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

1.1 Product identifier

Trade name/designation

YP20-0000-0AL BergerBond Primer P

UFI: 9FAJ-K0KG-800U-RR2U

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

paint and/or paint-related material

Relevant identified uses

Reserved for industrial and professional use.

Uses advised against

Do not use for injecting or spraying.

1.3 Details of the supplier of the safety data sheet

Supplier

Berger-Seidle GmbH
Maybachstr. 2
67269 Grünstadt
Germany

Telephone: +49 6359 8005-0
E-mail: info@berger-seidle.de
Website: www.berger-seidle.de

Department responsible for information

E-mail (competent person) Sicherheitsdaten@berger-seidle.de

1.4 Emergency telephone number

0412 746 970
24 hr. emergency phone number

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Acute Tox. 4 inhalative	H332 Harmful if inhaled.
Carc. 2	H351 Suspected of causing cancer.
Eye Irrit. 2	H319 Causes serious eye irritation.
Resp. Sens. 1	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
STOT RE 2	H373 May cause damage to organs through prolonged or repeated exposure.
STOT SE 3 Irritation to respiratory tract	H335 May cause respiratory irritation.
Skin Irrit. 2	H315 Causes skin irritation.
Skin Sens. 1	H317 May cause an allergic skin reaction.

2.2 Label elements

Hazard pictograms

GHS07 GHS08

Signal word

Danger

Hazard statements

H332	Harmful if inhaled.
H351	Suspected of causing cancer.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H335	May cause respiratory irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.

Precautionary statements

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

P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P201	Obtain special instructions before use.
P260	Do not breathe vapours.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves and eye protection/face protection.
P284	In case of inadequate ventilation wear respiratory protection.
P302 + P352	IF ON SKIN: Wash with plenty of water and soap.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P312	Call a POISON CENTER if you feel unwell.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container to industrial incineration plant.

Hazard components for labelling

4,4'-Methylendiphenyldiisocyanat
Diphenylmethane diisocyanate, isomers and homologues
MDI-basiertes Polyisocyanat-Prepolymer
Methylendiphenyldiisocyanat
Methylendiphenyldiisocyanat

Other labelling

As from 24 August 2023 adequate training is required before industrial or professional use.

2.3 Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.
Persons already sensitised to diisocyanates may develop allergic reactions when using this product.

SECTION 3: Composition/information on ingredients.

3.2 Mixtures

Description

Isocyanathaltige Zubereitungen

Hazardous ingredients

CAS No. EC No. Index No.	Substance name REACH No.	weight-%
101-68-8 202-966-0 615-005-00-9	**4,4'-Methylendiphenyldiisocyanat** Skin Irrit. 2 H315 / Skin Sens. 1 H317 / Eye Irrit. 2 H319 / Acute Tox. 4 H332 / Resp. Sens. 1 H334 / STOT SE 3 H335 / Carc. 2 H351 / STOT RE 2 H373	35,0 < 50,0
67815-87-6 642-899-8 -	**MDI-basiertes Polyisocyanat-Prepolymer** Skin Irrit. 2 H315 / Skin Sens. 1 H317 / Eye Irrit. 2 H319 / Acute Tox. 4 H332 / Resp. Sens. 1 H334 / STOT SE 3 H335 / STOT RE 2 H373	35,0 < 50,0
5873-54-1 227-534-9 615-005-00-9	**Methylendiphenyldiisocyanat** Skin Irrit. 2 H315 / Skin Sens. 1 H317 / Eye Irrit. 2 H319 / Acute Tox. 4 H332 / Resp. Sens. 1 H334 / STOT SE 3 H335 / Carc. 2 H351 / STOT RE 2 H373	15,0 < 20,0
2536-05-2 219-799-4 615-005-00-9	**Methylendiphenyldiisocyanat** Skin Irrit. 2 H315 / Skin Sens. 1 H317 / Eye Irrit. 2 H319 / Acute Tox. 4 H332 / Resp. Sens. 1 H334 / STOT SE 3 H335 / Carc. 2 H351 / STOT RE 2 H373	0,500 < 1,00
9016-87-9 618-498-9 -	**Diphenylmethane diisocyanate, isomers and homologues** Acute Tox. 4 H302 / Skin Irrit. 2 H315 / Skin Sens. 1 H317 / Eye Irrit. 2 H319 / Resp. Sens. 1 H334 / STOT SE 3 H335 / Carc. 2 H351 / STOT RE 2 H373	0,500 < 1,00
4083-64-1	**4-isocyanatosulphonyltoluene; tosyl isocyanate**	0,050 < 0,100

223-810-8 615-012-00-7	Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / Resp. Sens. 1 H334 / STOT SE 3 H335	

Remark

Full text of H-phrases: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

Following inhalation

In case of irregular breathing or respiratory arrest provide artificial respiration.Remove casualty to fresh air and keep warm and at rest.

