

Material number 11410

Revision date: 20.3.2024
Version: 4.0
Replaces version: 3.4
Language: en-DE
Date of print: 2.4.2024

Safety Data Sheet

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

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

1.1 Product identifier

Trade name: AUTOL PROFI DK-KAT 1:1000

UFI: F10X-689Q-X302-MJFV

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

General use: System cleaner for vehicle fuel units (diesel engines)

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)

Acute Tox. 4; H302 Harmful if swallowed.

Asp. Tox. 1; H304 May be fatal if swallowed and enters airways. Aquatic Chronic 3; H412 Harmful to aquatic life with long lasting effects.

(EUH066) Repeated exposure may cause skin dryness or cracking.

2.2 Label elements

Labelling (CLP)



Signal word: Danger



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Hazard statements: H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.
H412 Harmful to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P273 Avoid release to the environment.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P331 Do NOT induce vomiting.

P405 Store locked up.

P501 Dispose of contents/container to hazardous or special waste collection point.

Special labelling

Text for labelling: Contains:

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

2-ethylhexyl nitrate

2.3 Other hazards

Special danger of slipping by leaking/spilling product.

Avoid spills and leaks. Very small amounts contaminates drinking water.

Endocrine disrupting properties, Results of PBT and vPvB assessment:

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 01-2119456620-43-xxxx list no. 926-141-6 CAS 64742-47-8	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	70 - 80 %
	Asp. Tox. 1; H304. (EUH066).	
REACH 01-2119539586-27-xxxx EC No. 248-363-6 CAS 27247-96-7	2-ethylhexyl nitrate	< 30 %
	Acute Tox. 4; H302. Acute Tox. 4; H312. Acute Tox. 4; H332. Aquatic Chronic 2; H411. (EUH044). (EUH066).	
REACH 01-2119487289-20-xxxx	2-Ethylhexan-1-ol	< 10 %
EC No. 203-234-3 CAS 104-76-7	Acute Tox. 4; H332. Skin Irrit. 2; H315. Eye Irrit. 2; H319. STOT SE 3; H335.	

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



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SECTION 4: First aid measures

4.1 Description of first aid measures

General information: First aider: Pay attention to self-protection!

Never give an unconscious person anything through the mouth.

In case of inhalation: Move victim to fresh air; if necessary, provide artificial respiration or oxygen. If

unconscious place in recovery position and seek medical advice.

Following skin contact: Wash with generous amount of water and soap. Take off contaminated clothing and wash

it before reuse.

Seek medical attention if irritation persists.

After eye contact: In case of contact with eyes, rinse immediately 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 consult an ophthalmologist.

After swallowing: Never give anything by mouth to an unconscious person. Rinse mouth with water. Do not

induce vomiting. Danger of aspiration! Immediately get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Harmful if swallowed.

May be fatal if swallowed and enters airways.

4.3 Indication of any immediate medical attention and special treatment needed

Due to risk of aspiration gastric lavage may only be applied under endotracheal intubation. Subsequent observance for pneumonia and lung oedema.

It can take hours before symptoms of poisoning show up following exposure.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Foam, extinguishing powder, carbon dioxide

Extinguishing media which must not be used for safety reasons:

Water

5.2 Special hazards arising from the substance or mixture

Combustible.

May form dangerous gases and vapours in case of fire. Vapours form explosive mixtures with air. The vapours of the product are heavier than air. Beware of reignition.

Furthermore, there may develop: nitrogen oxides (NOx), Carbon monoxide and carbon

dioxide.

5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting protective

clothing.

Additional information: Cool endangered containers with water jetspray. Do not allow fire water to penetrate into

surface or ground water. If necessary notify appropriate authorities.



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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Eliminate all ignition sources if safe to do so. Provide adequate ventilation. Avoid breathing mist/vapours/spray.

Avoid contact with skin and eyes. Take off contaminated clothing and wash it before reuse. Wear appropriate protective equipment.

Keep unprotected people away.

6.2 Environmental precautions

Do not allow to penetrate into soil, waterbodies or drains. If necessary notify appropriate authorities.

6.3 Methods and material for containment and cleaning up

Larger quantities to be stemmed and pumped into tanks.

In case of greater quantities: Collect mechanically (use only explosion-proof equipment when pumping out).

Stop leak if safe to do so.

