT: Persistent, bioaccumulative and toxic
PNEC: Predicted no-effect concentration
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
Skin Corr.: Skin corrosion
Skin Irrit.: Skin irritation
STOT SE: Specific target organ toxicity - single exposure
TLV: Threshold Limit Value
TRGS: Technical Rules for Hazardous Substances
vPvB: Very persistent and very bioaccumulative
WEL: Workplace Exposure Limit

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.

Most recent product information is available at:
<http://sumdat.net/tkusmwxy>