Following skin contact

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

Following ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

Self-protection of the first aider

First aider: Pay attention to self-protection!

4.2 Most important symptoms and effects, both acute and delayed

Symptoms

In all cases of doubt, or when symptoms persist, seek medical advice.

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

alcohol resistant foam, Carbon dioxide (CO2), Powder, spray mist, (water)

Unsuitable extinguishing media

Strong water jet

5.2 Special hazards arising from the substance or mixture

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

5.3 Advice for firefighters

Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Ventilate affected area. Do not breathe vapours.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

For containment

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).

For cleaning up

Clean using cleansing agents. Do not use solvents.

6.4 Reference to other sections

Safe handling: see section 7
Personal protection equipment: refer to section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling

Avoid contact with skin, eyes and clothes. Personal protection equipment: see section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

Advices on general occupational hygiene

When using do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

Storage class LGK10 - Combustible liquids that cannot be assigned to any of the above storage classes

Further information on storage conditions

Keep container tightly closed. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Store in a well-ventilated and dry room at temperatures between 10 °C and 35 °C.

7.3 Specific end use(s)

Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

No data available

Biological limit values

No data available

DNEL worker

CAS No.	Substance name	DNEL type	DNEL value
101-68-8	4,4'-Methylendiphenyldiisocyanat	Acute - inhalation, local effects	0.1 mg/m³
101-68-8	4,4'-Methylendiphenyldiisocyanat	Long-term – inhalation, local effects	0.05 mg/m³
4083-64-1	4-isocyanatosulphonyltoluene; tosyl isocyanate	Long-term – inhalation, systemic effects	3.24 mg/m³
4083-64-1	4-isocyanatosulphonyltoluene; tosyl isocyanate	Long-term - dermal, systemic effects	0.92 mg/kg bw/day
2536-05-2	Methylendiphenyldiisocyanat	DNEL long-term inhalative (local)	50 µg/m³
2536-05-2	Methylendiphenyldiisocyanat	DNEL acute inhalative (local)	100 µg/m³
5873-54-1	Methylendiphenyldiisocyanat	DNEL long-term inhalative (local)	50 µg/m³
5873-54-1	Methylendiphenyldiisocyanat	DNEL acute inhalative (local)	100 µg/m³

DNEL Consumer

CAS No.	Substance name	DNEL type	DNEL value
101-68-8	4,4'-Methylendiphenyldiisocyanat	Long-term – inhalation, local effects	0.025 mg/m³
101-68-8	4,4'-Methylendiphenyldiisocyanat	Acute - inhalation, local effects	0.05 mg/m³
4083-64-1	4-isocyanatosulphonyltoluene; tosyl isocyanate	Long-term – inhalation, systemic effects	0.8 mg/m³

4083-64-1	4-isocyanatosulphonyltoluene; tosyl isocyanate	Long-term - dermal, systemic effects	0.46 mg/kg bw/day
4083-64-1	4-isocyanatosulphonyltoluene; tosyl isocyanate	Long-term - oral, systemic effects	0.46 mg/kg bw/day
2536-05-2	Methylendiphenyldiisocyanat	DNEL long-term inhalative (local)	25 µg/m³
2536-05-2	Methylendiphenyldiisocyanat	DNEL acute inhalative (local)	50 µg/m³
5873-54-1	Methylendiphenyldiisocyanat	DNEL long-term inhalative (local)	25 µg/m³
5873-54-1	Methylendiphenyldiisocyanat	DNEL acute inhalative (local)	50 µg/m³

