



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

Revision date: 13/8/2019
Version: 10
Language: en-GB,IE
Date of print: 28/8/2020

Negative Photoresist AR-N 4240

Material number AR-N 4240

Page: 1 of 13

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

1.1 Product identifier

Trade name: Negative Photoresist AR-N 4240

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

General use: Intermediate for electronic industry

1.3 Details of the supplier of the safety data sheet

Company name: Allresist
Gesellschaft für chemische Produkte zur Mikrostrukturierung mbH
Street/POB-No.: Am Biotop 14
Postal Code, city: 15344 Strausberg
WWW: www.allresist.de
E-mail: info@allresist.de
Telephone: +49 (0)33 41-35 93-0
Telefax: +49 (0)33 41-35 93-29
Department responsible for information:
Frau Dr. Zimmermann, Email: produktion@allresist.de

1.4 Emergency telephone number

Telephone: +49 (0)33 41-35 93-0
Only available during office hours.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

Flam. Liq. 3; H226 Flammable liquid and vapour.
Eye Irrit. 2; H319 Causes serious eye irritation.
Carc. 2; H351 Suspected of causing cancer.
STOT SE 3; H335 May cause respiratory irritation.
(EUH019) May form explosive peroxides.
(EUH066) Repeated exposure may cause skin dryness or cracking.

2.2 Label elements

Labelling (CLP)



Signal word: **Warning**



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| | | |
|--------------------|--------|---|
| Hazard statements: | H226 | Flammable liquid and vapour. |
| | H319 | Causes serious eye irritation. |
| | H335 | May cause respiratory irritation. |
| | H351 | Suspected of causing cancer. |
| | EUH019 | May form explosive peroxides. |
| | EUH066 | Repeated exposure may cause skin dryness or cracking. |

| | | |
|---------------------------|----------------|--|
| Precautionary Statements: | P201 | Obtain special instructions before use. |
| | P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| | P261 | Avoid breathing vapours/spray. |
| | P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| | P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. |
| | P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| | P312 | Call a POISON CENTER/doctor if you feel unwell. |
| | P403+P235 | Store in a well-ventilated place. Keep cool. |

Special labelling

Text for labelling: Contains 1,4-Dioxane and 2-Methoxy-1-methylethyl acetate.

2.3 Other hazards

Potentially explosive mixtures may form if adequate ventilation is not provided.
Higher doses may lead to a narcotic effect.
Special danger of slipping by leaking/spilling product.

Results of PBT and vPvB assessment:

No data available

SECTION 3: Composition / information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Chemical characterisation: Mixture of the substances listed below with non-hazardous additions:



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Hazardous ingredients:

| Ingredient | Designation | Content | Classification |
|---|---------------------------------|-----------|---|
| REACH 01-2119475791-29-xxxx EC No. 203-603-9 CAS 108-65-6 | 2-Methoxy-1-methylethyl acetate | 30 - 60 % | Flam. Liq. 3; H226. |
| EC No. 204-661-8 CAS 123-91-1 | 1,4-Dioxane | 10 - 25 % | Flam. Liq. 2; H225. Eye Irrit. 2; H319. Carc. 2; H351. STOT SE 3; H335. (EUH019). (EUH066). |
| EC No. 270-931-7 CAS 68510-93-0 | Naphthoquinone diazide | < 10 % | Flam. Sol. 2; H228. Self-react. CD; H242. Skin Irrit. 2; H315. Eye Irrit. 2; H319. Aquatic Chronic 3; H412. |
| EC No. 214-540-1 CAS 1143-72-2 | 2,3,4-trihydroxybenzophenone | < 2 % | Skin Irrit. 2; H315. Eye Irrit. 2; H319. STOT SE 3; H335. |
| EC No. 215-293-2 CAS 1319-77-3 | Cresol-isomeric mixture | < 0.25 % | Acute Tox. 3; H301. Acute Tox. 3; H311. Skin Corr. 1B; H314. |