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance

with the local regulations (see section 13). Take action to prevent static discharges.

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 good ventilation and/or an exhaust system in the work area. Avoid generation of

vapours/aerosols. Avoid breathing mist/vapours/spray.

Avoid contact with skin and eyes. Take off contaminated clothing and wash it before

reuse. Wear appropriate protective equipment.

When using do not eat, drink or smoke. Wash hands before breaks and after work.

Precautions against fire and explosion:

Keep away from sources of ignition - No smoking.

Take action to prevent static discharges.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Store only in original container. Store container tightly closed in a dry and cool place.

Provide good ventilation.

Provide solvent resistant flooring. Protect from heat and direct sunlight.

Hints on joint storage: Keep away from food, drink and animal feedingstuffs.

Do not store together with: Strong oxidizing agents

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	Туре	Limit value
64742-47-8	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	Germany: DFG Kurzzeit	20 mg/m³ (Aerosol, respirable fraction)
		Germany: DFG Langzeit Germany: TRGS 900 Kurzzeit	5 mg/m³ (Aerosol, respirable fraction) 600 mg/m³ (hydrocarbons, aliphatic, C9-C14)
		Germany: TRGS 900 Langzeit	300 mg/m³ (hydrocarbons, aliphatic, C9-C14)
104-76-7	2-Ethylhexan-1- ol	Europe: IOELV: TWA	5,4 mg/m³; 1 ppm
		Germany: TRGS 900 Langzeit	5,4 mg/m³; 1 ppm (Aerosol and vapour)
108-94-1	Cyclohexanone	Europe: IOELV: STEL	81,6 mg/m³; 20 ppm (may be absorbed through the skin)
		Europe: IOELV: TWA	40,8 mg/m³; 10 ppm (may be absorbed through the skin)
		Germany: TRGS 900 Kurzzeit	80 mg/m³; 20 ppm (may be absorbed through the skin)
		Germany: TRGS 900 Langzeit	80 mg/m³; 20 ppm (may be absorbed through the skin)

DNEL/DMEL: Information about 2-ethylhexyl nitrate:

DNEL workers, dermal, long-term, systemic: 1 mg/kg bw/dw DNEL workers, dermal, long-term, local: 0,044 mg/cm² DNEL workers, inhalative, long-term, systemic: 0,35 mg/m³ DNEL consumers, dermal, long-term, systemic: 0,52 mg/kg bw/dw

DNEL consumers, dermal, long-term, local: 0,022 mg/cm² DNEL consumers, oral, long-term, systemic: 0,025 mg/kg bw/dw DNEL consumers, inhalative, long-term, systemic: 0,087 mg/m³

Information about 2-Ethylhexan-1-ol:

DNEL workers, dermal, long-term, systemic: 23 mg/kg bw/dw DNEL workers, inhalative, short-term, local: 106,4 mg/m³ DNEL workers, inhalative, long-term, systemic: 53,2 mg/m³ DNEL consumers, dermal, long-term, systemic: 11,4 mg/kg bw/dw DNEL consumers, oral, long-term, systemic: 1,1 mg/kg bw/dw DNEL consumers, inhalative, long-term, systemic: 2,3 mg/m³ DNEL consumers, inhalative, short-term, local: 53,2 mg/m³



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PNEC: Information about 2-ethylhexyl nitrate:

PNEC freshwater: 0,8 µg/L PNEC marine water: 0,08 µg/L PNEC sediment: 0,00074 mg/kg dw PNEC soil: 0,00019 mg/kg dw Information about 2-Ethylhexan-1-ol:

PNEC water (freshwater): 0,017 mg/L PNEC (marine water): 0,0017 mg/L PNEC intermittent release: 0,17 mg/L PNEC sewage treatment plant: 10 mg/L PNEC sediment (freshwater): 28 mg/kg

PNEC sediment (marine water): 0,028 mg/kg dw

PNEC soil: 0,047 mg/kg dw

PNEC Secondary poisoning: 55 mg/kg food

8.2 Exposure controls

Provide good ventilation and/or an exhaust system in the work area. Avoid generation of vapours/aerosols.

Personal protection equipment

Occupational exposure controls

Respiratory protection: Respiratory protection must be worn whenever the WEL levels have been exceeded.

Recommendation: Use filter type A2P2 according to EN 14387.

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Hand protection: Solvent resistant protective gloves (EN 374).