PNEC

CAS No.	Substance name	PNEC type	PNEC Value
101-68-8	4,4'-Methylendiphenyldiisocyanat	aquatic, intermittent release	37 µg/L
101-68-8	4,4'-Methylendiphenyldiisocyanat	aquatic, marine water	0.37 µg/L
101-68-8	4,4'-Methylendiphenyldiisocyanat	sediment, freshwater	11.7 mg/kg sediment dw
101-68-8	4,4'-Methylendiphenyldiisocyanat	sediment, marine water	1.17 mg/kg sediment dw
4083-64-1	4-isocyanatosulphonyltoluene; tosyl isocyanate	aquatic, intermittent release	0.3 mg/L
4083-64-1	4-isocyanatosulphonyltoluene; tosyl isocyanate	aquatic, marine water	0.003 mg/L
4083-64-1	4-isocyanatosulphonyltoluene; tosyl isocyanate	sewage treatment plant	0.4 mg/L
4083-64-1	4-isocyanatosulphonyltoluene; tosyl isocyanate	sediment, freshwater	0.172 mg/kg sediment dw
4083-64-1	4-isocyanatosulphonyltoluene; tosyl isocyanate	sediment, marine water	0.017 mg/kg sediment dw
2536-05-2	Methylendiphenyldiisocyanat	PNEC soil, freshwater	1 mg/kg
2536-05-2	Methylendiphenyldiisocyanat	PNEC aquatic, marine water	0.1 mg/L
2536-05-2	Methylendiphenyldiisocyanat	PNEC aquatic, freshwater	1 mg/L
2536-05-2	Methylendiphenyldiisocyanat	PNEC sewage treatment plant (STP)	1 mg/L
2536-05-2	Methylendiphenyldiisocyanat	PNEC aquatic, intermittent release	10 mg/L
5873-54-1	Methylendiphenyldiisocyanat	PNEC soil, freshwater	1 mg/kg
5873-54-1	Methylendiphenyldiisocyanat	PNEC aquatic, intermittent release	10 mg/L
5873-54-1	Methylendiphenyldiisocyanat	PNEC aquatic, marine water	0.1 mg/L
5873-54-1	Methylendiphenyldiisocyanat	PNEC sewage treatment plant (STP)	1 mg/L
5873-54-1	Methylendiphenyldiisocyanat	PNEC aquatic, freshwater	1 mg/L

8.2 Exposure controls

Provide good ventilation.This can be achieved with local or room suction.

Personal protection equipment

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Hand protection

Suitable material: NBR (Nitrile rubber)
Thickness of the glove material >= 0.4 mm
Breakthrough time >= 480 min

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin.
Recommended glove articles: EN ISO 374

Skin protection

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Eye/face protection

Eye glasses with side protection: EN 166

Body protection

When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn. Anti-static clothing including shoes are recommended.

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	brown
Odour	characteristic
pH at 20 °C	not applicable
Melting point/freezing point	not determined
Initial boiling point and boiling range	> 300 °C
	Source: 4,4'-Methylendiphenyldiisocyanat
Flash point	200 - undefined °C
flammability	not applicable
Lower explosion limit at 20°C	not determined
Upper explosion limit at 20°C	not determined
Vapour pressure at 20°C	0 mbar
Relative vapour density	not applicable
Density at 20 °C	1.20 kg/l
Water solubility at 20°C	practically insoluble
Partition coefficient: n-octanol/water	see section 12
Ignition temperature in °C	> 601 °C
	Source: 4,4'-Methylendiphenyldiisocyanat
Decomposition temperature	not determined
Viscosity at 20 °C	250 mm²/s
particle characteristics	not applicable

9.2 Other information

Solid content	100.0 %

SECTION 10: Stability and reactivity

10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

10.3 Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

10.4 Conditions to avoid

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7. Hazardous decomposition byproducts may form with exposure to high temperatures.

10.5 Incompatible materials

No further relevant information available.

10.6 Hazardous decomposition products

Decomposition products in case of fire: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Harmful if inhaled.

Diphenylmethane diisocyanate, isomers and homologues
LD50: oral (Rat): > 10,000 mg/kg

LD50: dermal (Rabbit): > 9,400 mg/kg

LC50: inhalative (Rat): = 0.49 mg/L (4 h)

MDI-basiertes Polyisocyanat-Prepolymer
LD50: dermal (Rabbit): > 9,400 mg/kg; (OECD 402)

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.

Overall assessment on CMR properties

Suspected of causing cancer.