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

SECTION 4: First aid measures

4.1 Description of first aid measures

- General information: IF exposed or concerned: Get medical advice/attention.
If medical advice is needed, have product container or label at hand. First aider: Pay attention to self-protection!
Take off contaminated clothing and wash it before reuse.
- In case of inhalation: Move victim to fresh air, put at rest and loosen restrictive clothing. Seek medical aid in case of troubles.
- Following skin contact: Immediately clean with water and soap followed by thorough rinsing. Change contaminated clothing. 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 consult an ophthalmologist.
- After swallowing: Never give anything by mouth to an unconscious person. Rinse mouth immediately and drink plenty of water.
Do not induce vomiting. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Causes serious eye irritation. May cause respiratory irritation. Repeated exposure may cause skin dryness or cracking.

Higher doses may lead to a narcotic effect.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Decontamination.

In the event of pulmonary irritation treat initially with dexamethasone - dosing aerosol. Subsequent observance for pneumonia and lung oedema.



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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Extinguishing powder, water spray jet or carbon dioxide.
In case of large fires alcohol resistant foam or water spray jet.

Extinguishing media which must not be used for safety reasons:

Full water jet.

5.2 Special hazards arising from the substance or mixture

Flammable liquid and vapour.

With air, vapours form potentially explosive mixtures, which are heavier than air. Vapours may proceed on the ground over great distances and cause fire and backflashes.

May form dangerous gases and vapours in case of fire.

Furthermore, there may develop: nitrogen oxides, sulphur oxides, 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:

Hazchem-Code: •3Y

Heating will lead to pressure increase: Danger of bursting and explosion. Keep containers cool with water spray.

In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

Do not allow fire water to penetrate into surface or ground water.

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

Eliminate all ignition sources if safe to do so. Avoid contact with the substance. Avoid breathing vapours/spray. Ensure adequate ventilation, especially in confined areas.

If possible, eliminate leakage. Cordon off downwind area at risk and warn inhabitants.

Wear appropriate protective equipment. Keep unprotected people away.

6.2 Environmental precautions

Do not allow to enter into ground-water, surface water or drains. Danger of explosion!

In case of release, notify competent authorities.

6.3 Methods and material for containment and cleaning up

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).

Beware of reignition. Thoroughly clean surrounding area.

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

Additional information:

Use explosion-proof equipment and non-sparking tools/utensils.

Special danger of slipping by leaking/spilling product.



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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: Obtain special instructions before use. Provide adequate ventilation, and local exhaust as needed.

Avoid breathing vapours/spray. Do not get in eyes, on skin, or on clothing.

Wear appropriate protective equipment. Take off immediately all contaminated clothing and wash it before reuse.

Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation.

When handling large quantities, supply emergency spray.

Precautions against fire and explosion:

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Use grounding equipment. Use only explosion-protected equipment/instruments. Do not weld. Vapours can form explosive mixtures with air. May form explosive peroxides.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container tightly closed in a cool, well-ventilated place.

Keep container dry. Keep only in the original container.

Keep away from sources of ignition and heat. Protect from direct sunlight.

Store containers in upright position. Explosion protection required.

Qualified materials: steel, polypropylene.

Unsuitable materials: Copper, zinc.

Storage temperature: 14 °C up to 20 °C.

Hints on joint storage:

Do not store together with: strong oxidizing agents, acids, alkalis, reducing agent, perchlorate, triethylaluminium.

Keep away from food, drink and animal feedingstuffs.

7.3 Specific end use(s)

No information available.