Glove material: Nitrile rubber, polyvinyl chloride

Breakthrough time: >240 min.

The breakthrough times determined in accordance with EN 374 Part III were not obtained

under practical conditions. The recommended maximum wearing time is 50% of

breakthrough time.

Eye protection: Tightly sealed goggles according to DIN EN ISO 16321-1:2022

Body protection: Use solvent-resistant protective clothing.

General protection and hygiene measures:

Avoid breathing mist/vapours/spray. Avoid contact with skin and eyes. Take off contaminated clothing and wash it before reuse. Wear appropriate protective equipment. When using do not eat, drink or smoke. Wash hands before breaks and after work.

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

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Odour: Characteristic
Odour threshold: Not determined
Melting point/freezing point: Not determined
Initial boiling point and boiling range: Not determined
Flammability: Not applicable

Upper/lower flammability or explosive limits: LEL (Lower Explosion Limit): Not determined

UEL (Upper Explosive Limit): Not determined

Flash point/flash point range: > 60 °C

Decomposition temperature: No data available pH: Not determined

Viscosity, kinematic: at 40 °C: 20,5 mm²/s

Solubility: Not determined

Water solubility: Insoluble

Partition coefficient: n-octanol/water:

Vapour pressure:

Density:

Not determined

Not determined

at 15 °C: 0,8538 g/mL

Vapour density: Not determined
Particle characteristics: Not applicable

9.2 Other information

Explosive properties: Product is not explosive.

Oxidizing characteristics: Product has no oxidizing effect.

Auto-ignition temperature:

Evaporation rate:

Not determined

Not determined

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 dangerous reactions with proper and specified storage and handling.

10.4 Conditions to avoid

Vapours can form explosive mixtures with air.

Protect from direct sunlight.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5 Incompatible materials

Strong oxidizing agents



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10.6 Hazardous decomposition products

No decomposition when used properly.

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): Acute Tox. 4; H302 = Harmful if swallowed.

ATEmix (calculated): 300 mg/kg <= ATE < 2.000 mg/kg

Acute toxicity (dermal): Based on available data, the classification criteria are not met.

ATEmix (calculated): 2.000 mg/kg < ATE <= 5.000 mg/kg

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.

ATEmix (calculated): > 20 mg/L Skin corrosion/irritation: Lack of data.

Serious eye damage/irritation: Lack of data.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Lack of data.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Lack of data.

Reproductive toxicity: Lack of data.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Lack of data. Specific target organ toxicity (repeated exposure): Lack of data.

Aspiration hazard: Asp. Tox. 1; H304 = May be fatal if swallowed and enters airways.

11.2 Information on other hazards

Endocrine disrupting properties:

No data available

Other information: Information about Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics:

LD50 Rat, oral: 15.000 mg/kg (OECD 401) LD50 Rabbit, dermal: > 5.000 (OECD 402)

LC50 Rat, inhalative: > 4.951 mg/m³/4 h (OECD 403 (vapours))

Information about 2-ethylhexyl nitrate: LD50 Rat, oral: > 10 mL/kg bw LDLo Rabbit, dermal: > 5 mL/kg bw Information about 2-Ethylhexan-1-ol: LD50 Rat, oral: > 2.000 mL/kg bw LC50 Rat, inhalative: > 6,2 mg/L/4 h

Symptoms

eye irritations, irritation to respiratory tract, headache, cough, dizziness, depression of

central nervous system In case of ingestion:

nausea, vomiting, pulmonary oedema, potential for chemical pneumonitis

After contact with skin: Repeated exposure may cause skin dryness or cracking.



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SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: Toxic to aquatic life with long lasting effects.

Information about Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics:

Fish toxicity:

NOELR Oncorhynchus mykiss: 0,17 mg/L/28 d (QSAR)

Daphnia toxicity:

NOELR Daphnia magna (Big water flea): 1,22 mg/L/21 d (QSAR)

Algae toxicity:

NOELR Pseudokirchneriella subcapitata (green algae): 1.000 mg/L/72 h (OECD 201)

Information about 2-ethylhexyl nitrate:

Fish toxicity:

LC50 Danio rerio (zebrafish): 1,88 mg/L/96 h

Daphnia toxicity:

EC50 Daphnia magna (Big water flea): > 12,6 mg/L/48 h

Algae toxicity:

EC50: > 12,06 mg/L/72 h

Information about 2-Ethylhexan-1-ol:

Fish toxicity:

LC50 Leuciscus idus: 17,1 mg/L/96 h (EC C.1)

Daphnia toxicity:

EC50 Daphnia magna (Big water flea): 39 mg/L/48 h (EC C.2)

Algae toxicity:

EC50 Scenedesmus subspicatus: 11,5 mg/L/72 h (EC C.3)

Water Hazard Class: 3 = highly hazardous to water (Self-classification (mixture; calculation rule).)