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

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

Practical experience/human evidence

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: Headache, Dizziness, fatigue, amyosthenia, Dizziness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

11.2 Information on other hazards

Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

SECTION 12: Ecological information

12.1 Toxicity

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

Diphenylmethane diisocyanate, isomers and homologues
EC50 > 100 mg/L (3 h)

MDI-basiertes Polyisocyanat-Prepolymer
EC50 > 100 mg/L (3 h)

Acute (short-term) fish toxicity
4,4'-Methylendiphenyldiisocyanat
LC50: (Danio rerio (zebrafish)): > 100 mg/L (96 h)

Acute (short-term) toxicity to algae and cyanobacteria
EL50: (Desmodesmus subspicatus): > 100 mg/L (72 h)

NOELR: (Desmodesmus subspicatus): >= 100 mg/L (72 h)

Acute (short-term) toxicity to aquatic invertebrates
EC50 (Daphnia magna (Big water flea)): > 100 mg/L (48 h)

Algae toxicity
Diphenylmethane diisocyanate, isomers and homologues
NOEC = 1,640 mg/L (72 h)

MDI-basiertes Polyisocyanat-Prepolymer
NOEC = 1,640 mg/L (72 h)

Chronical earthworm toxicity (reproduction)
Diphenylmethane diisocyanate, isomers and homologues
EC50 (Earthworm): > 1,000 mg/kg (14 d)

MDI-basiertes Polyisocyanat-Prepolymer
EC50 (Earthworm): > 1,000 mg/kg (14 d)

Daphnia toxicity
Diphenylmethane diisocyanate, isomers and homologues
EC50 (Daphnia magna (Big water flea)): > 1,000 mg/L (24 h)

Fish toxicity
LC50: > 1,000 mg/L (96 h)

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water = 0.6 (4-isocyanatosulphonyltoluene; tosyl isocyanate)

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product/Packaging disposal

Do not empty into drains; dispose of this material and its container in a safe way.

Waste codes/waste designations according to EWC/AVV

160303* - inorganic wastes containing hazardous substances
* Hazardous waste according to Directive 2008/98/EC (waste framework directive).

Other disposal recommendations

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

SECTION 14: Transport information

14.1 UN number or ID number

not applicable

14.2 UN proper shipping name

Land transport (ADR/RID)

No dangerous good in sense of these transport regulations.

Sea transport (IMDG)

No dangerous good in sense of these transport regulations.

Air transport (ICAO-TI / IATA-DGR)

No dangerous good in sense of these transport regulations.

14.3 Transport hazard class(es)

not applicable

14.4 Packing group

not applicable

14.5 Environmental hazards

Land transport (ADR/RID)	not applicable
Sea transport (IMDG)	not applicable

14.6 Special precautions for user

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.
Advices on safe handling: see parts 6 - 8

14.7 Maritime transport in bulk according to IMO instruments

No transport as bulk according to IBC Code.

14.8 Additional information

Land transport (ADR/RID)

not applicable

Sea transport (IMDG)

not applicable

Air transport (ICAO-TI / IATA-DGR)

not applicable

SECTION 15: Regulatory information

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

National regulations

Observe in addition any national regulations!

Substance/product listed in the following inventories

Australian Inventory of Chemical Substances (AICS) - AU
Domestic Substances List (DSL) - CA
U.S. Toxic Substances Control Act (TSCA) - US

SECTION 16: Other information

List of relevant hazard statements and/or precautionary statements from sections 2 to 15

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
H373	May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).

Key literature references and sources for data

Data arise from reference works and literature.

Abbreviations and acronyms

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
OEL: Occupational Exposure Limit Value
BLV: Biological limit values
CAS: Chemical Abstracts Service
CLP: Classification, Labelling and Packaging
CMR: Carcinogenic, Mutagenic and Reprotoxic
DIN: German Institute for Standardization / German industrial standard
DNEL: Derived No-Effect Level
EAKV: European Waste Catalogue Directive
EC: Effective Concentration
EC: European Community
EN: European Standard
EU/EEA: European Economic Area
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
ICAO-TI: International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG Code: International Maritime Code for Dangerous Goods
ISO: International Organization for Standardization
LC: Lethal Concentration

LD: Lethal Dose
:
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD: Organisation for Economic Cooperation and Development
PBT: persistent, bioaccumulative, toxic
PNEC: Predicted No Effect Concentration
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
UN: United Nations
VOC: Volatile Organic Compounds
vPvB: very persistent and very bioaccumulative

Indication of changes

* Data changed compared with the previous version.