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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values:

| CAS No. | Designation | Type | Limit value |
|-----------|---------------------------------|-------------------------|---|
| 108-65-6 | 2-Methoxy-1-methylethyl acetate | Europe: IOELV: STEL | 550 mg/m ³ ; 100 ppm (may be absorbed through the skin) |
| | | Europe: IOELV: TWA | 275 mg/m ³ ; 50 ppm (may be absorbed through the skin) |
| | | Great Britain: WEL-STEL | 548 mg/m ³ ; 100 ppm (may be absorbed through the skin) |
| | | Great Britain: WEL-TWA | 274 mg/m ³ ; 50 ppm (may be absorbed through the skin) |
| | | Ireland: 15 minutes | 550 mg/m ³ ; 100 ppm (may be absorbed through the skin) |
| | | Ireland: 8 hours | 275 mg/m ³ ; 50 ppm (may be absorbed through the skin) |
| 123-91-1 | 1,4-Dioxane | Europe: IOELV: TWA | 73 mg/m ³ ; 20 ppm |
| | | Great Britain: WEL-TWA | 73 mg/m ³ ; 20 ppm (may be absorbed through the skin) |
| | | Ireland: 8 hours | 73 mg/m ³ ; 20 ppm (may be absorbed through the skin) |
| 1319-77-3 | Cresol-isomeric mixture | Europe: IOELV: TWA | 22 mg/m ³ ; 5 ppm |
| | | Ireland: 8 hours | 22 mg/m ³ ; 5 ppm (may be absorbed through the skin) |

8.2 Exposure controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment. Explosion protection required.

Personal protection equipment

Occupational exposure controls

- Respiratory protection: When aerosols and vapours form: Use appropriate respiratory protection. Respiratory protection must be worn whenever the WEL levels have been exceeded. Use filter type A (= against vapours of organic substances) according to EN 14387.
- Hand protection: Protective gloves according to EN 374. Glove material: butyl caoutchouc (butyl rubber) Layer thickness: 0.70 mm. Breakthrough time: >480 min. Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
- Eye protection: Tightly sealed goggles according to EN 166.
- Body protection: Flame retardant, antistatic and chemical resistant protective clothing.



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General protection and hygiene measures:

Use only non-sparking tools. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

Obtain special instructions before use. Do not get in eyes, on skin, or on clothing.

Take off contaminated clothing and wash it before reuse.

Avoid breathing vapours/spray. When handling large quantities, supply emergency spray.

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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|--|---|
| Appearance: | Physical state at 20 °C and 101.3 kPa: liquid Colour: brown-red |
| Odour: | ester-like |
| Odour threshold: | No data available |
| pH value: | No data available |
| Melting point/freezing point: | No data available |
| Initial boiling point and boiling range: | 100 - 102 °C (1,4-Dioxane) |
| Flash point/flash point range: | 32 °C (c.c.) |
| Evaporation rate: | No data available |
| Flammability: | Flammable liquid and vapour. |
| Explosion limits: | LEL (Lower Explosion Limit): 2.00 Vol-% (1,4-Dioxane) UEL (Upper Explosive Limit): 22.00 Vol-% (1,4-Dioxane) |
| Vapour pressure: | at 20 °C: 36 hPa (1,4-Dioxane) |
| Vapour density: | 4.56 |
| Density: | at 20 °C: approx. 1 g/mL |
| Water solubility: | at 20 °C: partially soluble |
| Partition coefficient: n-octanol/water: | No data available |
| Auto-ignition temperature: | No data available |
| Decomposition temperature: | No data available |
| Viscosity, kinematic: | No data available |
| Explosive properties: | Vapours can form explosive mixtures with air. |
| Oxidizing characteristics: | No data available |

9.2 Other information

Additional information: No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Flammable liquid and vapour. Vapours can form explosive mixtures with air.

10.2 Chemical stability

Stable under recommended storage conditions.



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10.3 Possibility of hazardous reactions

Heating will lead to pressure increase: Danger of bursting and explosion.

May form explosive peroxides.

10.4 Conditions to avoid

Keep away from heat sources, sparks and open flames.

Protect from direct sunlight. Access of air and oxygen (Peroxide formation!)

10.5 Incompatible materials

Strong oxidizing agents, acids, alkalis, reducing agent, perchlorate, triethylaluminium.