12.2 Persistence and degradability

Further details: Separation via oil separator.

Information about Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics:

Biodegradability: 69%/ 28 d. Product is readily biodegradable. (OECD 301F)

Information about 2-ethylhexyl nitrate:

Biodegradability: 0%/ 28 d. Product is not readily biodegradable.

Chemical oyxgen demand (COD): 100%/28 d. Product is readily biodegradable.

Dissolved Organic Carbon: > 95%/ 5 d. Product is readily biodegradable. (OECD 302B)

Effects in sewage plants: Information about 2-ethylhexyl nitrate:

EC50 activated sludge: > 300 mg/L/24 h

12.3 Bioaccumulative potential

Bioconcentration factor (BCF):

Information about 2-ethylhexyl nitrate: Bioconcentration factor (BCF): 1.332

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.



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12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

General information: Avoid spills and leaks. Very small amounts contaminates drinking water.

Do not allow to penetrate into soil, waterbodies or drains.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Recommendation: 13 07 03* other fuels (including mixtures)

14 06 03* other solvents and solvent mixtures

*= Evidence for disposal must be provided.

Dispose of waste according to applicable legislation. Do not allow to enter into

ground-water, surface water or drains.

Package

Recommendation: Empty containers may contain flammable product residues. Do not cut, weld, bore, burn

or incinerate emptied containers unless they have been cleaned and declared safe. Empty containers should be disposed of in accordance with local regulations.

SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID, IMDG, IATA-DGR:

not applicable

ADN: ID 9006

14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR:

Not restricted

ADN: ID 9006, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

14.3 Transport hazard class(es)

ADR/RID, IMDG, IATA-DGR:

not applicable

ADN: Class 9, Code: M12

14.4 Packing group

ADR/RID, ADN, IMDG, IATA-DGR:

not applicable



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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

Inland waterway craft (ADN)

Hazard label:

Transport permitted:

Equipment necessary:

T

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: 3 = highly hazardous to water (Self-classification (mixture; calculation rule).)

Technical guidance air: 5.2.5 Information on working limitations:

Observe employment restrictions for young people.

Observe employment restrictions for expectant or nursing mothers.

Further regulations, limitations and legal requirements:

The product is not subject to the Chemicals Prohibition Ordinance (ChemVerbotsV).

National regulations - EC member states

Further regulations, limitations and legal requirements:

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

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

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SECTION 16: Other information

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

H302 = Harmful if swallowed.

H304 = May be fatal if swallowed and enters airways.

H312 = Harmful in contact with skin.

H315 = Causes skin irritation.

H319 = Causes serious eye irritation.

H332 = Harmful if inhaled.

H335 = May cause respiratory irritation.

H411 = Toxic to aquatic life with long lasting effects. H412 = Harmful to aquatic life with long lasting effects. EUH044 = Risk of explosion if heated under confinement.

EUH066 = Repeated exposure may cause skin dryness or cracking.

Reason of change: Changes in section 1: Details of the supplier of the safety data sheet

General revision

Date of first version: 10.11.2020

Department issuing data sheet:

see section 1: Department responsible for information

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

Aquatic Chronic: Hazardous to the aquatic environment - chronic

AS/NZS: Australian Standards/New Zealand Standards

Asp. Tox.: Aspiration toxicity

ATE: Acute toxicity estimate BCF: Bioconcentration Factor

CAS: Chemical Abstracts Service

CFR: Code of Federal Regulations

CLP: Classification, Labelling and Packaging

DMEL: Derived minimal effect level

EC: European Community

EC50: Effective Concentration 50%

EN: European Standard

EQ: Excepted quantities

EU: European Union

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%

LDLo: Lethal dose low LEL: Lower Explosion Limit

MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships

NOEL: No Observed Effect Level

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 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



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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/wr90igmk