Attacks many plastics and rubbers.

10.6 Hazardous decomposition products

No hazardous decomposition products when regulations for storage and handling are observed.

Thermal decomposition: No data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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): Lack of data.

ATEmix (calculated): ATE > 5000 mg/kg.

Acute toxicity (dermal): Lack of data.

ATEmix (calculated): 2000 mg/kg < ATE <= 5000 mg/kg.

Acute toxicity (inhalative): Lack of data.

ATEmix (calculated): ATE > 20 mg/L.

Skin corrosion/irritation: Lack of data.

Serious eye damage/irritation: Eye Irrit. 2; H319 = Causes serious eye irritation.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Lack of data.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Carc. 2; H351 = Suspected of causing cancer.

Reproductive toxicity: Lack of data.

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): Lack of data.

Aspiration hazard: Lack of data.



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Other information: Information about 2-Methoxy-1-methylethyl acetate:
LD50 Rat, oral: > 5000 mg/kg.
LD50 Rabbit, dermal: > 2000 mg/kg.
Information about 1,4-Dioxane:
LD50 Rat, oral: 4200 mg/kg.
LD50 Rabbit, dermal: 7858 mg/kg.
Information about Cresol-isomeric mixture:
LD50 Rat, oral: 1454 mg/kg.
LD50 Rabbit, dermal: 242 mg/kg.

Symptoms

Nausea, vomiting, headache, dizziness, CNS disorders, unconsciousness.
Absorption can lead to kidney and liver damage.
In case of inhalation:
depression of central nervous system, Cough and shortage of breath. Pulmonary edema is possible. Symptoms may occur with delay.
In case of ingestion: May be harmful if swallowed.
Other symptoms: Nausea, vomiting, depression of central nervous system.
After contact with skin:
Prolonged/repetitive skin contact may cause skin defatting or dermatitis. Danger of cutaneous absorption. May cause irritations.
After eye contact: Upon direct contact with eyes may cause burning, tearing, redness.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: Information about 2-Methoxy-1-methylethyl acetate:
Daphnia toxicity:
EC50 Daphnia magna (Big water flea): > 500 mg/L/48h.
Fish toxicity:
LC50 Oncorhynchus mykiss: 134 mg/L/96h (OECD 203)
Algae toxicity:
EC50 Pseudokirchneriella subcapitata (green algae): > 1000 mg/L/96h
Information about Naphthoquinone diazide:
Fish toxicity:
LC50 zebrafish 22 - 50 mg/L/96h.

12.2 Persistence and degradability

Further details: Biodegradability:
Information about 2-Methoxy-1-methylethyl acetate:
83 % /10 d (OECD 301 F). Easily bio-degradable
Information about 1,4-Dioxane:
< 5 %/28 d (OECD 301 E). Slightly degradable

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:
No data available

12.4 Mobility in soil

No data available



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12.5 Results of PBT and vPvB assessment

No data available

12.6 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: 16 03 05* = Organic wastes containing hazardous substances
* = Evidence for disposal must be provided.

Recommendation: Incinerate as hazardous waste according to applicable local, state, and federal regulations.

Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation. Handle empty containers with care. Incineration may cause explosion. 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

ADR/RID, IMDG, IATA-DGR:
UN 1993

14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR:
UN 1993, FLAMMABLE LIQUID, N.O.S.
(1,4-Dioxane and 2-Methoxy-1-methylethyl acetate)

14.3 Transport hazard class(es)

ADR/RID: Class 3, Code: F1
IMDG: Class 3, Subrisk -
IATA-DGR: Class 3



14.4 Packing group

ADR/RID, IMDG, IATA-DGR:
III

14.5 Environmental hazards

Marine pollutant: no



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14.6 Special precautions for user

Land transport (ADR/RID)

| | |
|--|---|
| Warning board: | ADR/RID: Kemmler-number 30, UN number UN 1993 |
| Hazard label: | 3 |
| Special provisions: | 274 601 |
| Limited quantities: | 5 L |
| EQ: | E1 |
| Contaminated packaging - Instructions: | P001 IBC03 LP01 R001 |
| Special provisions for packing together: | MP19 |
| Portable tanks - Instructions: | T4 |
| Portable tanks - Special provisions: | TP1 TP29 |
| Tank coding: | LGBF |
| Tunnel restriction code: | D/E |

Sea transport (IMDG)

| | |
|--|---------------|
| EmS: | F-E, S-E |
| Special provisions: | 223, 274, 955 |
| Limited quantities: | 5 L |
| Excepted quantities: | E1 |
| Contaminated packaging - Instructions: | P001, LP01 |
| Contaminated packaging - Provisions: | - |
| IBC - Instructions: | IBC03 |
| IBC - Provisions: | - |
| Tank instructions - IMO: | - |
| Tank instructions - UN: | T4 |
| Tank instructions - Provisions: | TP1, TP29 |
| Stowage and handling: | Category A. |
| Properties and observations: | - |
| Segregation group: | none |

Air transport (IATA)

| | |
|---|---|
| Hazard label: | Flamm. liquid |
| Excepted Quantity Code: | E1 |
| Passenger and Cargo Aircraft: Ltd.Qty.: | Pack.Instr. Y344 - Max. Net Qty/Pkg. 10 L |
| Passenger and Cargo Aircraft: | Pack.Instr. 355 - Max. Net Qty/Pkg. 60 L |
| Cargo Aircraft only: | Pack.Instr. 366 - Max. Net Qty/Pkg. 220 L |
| Special provisions: | A3 |
| Emergency Response Guide-Code (ERG): | 3L |

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

No data available

SECTION 15: Regulatory information

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

National regulations - Great Britain

| | |
|---------------|-------------------|
| Hazchem-Code: | •3Y |
| | No data available |



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National regulations - EC member states

Volatile organic compounds (VOC):

approx. 70 % by weight = 700 g/L

Labelling of packaging with <= 125mL content



Signal word:

Warning

Hazard statements:

H351

Suspected of causing cancer.

EUH019

May form explosive peroxides.

EUH066

Repeated exposure may cause skin dryness or cracking.

Precautionary Statements:

P201

Obtain special instructions before use.

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

SECTION 16: Other information

Further information

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

H225 = Highly flammable liquid and vapour.

H226 = Flammable liquid and vapour.

H228 = Flammable solid.

H242 = Heating may cause a fire.

H301 = Toxic if swallowed.

H311 = Toxic in contact with skin.

H314 = Causes severe skin burns and eye damage.

H315 = Causes skin irritation.

H319 = Causes serious eye irritation.

H335 = May cause respiratory irritation.

H351 = Suspected of causing cancer.

H412 = Harmful to aquatic life with long lasting effects.

EUH019 = May form explosive peroxides.

EUH066 = Repeated exposure may cause skin dryness or cracking.



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Abbreviations and acronyms:

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
OEL: Occupational Exposure Limit Value
AS/NZS: Australian Standards/New Zealand Standards
CAS: Chemical Abstracts Service
CFR: Code of Federal Regulations
CLP: Classification, Labelling and Packaging
CNS: Central Nervous System
DMEL: Derived minimal effect level
DNEL: Derived no-effect level
EC50: Effective Concentration 50%
EC: European Community
EN: European Standard
EU: European Union
IATA: International Air Transport Association
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%
LEL: Lower Explosion Limit
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
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
STOT SE: Specific target organ toxicity - single exposure
TLV: Threshold Limit Value
UN: United Nations
vPvB: Very persistent and very bioaccumulative
WEL: Workplace Exposure Limit
CNS: Central Nervous System

Reason of change: Changes in section 8: occupational exposure limit values (Germany)

Date of first version: 18/1/2011

Department issuing data sheet

Contact person: see section 1: Department responsible for information

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.